


# ST. PETERSBURG COLLEGE
# 2025 - 2026 COLLEGE CATALOG

P.O. Box 13489
St. Petersburg, FL 33733-3489
www.spcollege.edu

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# Welcome to St. Petersburg College – Home of the Titans!

At SPC, we are here to make sure our students succeed; our faculty and staff are well-equipped to offer the best educational experience possible; and our communities are enriched through education, career development, service and self-discovery.

We call it "TitanStrong" – our unified commitment to doing everything within our power to positively impact the lives of our students, our staff and our citizens. At SPC, these are more than just ideals. These are the values we live by each day to better our communities and provide the support our students need to realize their goals.

We accomplish these goals by providing support that is customized to each student's needs by offering academic programs in high-demand fields that lead to career opportunities that better the lives of our students and support economic prosperity. From the moment they become part of the Titan family, until the day they walk across the stage at graduation – diploma or certificate in hand – our students receive the tools and resources they need to thrive.

St. Petersburg College is truly a special place where opportunities are endless, hope is never deferred and dreams come true. For 90 years, our goal has been to help students achieve success and make the Tampa Bay area a better place.

We will continue to uphold this legacy and I invite you to join us. If your goal is to attain a degree, prepare for transfer to a university, get a job or advance in your current career – SPC is your college. If you are a business or community leader who wants to effect positive change, we welcome the opportunity to work with you.

I am proud of St. Petersburg College and am excited about its future. I hope you'll consider SPC as your first choice when thinking about your academic future or looking for opportunities to collaborate with us to strengthen our wonderful community.

**Dr. Tonjua Williams**
President




**MISSION STATEMENT**
The mission of St. Petersburg College is to empower our students and community to achieve success and economic mobility through academic excellence and engagement.

**VISION STATEMENT**
A premier college enriching and strengthening lives through a community of care.

**COLLEGE VISIONARY COMMITMENTS AND VALUES**
ACADEMIC EXCELLENCE
We will provide a high-quality education for our students by creating an innovative and engaging learning environment within a supportive, collegial culture.

ECONOMIC MOBILITY
We will provide opportunities for our students to be prepared for high-wage, high-need careers and professional growth, which will contribute to their economic success and improve the quality of life within our community as well as assist in ending generational cycles of poverty.

COMMUNITY ENGAGEMENT
We will invest in the well-being and growth of our community by serving as a leader, a convener, and a catalyst for positive change. We will maintain this commitment by creating strong partnerships, participating in civic learning and community engagement, and cultivating a community of care.

STUDENT SUCCESS
We believe students are the heart of SPC, and we align resources, decisions, and efforts to empower them to succeed.

INTEGRITY
We cultivate trust, transparency, and equity through personal and institutional ethics, empathy, and compassion.

COMMUNITY FOCUS
We foster and model the principles of inclusion, service, partnership, and social responsibility through community engagement ot build strong  relationships locally and abroad.

GROWTH AND EMPOWERMENT
We provide our students and employees clear pathways for personal and professional growth resulting in ongoing opportunities for leadership, engagement, and advancement.

COMMUNICATION
We build open and honest relationships to ensure inclusive dialogue with stakeholders to make informed and transparent decisions.

BELONGING
We are committed to ensuring that all stakeholders receive what they need to be successful through experiences, policies, practices, and behaviors that are just, fair, and inclusive for individuals to reach their full potential.

**STRATEGIC PLAN**
Our 2024 - 2027 Strategic Plan is focused on our pillars of Delivering Excellence in Teaching and Learning, Driving Economic Advancement and Strengthening our Community, and has been developed through a community of care.

# St. Petersburg College

*(Formerly known as St. Petersburg Junior College)*
**P.O. Box 13489**
**St. Petersburg, FL 33733-3489**
**https://www.spcollege.edu/**
**Phone: 727-341-4772**

**OFFICIAL COLLEGE CATALOG**
This is the official St. Petersburg College Catalog for the 2025 - 2026 academic year and is effective August 1, 2025 through July 31, 2026.

*This catalog is for information only and does not constitute a contract between the applicant/student and the college.*

*The college reserves the right to change, modify or alter without notice all fees, charges, tuition, expenses, and costs of any kind and further reserves the right to add or delete without notice any course offering or information in this catalog. The college further reserves the right to change any provision or requirement when such action becomes necessary.*

**ACCREDITATION**

St. Petersburg College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate and baccalaureate degrees. St. Petersburg College also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of St. Petersburg College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).

**EQUAL ACCESS EQUAL OPPORTUNITY**
https://www.spcollege.edu/friends-partners/about/belonging/equal-access-equal-opportunity
The Board of Trustees of St. Petersburg College affirms its equal opportunity policy in accordance with the provisions of the Florida Educational Equity Act and all other relevant state and federal laws, rules, and regulations. The college will not discriminate on the basis of race, color, ethnicity, religion, sex, age, national origin, marital status, sexual orientation, gender identity, genetic information, or against any qualified individual with disabilities in its employment practices or in the admission and treatment of students. Recognizing that sexual harassment constitutes discrimination on the basis of sex and violates this Rule, the college will not tolerate such conduct. Should you experience such behavior, please contact the Office of Culture and Engagement at 727-341-3261; by mail at P.O. Box 13489, St. Petersburg, FL 33733-3489; or by email at eaeo_director@spcollege.edu.

**CAMPUS SECURITY/CRIME INFORMATION**
https://www.spcollege.edu/friends-partners/safety-and-security
A copy of St. Petersburg College's Annual Security Report, which includes statistics for the previous three (3) years concerning reported crimes that occurred on campus; in certain off-campus buildings or property owned or controlled by St. Petersburg College; and on public property within or immediately adjacent to and accessible from the campus and which includes institutional policies concerning campus security, such as policies concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault and other matters, can be obtained by contacting either the Associate Provost's Office, Site Administrator's Office, the Campus Security Office or the Office of Human Resources.

Security officers are on duty at all sites when the college is open for classes. In addition, some Security Dispatch and some sites are staffed from 1-5 p.m. on Sundays. Officers patrol the college grounds, conduct safety inspections, investigate and document incidents, and help provide a safe environment. Officers also will provide

safety escorts to and from your office or vehicle, assist motorists locked out of their vehicles, jump-start vehicles, and more. Call security dispatch at 727-791-2560 and an officer will be sent to assist you. In an emergency, call 911 first, and then notify security.

*From the beginning, St. Petersburg College has been a leader. It was Florida's first two-year college (founded in 1927) as well as the state's first community college to offer bachelor's degrees (2002). Today, SPC is one of 28 State Colleges, and served as a model for incorporating bachelor's degree programs into traditional two-year institutions.*

# Explore the history of St. Petersburg College

In the 1920s, people in St. Petersburg began to talk about the need for an institution of higher learning to provide job skills training to local residents of modest means. At the time, higher education only was available to those who could afford to travel to distant cities and stay there long enough to complete their studies.

So in September 1927, with the backing of local business and political leaders, Florida's first two-year institution of higher learning, St. Petersburg Junior College, opened in an unused wing of the then-new St. Petersburg High School. Enrollment: 102, taught by a faculty of 14. The first college president was George Lynch who served also as Superintendent of Public Instruction, St. Petersburg Public Schools.

There were 48 members of the first graduating class in 1929. More than half received state teaching certificates. At the time, the need for certified teachers in Pinellas County was great and growing and a two-year college diploma was all that was needed for certification.

In 1931, the college, which was now in its own building overlooking Mirror Lake in downtown St. Petersburg, became fully accredited and has remained so to this day.

## Growth prompts opening of St. Petersburg/Gibbs Campus

Upon President Reed's death in 1944, Vice President Roland Wakefield took his place. While serving as SPJC's president, Wakefield became president of the Florida Association of Colleges and Universities. He retired from the college in 1950 and was replaced by SPJC's Dean of Men, Michael Bennett. During his tenure, which lasted until his retirement in 1977, Dr. Bennett served on numerous state and national boards including as president of the Southern Association of Junior Colleges and as secretary of the Commission on Higher Education for the Southern Association of Colleges and Schools.

In 1965, the predominately African-American Gibbs Junior College merged with St. Petersburg Junior College under Dr. Bennett's leadership. Also that year, a new campus on Drew Street opened in Clearwater. By 1970, SPJC classes also were offered at an SPJC Center in Tarpon Springs.

## Dr. Carl Kuttler, Jr., President 1976-2009

Dr. Carl M. Kuttler, Jr., SPJC's longest serving president, accepted the position upon Dr. Bennett's retirement in April 1976. Dr. Kuttler retired in December 2009 after overseeing the openings of the Health Education Center in 1981, the Allstate Center (public safety) in 1988, the Seminole Campus in 1998, the Downtown (2005) and Midtown (2003) centers and the transforming of St. Petersburg Junior College into the baccalaureate degree-granting St. Petersburg College in 2001. In 1998, the American Association of Community College Trustees named Dr Kuttler the most outstanding community college president in the nation.

Upon Dr. Kuttler's retirement in December 2009, Dr. Thomas Furlong, former senior vice president for Baccalaureate Programs and the University Partnership Center, was appointed by the Board of Trustees to serve as interim president during a nationwide presidential search.

## Dr. William D. Law, Jr., President 2010-2017

Since his arrival in 2010, Dr. Law's focus was on student achievement, faculty enhancements and workforce education and training. Learn to Earn, a reasonably-priced certificate program for the unemployed or under employed in need of skills enhancement, helped students complete job training in fields such as health care, office work and law enforcement in as little as 10 weeks.

Also under his leadership, SPC's Institute for Strategic Policy Solutions opened on the Seminole Campus. The institute will have a number of missions, all tied to improving public policy and preparing students for careers in the public sector.

In 2010, the college and Gibbs High School entered into a partnership designed to help raise academic standards at the struggling high school and better prepare its students for college work. SPC offered resources, including facilities and faculty and student tutoring, to Gibbs students.

A Center for Excellence in Teaching and Learning (CETL) was formed in 2010 to help enhance learning opportunities for students and faculty on all campuses.

In 2012, the college started The College Experience, an initiative aimed at preparing students to succeed in their courses and finish what they start.

Dr. Law retired in July 2017.

## Tonjua Williams, Ph.D., President 2017-

Tonjua Williams, Ph.D. became St. Petersburg College's seventh president on July 3, 2017. A St. Petersburg native, Dr. Williams began her tenure with the college in 1986, rising through the ranks in a variety of academic and administrative roles.

Prior to becoming President, Dr. Williams was Senior Vice President for Student Services from 2013 to 2017. She has served in nearly every area of the college: Provost, Associate Provost, Director of Special Programs, Program Coordinator, Academic Advisor, Recruiter, Senior Accounting Clerk and Adjunct Faculty.

Dr. Williams earned a Ph.D. in Higher Education Administration from Barry University, a master's degree in Counselor Education from University of South Florida, and bachelor's degrees in Business Administration and Humanities from Clearwater Christian College.

## Decades of academic and community investment

These initiatives are some of the more recent ones established at SPC. Over the years, the college has invested its resources in the Leepa-Rattner Museum of Art on the Tarpon Springs Campus, a Music Center with two Steinway concert grand pianos and a Heissler pipe organ on the St. Petersburg/Gibbs Campus, the Palladium Theater in downtown St. Petersburg, an EpiCenter in Largo with a Collaborative Lab built in partnership with Pinellas County to support higher education and business development, St. Petersburg Collegiate High School and an Early College Program for academically- focused teenagers, a University Partnership Center that offers baccalaureate, master's and doctor's degrees from 15 universities in Florida and across America, state-of-the-art classroom technology at all nine learning sites, online learning opportunities, inter-collegiate sports for men and women, and advanced education and training for faculty and staff including travel opportunities.

## Douglas R. Jamerson Midtown Center

In 2015, SPC opened the new 49,000-square-foot, state-of-the-art campus located in the heart of St. Petersburg's historic Midtown neighborhood. The new center expands on the educational opportunities previously housed in the original 10,000-square-foot facility that opened in 2003 just blocks from the new center. Graphic art installations tell the story of the rich history of Midtown and 22nd Street - affectionately nicknamed "The Deuces."

## Chris Sprowls Workforce Innovation Hub

In 2024, this 10,000 square foot state-of-the-art space, located at the Tarpon Springs Campus, honors the vision of Chris Sprowls, the former Speaker of the Florida House of Representatives, of cultivating a skilled workforce by

fostering skill development, encouraging collaboration, and contributing to the growth of local manufacturing businesses.

The Innovation Hub — that will promote economic growth, entrepreneurship, and innovation — serves as a central location for manufacturing, creativity, and collaboration, aligning with the mission of SPC to provide workforce development and educational opportunities.

### Notable alumni

Among the school's more prominent alumni are two NASA astronauts, Nicole Stott and Samuel Durrance; Bob Carroll, a writer and creator of the I Love Lucy television show; aquanaut Sylvia Earle; movie actress Carroll Baker; rock musician Jim Morrison of The Doors; Wendell Ware, a creator and leader in the development of microfilm, microfiche and ultra fiche; Howard Johnson, who played on the New York Mets World Championship team; Lobo (Roland Kent Lavoie), pop singer; David Muse, who played flute and sax with Firefall and the Marshall Tucker Band; numerous authors; artists; judges; lawyers; political leaders; and local and national business and civic leaders.

St. Petersburg College continues its long tradition of excellence wrought by dedicated faculty and visionary leadership. Affordable, accredited and comprehensive in its offerings, SPC continues to be responsive to community needs and committed to student success.

## CAMPUS LOCATIONS

**Allstate Center**
3200 34th St. S
St. Petersburg, FL 33711

**Bay Pines STEM Center**
4723 Bay Pines Terrace
St. Petersburg, FL 33708

**Clearwater Campus**
2465 Drew St.
Clearwater, FL 33765

**Downtown Center**
President's Office
Alumni Association
Foundation
244 Second Ave. N
St. Petersburg, FL 33701

**Epi Center**
13805 58th St. N
Clearwater, FL 33760

**Epi Services**
Human Resources
14025 58th St. N

Clearwater, FL 33760

## Health Education Center

7200 66th St. N
Pinellas Park, FL 33781

## Midtown Center

**Cecil B. Keene, Sr. Student Achievement Center**
1048 22nd St. S
St. Petersburg, FL 33712

**Douglas L. Jamerson, Jr. Midtown Center**
1300 22nd St. S
St. Petersburg, FL 33712

## Seminole Campus

9200 113th St. N
Seminole, FL 33772

## St. Petersburg/Gibbs Campus

6605 Fifth Ave. N
St. Petersburg, FL 33710

## Tarpon Springs Campus

600 E. Klosterman Rd.
Tarpon Springs, FL 34689

ST. PETERSBURG COLLEGE LEADERSHIP

**PRESIDENT**
Dr. Tonjua Williams



Click here to learn more about President Tonjua Williams.

**BOARD OF TRUSTEES**
The SPC Board of Trustees is comprised of five positions:
1. Jason Butts, Chair
2. Katherine E. Cole, Vice Chair
3. Thomas Kidwell
4. Deveron M. Gibbons
5. Vacant

SPC President Tonjua Williams – serves as secretary to the Board of Trustees



Kidwell, Cole, Gibbons, Butts

Trustees emeriti of St. Petersburg College (formerly known as St. Petersburg Junior College) since the Board of Trustees was created in 1968 are:
Arthur Libby Albers*, Bridgette Bello, Philip Benjamin*, Evelyn Bilirakis, Stanley A. Brandimore*, Terrence E. Brett, L. Chauncey Brown*, Janice C. Buchanan Swartz, Kenneth P. Burke, Laurel J. Chadwick, Pamela Jo Davis, Robert J. Fine Jr., Bill Foster, William W. Gilkey*, Thomas H. Gregory, Lacy R. Harwell*, Paul Hatchett*, James E. Hendry*, Ann G. Hines*, H. W. Holland*, W. Richard Johnston, Susan D. Jones, Cecil B. Keene*, Joseph H. Lang (designated Chairman Emeritus), Beatrice Lewis*, E. C. Marquardt*, J. Patrick McElroy, Demos A. Megaloudis*, Gary Megaloudis, Tim Noth, Dale Oliver, Reina C. Pollack, Nathan Stonecipher, Kenneth T. Welch, Lauralee Westine, Mac J. Williams*, Robert C. Young.

(*Deceased)

ST. PETERSBURG COLLEGE FOUNDATION

## St. Petersburg College Foundation, Inc.

The St. Petersburg College Foundation, Inc. is a 501 (c)(3) corporation chartered under Florida statutes, serving as a direct-support organization of St. Petersburg College. In support of the vision and mission of SPC, the Foundation accepts and prudently manages all gifts including cash, securities, property, bequests and trust or life-income arrangements.

The St. Petersburg College Foundation, Inc. promotes the practice of philanthropy through partnerships with the community for the advocacy of higher education in general and specifically at SPC, for (1) the provision of student scholarships, awards and grants, (2) the advancement of teaching and instructional services, (3) new and improved facilities and (4) state-of-the-art technology.

**BOARD OF DIRECTORS**
The Foundation is guided by a Board of Directors composed of professional, business and civic leaders who are vitally interested in higher education in the greater Tampa Bay area.

**Officers:**

- Joshua Bomstein, Chair
- Johnny V. Boykins-Rothey, Vice Chair
- Mike Meigs, Treasurer *
- Jesse A. Turtle, Scretary *
- Steven R. Shepard, Esq., Immediate Past Chair

**Board Members:**

- Nikki Barfield, LCSW
- Joseph G. Blanton
- Bertha Burruezo, Esq.
- R. Michael "Mike" Carroll
- Teresa Hibbard
- Thomas Kidwell
- Kenneshia Martin
- Marcel Maslowski
- Dr. Jacqueline Munro
- Bemetra Simmons
- Ann Taylor
- Richard S. Warshof
- Dr. Tonjua Williams *

- Richard B. Winning
- Andrew Winkler

**Directors Emeriti:**

- Kenneth P. Cherven
- Alfred T. May
- Bill McDloud

** ex-officio member*

GENERAL INFORMATION

**TEXTBOOKS**

https://www.spcollege.edu/financial-aid/receiving-financial-aid/paying-for-your-textbooks

SPC makes shopping for textbooks easy. After you register for classes on MySPC, you can see the required and recommended textbooks you need. The International Standard Book Number (ISBN) is provided so that you can be sure you are getting the exact educational content needed for your courses, no matter where you choose to shop.

**Barnes & Noble College**

St. Petersburg College bookstores are under the management of Barnes & Noble College. Students can choose from new and used books, textbook rentals and from a rapidly expanding selection of eTextbooks. Use your class schedule to order your books in person at your campus bookstore or learn more about shopping for textbooks online at Barnes & Noble and paying for textbooks with the Book Line of Credit and the SPC textbook credit.

**First Day Book Program**

First Day is a partnership between SPC, Barnes & Noble, and the Publishers to bring course materials to students on the first day of class through Canvas at a discounted rate. For more information https://www.spcollege.edu/financial-aid/receiving-financial-aid/paying-for-your-textbooks/first-day-book-program

**SPC BookSwap**

Trade textbooks with other SPC students. Use your student ID and password to login to SPC's BookSwap at https://www.spcollege.edu/financial-aid/receiving-financial-aid/paying-for-your-textbooks.

**Florida's Zero Textbook Cost Course Indicator Definition and Overview**

What does Zero Textbook Cost mean?

Zero Textbook Cost (ZTC) refers to the cost of course materials required by students to succeed in that course. The ZTC course indicator is used as a course designation to inform students that there are no textbook costs required with the course. These ZTC courses are permitted to use library resources or other high-quality, freely available resources as long as there are zero costs for the students' access and use of these resources.

What does Open Educational Resources mean?

Open Educational Resources (OER) are created by applying open use rights through a content license. Depending on the license terms, OER may permit personal use, sharing, adapting, distributing, and/or remixing of the content. To put it simply: OER = Free + Permission to Use.

What is the difference between ZTC and OER?

Zero Textbook Cost (ZTC) courses use course materials that are available at no cost to the student. ZTC courses may rely on a variety of no cost content, including open educational resources (OER), library resources, and other high quality, free to access resources to eliminate textbook costs for all students in that section.

*Note: not all OER courses are also ZTC courses. In some instances, although the course may use all OER materials, there may be a cost for the students to access the platform with those OER materials.*

Link for additional information: https://dlss.flvc.org/florida-zero-textbook-cost-course-indicator

**PERSONAL PROPERTY**

Students who bring personal property to the college and/or leave personal property at the college do so at their own risk as the college provides no insurance in the event the student's personal property is stolen or damaged while on college premises.

**PHOTOGRAPHY**

All students grant permission to the college, its agents, and staff, to use video and photographs taken of them for SPC promotional/advertising materials without charge. No promises have been made and no consideration is involved for their use. If a student does not want SPC to use video and photographs of himself/herself then he/she must inform the associate provost on his/her home campus.

**INSURANCE**
The college does not provide accident or health insurance for students. Optional student insurance may be obtained from a college- approved insurance company at the student's expense. Forms are available in the Student Life and Leadership offices. Certain courses require the student to obtain liability insurance for which a special fee is charged.

**Professional Liability Insurance for Students**
Those students in a program of study leading toward a degree or certificate in a health care profession who will be providing health care services to a patient or clinic under the direction of a faculty member of the college as a part of the course of study are required to have student professional liability (malpractice) insurance for which a fee is charged. Students in the health programs are also required to carry clinical accidental insurance, which must be obtained through the college and for which a special fee will be charged. The professional liability coverage does not protect the student in the event of illness or injury.

**LIBRARIES**
https://www.spcollege.edu/current-students/learning-resources
Your student ID is your library card and can be used to check out materials or use any of the services the libraries provide. Once you have your student ID, search for materials online or visit one of the libraries. For campus locations, hours, and a list of available services, visit www.spcollege.edu/libraries.

Our libraries are staffed by professional librarians, career library employees, student workers, and volunteers to help students. College librarians teach and provide assistance with research projects, APA/MLA citation, and finding information for course projects. Students can also get help by searching our FAQ database, calling any of the SPC libraries, or using Ask a Librarian to chat, text or email your questions. For 24/7 access, visit https://www.spcollege.edu/current-students/learning-resources.

**Public Library and College Library in One**
Joint-use libraries on the Clearwater, St. Petersburg/Gibbs, and Seminole campuses showcase two unique partnerships between SPC and the cities of Clearwater, St. Petersburg, and Seminole. Each library provides users with the benefits of a public library and a college library in one.

**TUTORING**
https://www.spcollege.edu/current-students/learning-resources
Trouble with your classes? SPC provides two ways you can get help through tutoring. SPC tutoring offers appointment scheduling and walk-in help for accounting, math, writing, Computer, Science, research, health programs. Working either one-on-one or in groups, SPC tutors can also help students with homework, understand mistakes on tests, memorize facts and formulas, and basic study skills.

For help outside normal business hours, SPC offers students access to on demand tutoring through Tutor.com.

**TITAN HUB and MYSPC STUDENT PORTAL**
Titans Login
Navigating Titan Hub - Student Guide
The Titan Hub is SPC's internal landing page. Once you sign in on the SPC website, you will be redirected to the Titan Hub. Here you can access any sites, resources, applications, and event for SPC. It is your one-stop shop to access allthat you need at SPC.
MySPC is the college's secure portal for your academic information and can be accessed through the Titan Hub. MySPC makes it fast and easy to find information. You'll find helpful links and video tutorials to improve your online experience and guide you as you apply to SPC, register for classes, manage your financial aid, and check student email. Build your individual learning plan and chart your progress.
How can we help? Student Support

**ADVISING**
https://www.spcollege.edu/current-students/student-affairs/student-support-resources/advising
Our advisors can help you achieve your academic and personal goals by walking you through college entrance procedures, evaluating placement test scores, reviewing new student orientation information, assisting with course selection, assisting with long-range academic planning, reviewing general education and degree requirements,

reviewing how many courses you should take, and reviewing transfer options.

**CAREER SERVICES**
https://www.spcollege.edu/current-students/student-affairs/student-support-resources/career-services
SPC Career Services can help you select a career direction and appropriate program of study. We can help with everything from personal assessment, career exploration and decision-making, choosing a matching SPC major, preparing a job search strategy, developing a resume and cover letters, interview preparation and salary negotiation.

**STUDENT GOVERNMENT ASSOCIATION (SGA)**
https://www.spcollege.edu/current-students/student-affairs/student-life/student-life-and-leadership
Represent your fellow students by joining the Student Government Association. SGA members voice the interests, concerns and needs of students in campus and college decisions to college administration and state legislators. Each SGA belongs to the Florida College System Student Government Association (FCSSGA), which serves as the representative voice of Florida Colleges throughout Florida.

Each year, SGA members can travel to the annual FCSSGA state convention and regional meetings and leadership retreats across Florida. As a currently enrolled SPC student, you can vote for who represents you as an officer in the SGA.

**ONLINE EDUCATION**
https://www.spcollege.edu/future-students/why-spc/flexible-options-for-you/online-programs-at-spc
Our online programs offers hundreds of accredited online college courses in dozens of majors — plus online student support services at your fingertips. Look for online courses as you register in MySPC.

**STUDENT RIGHT TO KNOW**
https://www.spcollege.edu/current-students/student-affairs/student-right-to-know
Keeping students informed and student rights.

**RESIDENTS OUTSIDE OF FLORIDA AND PROFESSIONAL LICENSURE**
St. Petersburg College is approved to offer online and in-person academic programs outside of the state of Florida through its participation in the National Council for State Authorization Reciprocity Agreement (NC-SARA). NC-SARA is a voluntary, regional approach to state oversight of postsecondary distance education. Institutions that are a member of NC-SARA are authorized to provide online education to students from all SARA states.

St. Petersburg College (SPC) offers various programs designed to prepare students to sit for licensure in Florida. Licensure in other states may vary. Non-Florida residents should contact the licensing agency in the state they hope to be licensed in to determine whether or not the SPC program will fulfill these requirements, or the academic program of interest who can provide you with the agency's contact information. SPC is unable to determine whether programs meet all requirements in any other states besides Florida.

Any student who feels that a person, institution, state, agency, or other organization or entity operating under the provisions of the SARA Policy Manual has violated the policies set forth in the SARA Policy Manual or of laws, standards or regulations incorporated in the SARA Policy Manual should file a complaint using the College's Complaint Process. If the outcome of the College's Complaint Process does not satisfy your need, then within two years of the incident about which the complaint is made, you can appeal the decision through the Florida State Authorization Reciprocity Agreement (FL-SARA).

**MAXIMUM STUDENT LOAD**
More information is available on this topic at the Board of Trustees website.

College Rule 6Hx23-4.161

The maximum student load is eighteen (18) semester hours of credit in each of Terms I and II and twelve (12) semester hours of credit in Term III. Under extenuating circumstances, students may, with the consent of a counselor or advisor, take additional credit hours.

All credit courses show a specified number of credits that generally indicate the amount of work required. A 3-credit lecture/discussion course normally meets 3 clock hours per week during the 16-week terms. More clock hours per week are required during the abbreviated terms such as the Express and Summer. Despite some variation in the out-of-class work required to succeed in individual classes, 2 hours outside of class for every hour in class is the normal expectation. That means that a student taking a 15-credit hour course load (during Terms I or II) will need to devote a total of 45 hours each week to his/her academic effort.

Dedicated students who are working half-time often succeed with a 12 – 17-hour load but few students are able to work full- time and succeed in a full-time course load. Students who are working, or have other similar obligations, should consider the following scale as they make decisions about their schedules:

| ***Maximum Student Load*** | | | | |
|---|---|---|---|---|
| **Employment** | **Recommended Academic Load** | | | |
| No more than hours per week | Term I or II 16 weeks | Express Term 12 weeks | Summer Term III 10 weeks | Express Term 6 weeks |
| 20 hours | 12 – 15 credits | 9 – 12 credits | 6 – 10 credits | 4 – 6 credits |
| 30 hours | 9 – 12 credits | 6 – 9 credits | 3 – 6 credits | 3 – 5 credits |
| 40 hours | 6 – 9 credits | 3 – 6 credits | 3 – 5 credits | 2 – 4 credits |

**COPYRIGHT REGULATIONS**

St. Petersburg College supports and encourages its employees and students to develop scholarly and creative works and educational materials and products (intellectual property) which may be subject to copyright, trademark, or patent regulations and which may generate royalty income. Also, ownership in a work prohibits another's copying of the work or distributing copies of the work unless one or more of the following apply:

- the work was never copyrighted
- the copyright in the work has expired
- the work lies in the public domain
- the copying and/or distribution falls within "fair use" privileged under Section 107 of the Copyright Act of 1976
- the copying and/or distribution falls under certain library or archival copying privileged under Section 108 of the Copyright Act of 1976
- the copyright owner has given appropriate permission

The College's rules and procedures are designed to balance, protect, and define the respective rights of St. Petersburg College, its employees and students regarding intellectual property and copyright laws.

Refer to Board of Trustees' Rules and Procedures 6Hx23-1.35, P6Hx23- 1.35, P6Hx23-1.351 for copyright policies and a description of published and unpublished materials that may be subject to copyright regulations. https://web.spcollege.edu/botrules/

VETERAN AFFAIRS

www.spcollege.edu/current-students/student-affairs/student-support-resources/veterans-services

Veterans Services specialists will help ease your transition in starting, continuing or resuming your educational pursuit and offer assistance with Department of Veterans Affairs (VA) educational benefits. Veterans Services Centers provide specialized services to veterans, eligible dependents, active duty servicepersons and members of the Selected Reserve. Currently, more than 1,500 student veterans have made SPC their choice – with more student veterans joining our ranks every day.

**U.S. Department of Veterans Affairs (VA) Pending Payment Compliance**

In accordance with Title 38 US Code 3679 subsection (e), SPC adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33) or Vocational Rehabilitation & Employment (Ch. 31) benefits, while payment to the institution is
pending from the VA. Our policy regarding Title 38 US Code 3679 subsection (e) is as follows:

In accordance with Title 38 US Code 3679 subsection (e), SPC will defer tuition 90 days out from the first day of the semester for any GI Bill recipient who has turned in COE/Eligibility Documents. SPC will further move due dates on a case-by-case basis when payment from the VA has been confirmed to be delayed. During the time in which SPC awaits payments from the VA directly (Chapter 31 and Chapter 33) students will not be assessed late fees, will not be required to secure alternate or additional funding, will not be denied access to resources and will not be prevented from enrollment.

FINANCIAL AID

https://www.spcollege.edu/financial-aid

**Not sure how to pay for college?**
Financial Assistance Services provides guidance on grants, scholarships, student employment, and loans to help pay college expenses. Below is a step-by-step list of all things financial aid – how to apply, receive and keep it. Download a PDF version at spcollege.edu/financial-aid. You can also see up-to-date information on a range of topics, upcoming important dates and announcements or watch instructional videos.

**Financial Aid Eligibility**
Students must have a high school diploma or GED certificate. To qualify for financial aid, you need to be a degree-seeking student in a financial aid eligible program. Some certificate programs of 16 credit hours or more qualify. Federal financial aid can only apply to the first 30 remedial credit hours attempted. Visit spcollege.edu/financialaideligibility.

**FSA ID (Federal Student Aid ID)**
An FSA ID is your electronic signature for federal student aid and gives you online access to your U.S. Department of Education records. You must create an FSA ID username and password before beginning to complete the FAFSA. It only takes a few minutes, allows some data to autofill and could prevent processing delays. Visit studentaid.gov.

If you are a dependent student, at least one parent will be a contributor and must create an FSA ID. If your parents filed their tax return as *Married Filing Separate*, then both parents will need to create a FSA ID. If your parent does not have a social security number, they still must create an FSA ID. If you are married and filed *Married Filing Separate*, your spouse will be a contributor and must create an FSA ID.

**FAFSA (Free Application for Federal Student Aid)**
This is your application for financial aid at SPC. **SPC's School Code is 001528**. Priority consideration is given to students who apply by May 1. The earlier you apply, the more funds you could be eligible to receive. The information you provide determines whether you qualify for federal, state, and college grants; some scholarships; federal work-study and student loans. Visit studentaid.gov.

**Apply for funds you don't have to repay**
Scholarships require completion of applications from scholarship donors. Completion of the FAFSA is recommended for scholarships that are awarded based on need. Don't let a letter of recommendation or essay requirement stop you. Visit spcollege.edu/scholarships.

Student employment positions are available at all campus sites and off-campus all year round. Apply early for limited positions in Federal Work Study, America Reads, America Counts, or as a Student Assistant. Visit spcollege.edu/studentemployment.

**Check your Financial Aid Status and MySPC student email regularly**
Login to Tital Hub and then select MySPC. Use your SPC email and password to log in. If you are unable to log in, contact the Help Desk at 727-341-4357.

Two to three business days after you submit the FAFSA, review your **Action Items** to see requested documents, if any. Respond to all requests in a timely manner. Most documents can be submitted online. **Do not submit**

**original documents unless you are requested to do so.** If you are asked to submit tax documents, you may get **official IRS Transcripts** from **irs.gov**. **Your file will not be complete until all requested documentation is received and processed by our office.**

**All Official Communications Are Sent To Your MYSPC Student EMAIL.** This is not the same as your Canvas email account. You may choose to forward your MySPC student email to your personal email. It is also your responsibility to keep your home mailing address and phone number current on the Personal Information tab.

**Calculating your Financial Aid Award package**
Only classes that are within your current degree program are considered when determining your federal financial aid package. Federal and other types of financial aid are based on financial need. Using the data collected on the FAFSA, financial need is calculated as follows:

Cost of Attendance less Student Aid Index = Financial Need

We use this formula and individual fund requirements to determine your financial aid awards. All financial aid, excluding loans, is accepted on your behalf.

You must report all offers of financial aid not previously reported such as federal and state grants, scholarships, waivers, fellowships, assistantships, certain Veteran benefits, Americorps, Federal Work Study, loan, and any other educational benefits paid to cover expenses because of enrollment or any changes to your financial situation to Financial Assistance Services. In addition, post-enrollment awards, graduation awards, athletic grant-in-aid funds, books, travel expenses and per diem, stipends, gift cards, prizes, etc. must be included as part of a student's financial aid package.

Financial aid award packages are projected at full-time enrollment and will be adjusted based on actual enrollment. If you change your class schedule, the amounts and types of financial aid awards are subject to change.
Visit spcollege.edu/financial-aid-award-package.

If you attend less than full-time during any term, your Cost of Attendance and financial aid award amounts will be adjusted. This could result in a reduction or removal of loans or other financial aid. Visit spcollege.edu/reduction-or-removal-of-financial-aid.

**Determine if student loans are necessary**
REMEMBER: Student loans must be repaid!! Don't borrow student loans if you don't have to. If you need to borrow, borrow only what you need. To qualify for student loans, you must be enrolled in at least six credit hours required for your current degree program. Log in to Titan Hub and then select MySPC to review your awards and decline, reduce or accept the loans offered to you. This step must be completed before your loan will be applied toward your student account. If you are a first-time student loan borrower, you must complete Loan Entrance Counseling and a Master Promissory Note. Stay in contact with your student loan servicer to stay on top of what you owe and remember that on-time repayment will help you establish a good credit rating. Visit spcollege.edu/loans.

**Book Line of Credit (BLOC)**
If your financial aid exceeds your tuition and fee charges, you may charge up to $800 in books, course materials, supplies and equipment at campus bookstores. The amount of your BLOC is based on projected financial aid that will be refunded at the end of the third week of your classes. The bookstore will have your information on file and will apply your available BLOC charges against your student account. Visit spcollege.edu/book-line-of-credit.

**First Day Book Program**
The First Day Book Program brings course materials to students on the first day of class at a discounted rate. To use the program, log in to Canvas, select the course materials and follow the steps to access your eBook and labs. SPC will apply your First Day Book Program charges to your student account. You can opt out and purchase materials elsewhere if you choose. The opt out deadline is one week after the first day of class. If you opt out, you are responsible for purchasing the materials for the class. Visit spcollege.edu/first-day-book-program.

**Receiving funds**
You begin receiving financial aid refunds at the end of the third week of classes of the earliest session in which you are enrolled. If you are enrolled only in Express Session or Second 8 Week Session, your financial aid will be

refunded at the end of the third week of that session. It is your responsibility to understand the attendance policies of all classes in which you are enrolled. Visit spcollege.edu/receiving-financial-aid.

**Student employment pay**
Student employees will receive their paychecks bi-weekly through the mail or directly deposited into their bank accounts.Visit spcollege.edu/student-employment.

**Tuition and Fees**
If you are considered an out-of-state student, you may submit documentation to be reviewed for in-state tuition charges. Visit spcollege.edu/residency.

If you do not drop a class before the Last Date to Drop with a Refund, you will owe the college tuition and fees for that class. Visit spcollege.edu/last-date-to-drop-with-a-refund.

SPC deducts tuition, fees, the Book Line of Credit and the First Day Book Program charges from your financial aid award amount. If your award amount is less than the cost of tuition, fees, the Book Line of Credit and the First Day Book Program, you must pay the difference by the tuition due date.

Any Federal, State, institutional or external source of financial aid, as well as any student fee refunds, will be applied to any outstanding balance on my account, including past-due balances, bookstore charges and other financial obligations, in accordance with the rules of those funds. Visit spcollege.edu/receiving-financial-aid.

**Disbursements and Refunds**
Disbursements occur when SPC receives federal, state, or other funds on your behalf. These funds are disbursed to your student account to cover your tuition, fees, the Book Line of Credit and First Day Book Program charges.

Loan disbursements – If your loan is for fall and spring, it will be disbursed in two payments, one half during the third week of your fall enrollment and one half during the third week of your spring enrollment. If your loan is for one term only, the entire loan will be disbursed in one payment during the third week of your enrollment for that term.

Refunds occur when the amount of the disbursements received on your behalf is greater than, or in excess of, the amount owed for tuition, fees, the Book Line of Credit and First Day Book Program charges. If a charge is added to your student account after your refund has been released, you will be responsible for paying the balance. Visit spcollege.edu/financial-aid-refunds.

**BankMobile Disbursements**
Excess funds are refunded to the refund option choice you make with BankMobile Disbursements, a technology solution, powered by BMTX, Inc. Visit https://disbursements.bmtx. com/refundchoices/.

**Satisfactory Academic Progress (SAP)**
Financial aid recipients must be moving through their current academic degree or certificate program at a reasonable rate and be making progress toward their degree to continue receiving aid. Your Completion Ratio and Maximum Time Frame are calculated to determine a "reasonable rate." Your Minimum Cumulative Financial Aid Program GPA is calculated to determine "making progress." Visit spcollege.edu/sap.

**Withdrawing from classes**
Withdrawing from a class or all of your classes can have serious financial and academic consequences. Make sure you understand the consequences of this decision. If you receive federal financial aid, withdrawing from all classes may require repayment of unearned funds. It can affect your Satisfactory Academic Progress status and future enrollment. In addition, eligibility for future financial aid can be affected, regardless of which school you attend. The date you withdraw from a class is also a factor in determining your grade for that class. Before making changes to your enrollment, speak with a Financial Aid Counselor or an Academic Advisor to understand the impact of your decision. If you have a balance due from dropping or withdrawing from a class or classes or withdrawing from all classes, you must pay that balance. You may be sent to collections for failure to repay. Visit spcollege.edu/withdrawals.

***It's* MY FUTURE!**
St. Petersburg College provides a FREE, easy-to-use use loan management and planning tool, **IonTuition™**. Activate your account through MySPC to get immediate access to a personalized profile of your federal student loan and grant information. See your loan status, balance, payment amount, due date, interest

information, and servicer contacts. You can elect to receive loan status notifications via email or text. A live chat option is available.

IonTuition™ is also available to help with any questions regarding repayment of your student loans. Talk with an experienced counselor about repayment and postponement options at 855-693-4932. If you receive a call from IonTuition™, they are calling on behalf of SPC. Visit spcollege.edu/its-my-future.

**Contact Us**
Financial Assistance Services is here to help! Ask questions using the most convenient method for you. Go to spcollege.edu/askfas and choose from:

- **PHONE** – Call 727-791-2485
- **PETE** – Go to any financial aid webpage and ask our virtual assistant a question 24/7/365
- **ONLINE** – Submit your question using the link in the "Online" tab
- **VIRTUAL** – Speak with a live SPC financial aid counselor in the "Virtual" tab
- **ON CAMPUS** – Find campus hours and locations in the "On Campus" tab

TUITION, FEES & PAYMENT

**Tuition***
Lower division courses
In-state, per credit hour .....$111.75
Out-of-state, per credit hour .....$386.90
Upper division courses
In-state, per credit hour .....$122.70
Out-of-state, per credit hour .....$425.79
* Tuition and fees are subject to change. The most recent rates are posted at spcollege.edu/tuition.

Paying your tuition is the last step in registration. It is important that you pay your fees by the due date listed on your fee schedule to avoid being dropped from your classes. Log in to MySPC for your due date and payment amount. Select the My Account tile for additional information and payment options.
• Residency for Tuition Purposes
The amount of tuition you pay is based on in-state and out-of-state fees. To be considered for in-state fees, you must submit specific documentation by the first day of classes. Learn more at spcollege.edu/residency. If you have specific questions about residency, contact residencyquestions@spcollege.edu.
• How to pay tuition
You can pay your tuition online or on campus by visiting spcollege.edu/tuition. If you decide to pay online, please use a browser other than Safari, as this browser is not compatible for online payments.
• Tuition Payment Plan
SPC offers an interest-free tuition payment plan that is affordable and convenient. To use this payment plan, you pay a percentage up front and an enrollment fee of $30-$40, depending on when you apply. Visit spcollege.edu/payment-plan.
• Florida PrePaid Tuition Plan
SPC accepts Florida PrePaid (FPP) college funds. SPC students are no longer required to request that FPP be processed. Please allow one business day after registering for classes for your FPP to be processed and to check your balance due. Visit spcollege.edu/florida-prepaid.
• Refund Policy
Review details on SPC's refund policy at spcollege.edu/tuition-refunds.

**Financial Aid**
Get more details on the Financial Aid tab above and at spcollege.edu/financial-aid.

ACCESSIBILITY SERVICES

https://www.spcollege.edu/current-students/student-affairs/student-support-resources/accessibility-services

St. Petersburg College (SPC) is committed to providing quality education and services to all students who study

here. Our focus is your success. To help you achieve success, Accessibility Services works with students, faculty, and staff to provide academic accommodations to ensure equal access for all students with disabilities.

**Who is eligible?**
As a student at SPC with a documented disability, you may be eligible for reasonable accommodations. If you think you have a disabling condition and would like to meet with one of our Accessibility Services Coordinators to learn more about reasonable accommodation in college, please contact an Accessibility Services Coordinator and they will explain how to get proper testing or assessment.

**What services are available?**
Appropriate, reasonable accommodations are offered based on documented needs. Accommodations may include:

- Assistive technology
- Early registration
- Sign language interpreters
- Captioning services
- Classroom furniture modifications

**What are the benefits?**
Students who use these services tend to have:

- Higher GPAs
- Fewer withdrawals from courses
- Better graduation rates

**Request Services**
See an Accessbility Services Coordinator and bring your documentation. Schedule your appointment as early as possible so that accommodations can be made in a timely manner. All information will be kept confidential.

**ADMISSIONS**
https://www.spcollege.edu/future-students/admissions

**TUITION, FEES, AND FINANCIAL AID**
https://www.spcollege.edu/financial-aid/tuition-and-fees

**ENTRY TESTING AND PLACEMENT**
https://www.spcollege.edu/future-students/admissions/testing/college-placement-test

**REGISTRATION**
https://www.spcollege.edu/future-students/admissions/registration

**RESIDENCY**
https://www.spcollege.edu/future-students/admissions/residency

**TRANSCRIPTS**
https://www.spcollege.edu/future-students/admissions/transcripts

**FUTURE STUDENTS**
https://www.spcollege.edu/future-students

**CURRENT STUDENTS**
https://www.spcollege.edu/current-students

**STUDENT SERVICES**
https://www.spcollege.edu/current-students/student-affairs

**STUDENT HANDBOOK**
https://www.spcollege.edu/documents/current-students/student-handbook.pdf

## NOTICE REGARDING POLICIES FOUND IN THIS CATALOG AND CHANGES TO POLICIES

Students need to review Board of Trustees (BOT) Rules and Procedures to https://web.spcollege.edu/botrules/ determine complete policies. Students may review BOT Rules online, at the library or at provosts' office.

BOT main page
Rules and Procedures
Record of Changes

This catalog is for information only and does not constitute a contract between the applicant/student and the college.

The college reserves the right to change, modify or alter without notice all fees, charges, tuition, expenses, and costs of any kind and further reserves the right to add or delete without notice any course offering or information in this catalog. The college further reserves the right to change any provision or requirement when such action becomes necessary.

## Important Dates for the 2025 - 2026 academic year*

**Dates are subject to change - see Detailed Academic Calendar for updates**

| | FALL TERM 2025 (655) |
|---|---|
| **FIRST & LAST DAY OF TERM/SESSION** | |
| Regular, Online (full term) | 8/18/2025 - 12/12/2025 |
| Eight Week 1 (8W1) | 8/18/2025 - 10/10/2025 |
| Weekend | 8/22/2025 - 12/7/2025 |
| Fall Express (12 weeks) | 9/15/2025 - 12/12/2025 |
| Eight Week 2 (8W2) | 10/13/2025 - 12/12/2025 |
| **ADMISSIONS** | |
| Application deadline for non-health programs, including Bachelor's programs | Based on student's first term or session |
| Health programs | Varies by program |
| International students' deadline to apply with assurance of requirements | 6/1/2025 |
| **REGISTRATION -** registration is not allowed after the first class meeting | |
| View class offerings in MySPC | 4/7/2025 |
| View textbook and General Education Core course syllabi (full, 8W1) | 7/4/2025 |
| Special programs | 4/21/2025 |
| Registration (All sessions) | 4/23/2025 |
| Senior citizen/state employee (Regular) (full, 8W1, Weekend) (See tuition waivers) | 8/15/2025 |
| **TUITION/FINANCIAL AID** | |
| Tuition/Fee payment due full, 8W1, weekend | 7/16/2025 |
| 12 week Express | 9/5/2025 |
| 8W2 | 10/3/2025 |
| FAFSA priority deadline date | 5/1/2025 |
| **GRADUATION** | |
| Commencement | TBA |
| **NO CLASSES FOR STUDENTS** | |
| Discovery Day | 10/28/2025 |
| Winter Break (students may take classes via Winter session during this time) | 12/13/2025 - 1/19/2026 |
| **COLLEGE CLOSED** | |
| Labor Day | 9/1/2025 |
| Veterans Day | 11/11/2025 |
| Thanksgiving break | 11/23/2025 - 11/29/2025 |
| Winter break | 12/20/2025 - 1/4/2026 |

| WINTER SESSION | |
|---|---|
| First/Last day of classes | 12/15/2025 - 1/2/2026 |
| Registration | 10/29/2025 |

*In accordance with Board Rule (6Hx23-1.29)

## Important Dates for the 2025 - 2026 academic year*

**Dates are subject to change - see Detailed Academic Calendar for updates**

| FIRST & LAST DAY OF TERM/SESSION | SPRING TERM 2026 (660) |
|---|---|
| Regular, Online (full term) | 1/20/2026 - 5/15/2026 |
| Eight Week 1 (8W1) | 1/20/2026 - 3/13/2026 |
| Weekend | 1/23/2026 - 5/10/2026 |
| Spring Express (12 Weeks) | 2/16/2026 - 5/15/2026 |
| Eight Week 2 (8W2) | 3/23/2026 - 5/15/2026 |
| **ADMISSIONS** | |
| Application deadline for non-health programs, including Bachelor's programs | Based on student's first term or session |
| Health programs | Varies by program |
| International students' deadline to apply with assurance of requirements | 10/1/2025 |
| **REGISTRATION -** registration is not allowed after the first class meeting | |
| View class offerings in MySPC | 10/13/2025 |
| View textbook and General Education Core course syllabi | 12/6/2025 |
| Special programs | 10/27/2025 |
| Registration (All sessions) | 10/29/2025 |
| Senior citizen/state employee (full term, 8W1, Weekend) (See tuition waivers) | 1/16/2026 |
| **TUITION/FINANCIAL AID** | |
| Tuition/Fee payment due (full, 8W1, Weekend) | 12/17/2025 |
| 12 week Express | 2/6/2026 |
| 8W2 | 3/13/2026 |
| FAFSA priority deadline | 10/1/2025 |
| **GRADUATION** | |
| Commencement | TBA |
| **COLLEGE CLOSED** | |
| Martin Luther King, Jr.'s birthday | 1/19/2026 |
| Spring break | 3/15/2026 - 3/21/2026 |
| Spring holiday | 4/3/2026 - 4/5/2026 |

| WINTER SESSION | |
|---|---|
| First/Last day of classes | 12/15/2025 - 1/2/2026 |
| Registration | 10/29/2025 |

*In accordance with Board Rule (6Hx23-1.29)

## Important Dates for the 2025 - 2026 academic year*

**Dates are subject to change - see Detailed Academic Calendar for updates**

| | SUMMER TERM 2026 (665) |
|---|---|
| **FIRST & LAST DAY OF TERM/SESSION** | |
| Regular, Online (10 weeks) | 5/26/2026 - 7/31/2026 |
| Eight Week 1 (8W1) | 5/26/2026 - 7/17/2026 |
| Weekend | 5/30/2026 - 7/26/2026 |
| Summer Express (6 weeks) | 6/22/2026 - 7/31/2026 |
| Eight Week 2 (8W2) | 6/8/2026 - 7/31/2026 |
| **ADMISSIONS** | |
| Application deadline for non-health programs, including Bachelor's programs | Based on student's first term or session |
| Health programs | Varies by program |
| International students' deadline to apply with assurance of requirements | 3/1/2026 |
| **REGISTRATION -** registration is not allowed after the first class meeting | |
| View class offerings in MySPC | 3/16/2026 |
| View textbook and General Education Core course syllabi | 4/11/2026 |
| Special programs | 3/30/2026 |
| Registration (All sessions) | 4/1/2026 |
| Senior citizen/state employee (Regular) (See tuition waivers) | 5/22/2026 |
| **TUITION/FINANCIAL AID** | |
| Tuition/Fee payment due (full, 8W1, Weekend) | 4/22/2026 |
| 6 week Express | 6/12/2026 |
| 8W2 | 5/29/2026 |
| FAFSA priority deadline date | 2/1/2026 |
| **GRADUATION** | |
| No Summer Commencement, all Summer graduates will be invited to the Fall Commencement | |
| **COLLEGE CLOSED** | |
| Memorial Day | 5/25/2026 |

| | |
|---|---|
| Juneteenth | 6/19/2026 |
| Independence Day | 7/3/2026 |

*In accordance with Board Rule (6Hx23-1.29)

## DETAILED ACADEMIC CALENDAR

https://www.spcollege.edu/academic-calendar

## GENERAL EDUCATION CORE DIGITAL BADGES

Florida Statute (F.S.) (s)1007.25, requires public postsecondary institutions to award students a nationally recognized digital badge upon completion of general education core courses that demonstrate career readiness, beginning with students who initially enter a postsecondary institution in fall 2022 for the 2022-2023 academic year. As of Fall 2022 there is one (1) currently identified digital badge:

**Fundamentals of Written Communication**

- Effective written communication is defined as the ability to communicate ideas, information, and perspectives clearly, adapting a message to different audiences and situations, and using the appropriate style to convey meaning in various written contexts.
- Students will automatically earn this digital badge upon completion of ENCX101 (i.e. ENC 1101), or a course for which ENCX101 is a prerequisite (i.e. ENC 1102), with a grade of "C" or better.

The identification and implementation of additional general education core digital badges will be under the guidance of the State Board of Education (SBOE) and the Board of Governors.

## BACHELOR DEGREES, ASSOCIATE DEGREES, CERTIFICATES AND DIPLOMAS

St. Petersburg College offers many options to meet your educational needs. Consider your career goals and start planning your path today. Visit https://www.spcollege.edu/future-students/degree-options for more information. You can browse by areas of study or by degree type.

## ASSOCIATE IN ARTS (A.A.) DEGREE

The Associate in Arts (A.A.) degree serves as a foundational academic credential for students pursuing a bachelor's degree. This program emphasizes a Liberal Arts education and can be completed in approximately two years. Students are required to complete 36 credits of General Education coursework, which provides a broad academic base across core disciplines.

- The A.A. curriculum develops essential knowledge, skills, and abilities—preparing students to become informed, independent thinkers.
- Coursework fulfills the lower-division requirements necessary for seamless transfer to a baccalaureate program.

In Florida's statewide 2+2 system, students must complete an A.A. degree prior to transferring into a bachelor's program at a public university or state college. St. Petersburg College (SPC) supports this pathway by offering more than 90 tailored transfer advising tracks, helping students navigate their academic journeys with confidence—whether continuing at SPC or enrolling elsewhere in the Florida higher education system.

Transfer advising Pathways can be found at https://www.spcollege.edu/future-students/degree-options/associate-in-arts-degrees-and-transfer-plans.

## ASSOCIATE IN SCIENCE (A.S.) DEGREE

The Associate in Science (A.S.) degree is a two-year academic program designed to equip students with the practical skills and knowledge needed for immediate entry into the workforce upon graduation. St. Petersburg College (SPC) offers more than 40 dynamic A.S. programs aligned with high-demand industries and competitive salary opportunities.

- The A.S. degree includes over 40 credit hours of career-specific coursework, complemented by a minimum of 15 General Education credits, as outlined in Florida Statute 1007.25.
- General Education courses span five core areas: Communication, Mathematics, Social Sciences, Humanities, and Natural Sciences.

SPC's A.S. programs are thoughtfully designed to provide seamless articulation into bachelor's degree programs within the same field, offering students a clear pathway for continued academic and professional advancement.

**APPLIED TECHNOLOGY DIPLOMAS (A.T.D.)**
The Applied Technology Diploma (A.T.D.) consists of a course of study that is less than 60 credit hours and leads to employment in a specific occupation. An A.T.D. may be completed for either technical credit (clock hours) or for college credit and is part of an A.S. degree.

**APPLIED TECHNOLOGY CERTIFICATES (A.T.C.)**
The Applied Technology Certificate (A.T.C.) consists of a course of study between 9 and 45 college credits and may consist of both upper and lower division coursework. It is designed for students who have already completed a two-year A.S. program and are seeking advanced, specialized preparation in a particular career field to supplement their A.S. degree.

**CERTIFICATES**
College Credit Certificates (CT) consist of college credit courses that prepare students for entry-level employment in specific career fields or for career advancement. These certificates range from 12 to 34 credits and can be completed in one year or less. College Credit Certificates are designed to be part of an A.S. degree program and are conferrable milestones while pursuing completion of an A.S. program. Occasionally, a CCC may be offered without an accompanying A.S. and completed as a stand-alone certificate.

**BACHELOR OF SCIENCE (B.S.) DEGREE**
SPC Bachelor of Science (B.S.) degrees have a scientific emphasis and are designed to meet workforce demands in high-needs areas. Baccalaureate programs consist of at least 120 credits of upper and lower level coursework and prepare students for advanced positions in specialized career fields. For more information on St. Petersburg College's baccalaureate admissions requirements, refer to https://www.spcollege.edu/future-students/degree-options/bachelors-degrees.

**BACHELOR OF APPLIED SCIENCE (B.A.S.) DEGREE**
Our Bachelor of Applied Science (B.A.S.) degrees are designed for students who have already completed an Associate in Science degree and wish to continue their undergraduate education. Students with A.A. degrees may be required to complete lower division technical work while those with A.S. degrees will complete their remaining General Education coursework as part of their baccalaureate program. For more information on St Petersburg College's baccalaureate admissions requirements, refer to https://www.spcollege.edu/future-students/degree-options/bachelors-degrees.

**WRITING REQUIREMENTS**
State Board of Education Rule 6A-10.30 (previously Gordon Rule) requires students completing the Associate in Arts Degree to produce written work in six (6) semester hours of English coursework and six (6) semester hours of additional coursework in which the student is required to demonstrate college-level writing skills through multiple assignments.

**COMPUTATION REQUIREMENTS**
State Board of Education Rule 6A-10.30 (previously Gordon Rule) requires students completing the Associate in Arts Degree to complete six (6) semester hours of mathematics coursework at the level of college algebra or higher. St. Petersburg College's General Education Requirements require completion of at least 3 credits of coursework from the designated core list and an additional 3 credits from the core or elective coursework options.

**FOREIGN LANGUAGE REQUIREMENTS**
State Board of Education Rule 6A-10.02412 F.A.C. states that all undergraduate students who are admitted to a public university or college in Florida shall have earned 2 credits of sequential foreign language in high school or a minimum of 6 credits at the postsecondary level in one foreign language or American Sign Language.

Students graduated with an Associate in Arts degree from a public community college or university in Florida, or other upper-division transfer student, who may be admitted without meeting the foreign language requirement, must earn such credits prior to graduation from a state university or state college. Students intending to transfer to a state university should verify that institution's foreign language graduation requirement.

**CIVIC LITERACY REQUIREMENT**
https://www.spcollege.edu/future-students/admissions/testing/florida-civic-literacy-exam

Beginning in Fall 2018, students entering a Florida public institution as an A.A., B.S. or B.A.S. degree seeking First Time In College (FTIC) student needed to demonstrate civic literacy through either completion of a course or passing an exam. The Florida Legislature amended the statute in 2021 and 2022. State Board of Education Rule 6A-10.04213 states that undergraduate students with a catalog year of Fall 2021 or after, must demonstrate competency in civic literacy by achieving a passing score on an assessment (exam) AND by successfully completing a civic literacy course.

- Effective Fall 2021, this applies to ANY student in an A.A., B.A.S. or B.S. program with a requirement term of 0595 or greater.
- Effective Fall 2022, it also applies to ANY student in an A.S. program with a requirement term of 610 or greater.
- Applies to ALL students who are entering into an A.A. and baccalaureate program under the 2021 - 2022 catalog year, regardless of prior postsecondary coursework. This includes transfer students, prior dual enrollment students and any student entering with prior postsecondary coursework.

**INSTITUTIONAL REQUIREMENTS**

In compliance with St. Petersburg College's Board Rule (P6Hx23-4.32) the following are graduation requirements:

- Ethics: All students are required to complete a minimum of 3 semester hours of a designated Ethics course (PHI 1600 or PHI 1600H) with a minimum grade of "C".
- Computer Competency: Computer Information literacy competency may be demonstrated by completing a skills competency test or by completion of an approved Computer Information Literacy course. No minimum credit hours are required.
- Enhanced World View: To provide students with an enhanced world view in light of an increasingly globalized economy, students must successfully complete at least one 3-credit course from the approved Enhanced World View (EWV) Course List as part of the general education requirements for the Associate in Arts and Associate in Science degrees.

**GRADING SYSTEM**

Board Rule and Procedure 6Hx23-4.20
Students are awarded letter grades for coursework attempted and will be reflected in a final letter grade by the professor at the end of each term.

Keep Track of your Academic Standing
https://www.spcollege.edu/current-students/student-affairs/student-right-to-know/academic-standing
Your academic standing is used to ensure timely progression towards graduation. Courses that count towards our current degree program will be used to calculate your Program Grade Point Average (GPA) and Completion Ratio.

Grade Point Average (GPA)
Use this GPA calculator. You are leaving the SPC Catalog/website to access this calculator.

ARTICULATION AGREEMENT

**General Education Agreement**

State Board of Education Regulation 6A-10.024 stipulates that after a public university or community college in Florida has published its general education core curriculum, the integrity of that curriculum shall be recognized by the other public universities and community colleges. The general education curriculum shall require thirty-six (36) semester hours of communication, mathematics, social sciences, humanities, and natural sciences. Once a student has been certified by St. Petersburg College on the official transcript as having completed satisfactorily the prescribed general education core curriculum, regardless of whether the associate degree is conferred, no other state university or community college in Florida to which he or she may transfer shall require any further such general education courses.

If articulation problems should occur, students should contact the community college articulation officer at the state university they are attending or contact the associate provost on their home campus at St. Petersburg College.

**Transfer Agreement**
Students who graduate from an institution within the Florida College System with an Associate in Arts degree are guaranteed the following rights under the Statewide Articulation Agreement (Rule 6A-10.024, F.A.C. / BOG Articulation Resolution):

- Admission to an upper division program at a state university or Florida College System institution if it offers baccalaureate degree programs, except to limited access programs. *
- Acceptance of at least 60 semester hours by the state universities and Florida College System baccalaureate degree-granting institutions.
- Adherence to the university or college requirements and policies, based on the catalog in effect at the time the student first enters the Florida college, provided the student maintains continuous enrollment.
- Transfer of equivalent courses under the Statewide Course Numbering System.
- Acceptance by the state universities and baccalaureate degree-granting Florida College system institutions of credits earned in accelerated programs (e.g. Dual Enrollment, CLEP, Advanced Placement, International Baccalaureate, and Advanced International Certificate of Education).
- No additional general education core or general education institutional requirements.
- Advance knowledge of selection criteria for limited access programs.
- Equal opportunity with native university students to enter limited access programs.

*Note: Students who have received an AA degree from an institution within the Florida College System are guaranteed admission with 60 semester hours into the State University System.

HOWEVER, admission into a specific program at a given university may not be assured. Additionally, some degree programs require specific lower division coursework outside of common prerequisites. Depending upon a student's course selection, the 60 hours earned in the AA will be accepted; however, not all of the credit may apply towards a student's degree program.

Some degree programs may include additional admission requirements (e.g., higher grade point average and/or higher test scores, additional courses or prerequisites, or auditions and/or portfolios). These programs are referred to as "limited access" programs in BOG Regulation 8.013.

**COURSE DESCRIPTIONS**
Waivers of prerequisites may be granted by deans, program directors or instructors-in-charge under certain conditions. Students who feel that they have sufficient training and / or experience to warrant an exception of the prerequisite should consult with the dean, program director or instructor-in charge involved. Please note some courses may have special fees.

**FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM**
Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and by participating nonpublic institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online SCNS to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at https://flscns.fldoe.org/.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the SCNS. The listing of prefixes and associated courses is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles".

| Prefix | Level Code | Century Digit | Decade Digit | Unit Digit | Lab Code |
|---|---|---|---|---|---|

| | (first digit) | (second digit) | (third digit) | (fourth digit) | |
|---|---|---|---|---|---|
| **ENC** | **1** | **1** | **0** | **1** | |
| English Composition | Lower (freshman) level at this institution | Freshman Composition | Freshman Composition Skills | Freshman Composition Skills I | No laboratory component in this course |

**GENERAL RULE FOR COURSE EQUIVALENCIES**
Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in Exceptions to the General Rule for Equivalency.

For example, 84 different public and nonpublic postsecondary institutions offer a freshman composition skills course. Each institution uses "ENC_101" to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "ENC" means "English Composition," the century digit "1" represents "Freshman Composition," the decade digit "0" represents "Freshman Composition Skills," and the unit digit "1" represents "Freshman Composition Skills I."

In the sciences and certain other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at a Florida College System institution is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

NOTE: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester-term system. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

**THE COURSE PREFIX**
The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

**AUTHORITY FOR ACCEPTANCE OF EQUIVALENT COURSES**
Section 1007.24(7), Florida Statutes, states:
"Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits

to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students."

**EXCEPTIONS TO THE GENERAL RULE FOR EQUIVALENCY**

Since the initial implementation of the SCNS, specific disciplines or types of courses have been excepted from the guarantee of transfer for equivalent courses. These include courses that must be evaluated individually or courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.

- Courses not offered by the receiving institution.
- For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
- Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practicum, Study Abroad, Theses, and Dissertations.
- Applied academics for adult education courses.
- Graduate courses.
- Internships, practicum, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
- Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (e.g., portfolio, audition, interview, etc.).

**COURSES AT NON-REGIONALLY ACCREDITED INSTITUTIONS**

The Statewide Course Numbering System makes available on its home page a report entitled "Courses at Non-regionally Accredited Institutions" that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Dr. Matthew Liao-Troth, Vice President of Academic Affairs at St. Petersburg College, EpiCenter, or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or via the internet.

**CAREER AND TECHNICAL EDUCATION ARTICULATIONS**

Career and Technical Education (CTE) articulation agreements are designed to give students an opportunity to earn college credit for specified training or education completed outside the college setting. Section 1007.23, Florida Statutes**,** establishes statewide articulation agreements and helps to facilitate the seamless transition of students across and among Florida's educational entities. This supports the Department's Next Generation Areas of Focus effort Number 4 —"to expand opportunities for postsecondary degrees and certificates." These agreements are intended to be a minimum guarantee of articulated credit and do not preclude institutions from granting additional credit based on local agreements.

St. Petersburg College has CTE articulations with Pinellas County High Schools, Pinellas Technical College, industry certifications, statewide vocational programs, apprenticeships, and workforce training programs. For more information about these articulations, visit the Articulations Catalog at this link.

# Accounting Technology Operations (ACTAP-CT)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Summer 2026 (665) (CIP#0552030203)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.**

This certificate is designed to prepare students for employment in the field of accounting in a business environment. The certificate prepares individuals in the principles, procedures, and theories of organizing and maintaining business and financial records and the preparation of accompanying financial reports in both a manual or computer-automated environment. These courses will apply toward the Accounting sub plan in the Business Administration A.S. degree.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 18 |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| ACG 2071 | Managerial Accounting | 3 |
| ACG 2450 [1] | Accounting Software Applications | 3 |
| APA 2501 | Payroll Accounting | 3 |
| TAX 2000 | Federal Individual Income Taxation | 3 |
| | | 3 |
| GEB 2860 [2] | Business Administration Capstone | 3 |
| OR | | |
| GEB 2940 | Business Internship | 3 |

[1]ACG2450 Uses QuickBooks Accounting Software. Completion of the course allows the student to sit for the QuickBooks Certification Exam.
[2]Students may enroll in GEB 2860 if they have completed one of the following math courses: MGF 1130, MAC 1105, or STA 2023.

Total: 18

**Program Learning Outcomes**

1. Prepare and use financial information about business organizations to support decision making.
2. Manage business information using appropriate software.
3. Demonstrate effective business communication and collaboration skills.
4. Evaluate business and financial information to support internal decision making.

## Addiction Studies (ADS-CT)

**Program Summary**

**Effective Catalog Term: Fall 2021 (595) through Present (CIP#0451150100)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This program will prepare students for entry level work in the field of alcohol and substance abuse prevention and/or addiction treatment. The Human Services Program is a Single-Source Provider with the Florida Certification Board (FCB). The coursework in this Certificate satisfies the content specific training requirements for the Certified Addiction Counselor (CAC) examination, the Certified Addiction Professional (CAP) examination, and the Certified Behavioral Health Technician (CBHT) through the FCB. There are additional requirements to quality for these examinations (i.e., work experience). See the FCB website for details www.flcertificationboard.org or contact the Program Director. These courses will apply toward the AS degree in Social and Human Services – Addiction Studies sub plan.

**Estimated total program cost: $3,813.16**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 24
**Grade of "C" or better in each of these courses**

| | | |
|---|---|---|
| SYG 2324 | Principles of Substance Abuse | 3 |
| HUS 1431 | Issues in Addiction Prevention | 2 |
| HUS 1450 | Dual Diagnosis I | 2 |
| HUS 1480 | HIV/AIDS & Drug Crisis | 2 |
| HUS 2200 | Dynamics of Groups and Group Counseling | 3 |
| HUS 2302 | Basic Counseling Skills | 3 |
| HUS 2428 | Treatment and Resources in Substance Abuse | 3 |
| --- | --- | --- |
| | | 3 |

| | | |
|---|---|---|
| HUS 2420 | Evaluation of Treatment Environments | 3 |
| OR | | |
| HUS 2421 | Methods for Identification and Intervention in Substance Abuse | 3 |
| --- | | |
| HUS 2949 | Co-op Work Experience in Human Services | 3 |

Total: 24

**Program Learning Outcomes**

1. Students apply the principles of social services provision to a variety of diverse settings within the human services delivery system and examine current social issues and human services trends and their impact on society, including mental/behavioral health, domestic violence, abuse, neglect, poverty, substance abuse and dependence.
2. Students will demonstrate a professional demeanor that uses interpersonal skills within the professional setting, including active listening, reflecting, clarifying, using open-ended questions, and responding accurately to verbal and nonverbal behavior.
3. Students will apply case management skills, including documentation, assessment, treatment planning, crisis intervention and the ability to make appropriate referrals, identify and access human services resources, including on-line data bases, directories, and referral centers.
4. Students will demonstrate the ability to adhere to professional, ethical standards in human services practice, including confidentiality, informed consent, self-disclosure, boundaries, and demonstrate sensitivity when working with diverse populations.
5. Students will demonstrate awareness of one's personal development, values, and personal challenges and strengths as they relate to one's personal and professional development and practice and understand the responsibility for ongoing professional growth and development.

## Advanced Adult Critical Respiratory Care Certificate (RESACC-ATC)

**Summary**

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 15

| | | |
|---|---|---|
| RET 3050 | Evidence Based Medicine in Respiratory Care | 3 |
| RET 4285 | Advanced Cardiopulmonary Medicine | 4 |
| RET 4494 | Advanced Cardiopulmonary Pathophysiology | 4 |
| RET 4912 | Respiratory Care Capstone | 4 |

Total: 15

## Advanced Neonatal/Pediatric Respiratory Care Certificate (RESNPS-ATC)

**Summary**

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 11

| | | |
|---|---|---|
| RET 3050 | Evidence Based Medicine in Respiratory Care | 3 |
| RET 4715 | Advanced Neonatal and Pediatric Respiratory Care | 4 |
| RET 4912 | Respiratory Care Capstone | 4 |

Total: 11

## Applied Engineering Technology (ENG-AS)

**Program Summary**

**Effective Catalog Term: Spring 2025 (645) through Summer 2026 (665) (CIP#1615000001)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This degree is a sequence of instruction with four sub plans to choose from: electronics, Lean Six Sigma quality, advanced manufacturing, and digital design and modeling. All applied engineering technology students take a common core of six classes (18 credit hours) that gives them a background in safety, quality assurance, metrology, CAD, electronics, and materials. Students will start taking classes in their sub plan right away along with their core and general education courses. There are opportunities to gain industry certifications, attend guest lectures, participate in field trips to local employers, and network with other students. Internships are also available and required for electronics, advanced manufacturing, and digital design and modeling. Our mission is to provide hands-on, relevant coursework in a supportive and creative learning environment. We will prepare students for employment, or provide additional training for currently employed students, in manufacturing, healthcare, electronics, aerospace, or other related industries. The 18 credit hour technical core has also been aligned with the Manufacturing Skills Standards Council's (MSSC) Certified Production Technician (CPT) certification. After completing the core courses, students will be eligible to take the four exams for CPT certification. The graduates of the Engineering Technology A.S. Program can transfer to universities and colleges offering the B.S. degree in Engineering Technology.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Humanities and Fine Arts-Core* | 3 |

| | |
|---|---|
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041H | Honors American National Government | 3 |
| POS 2041 | American National Government | 3 |

**MAJOR CORE COURSES** **Credits** 18
**Technology Core (Complete 18 credits)**

| | | |
|---|---|---|
| EET 1084C | Introduction to Electronics | 3 |
| ETD 1320C | Introduction to CAD | 3 |
| ETI 1110 | Introduction to Quality Assurance | 3 |
| ETI 1420 | Manufacturing Processes and Materials I | 3 |
| ETI 1701 | Industrial Safety | 3 |
| ETM 1010C | Mechanical Measurement | 3 |

**SUBPLAN** **Credits** 24
**Select one subplan from below (Complete 24 credits)**
**SUBPLAN CORE COURSES** **Credits** 0
**Subplan: Electronics (ELEC) (Complete 21 credits)**

| | | |
|---|---|---|
| CET 1114C | Digital Fundamentals with Lab | 4 |
| EET 1035C | AC/DC Circuits with Lab | 3 |
| EET 2140C | Solid State Electronics with Lab | 4 |
| EET 2155C | Linear Integrated Circuits with Lab | 4 |
| EET 2949 | Engineering Technology Work Experience | 3 |
| ETS 1542C | Programmable Logic Controllers (PLCs) | 3 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0
**Subplan: Electronics (ELEC) (Select 3 credits)**

| | | |
|---|---|---|
| ETS 1511C | Motors and Controls | 3 |
| ETS 1535C | Automation and Sensors | 3 |
| ETS 2424C | Electro-Mechanical Systems | 3 |
| ETS 2604C | Robotics | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**Subplan: Quality (QUAL) (Complete 24 credits)**

| | | |
|---|---|---|
| ETI 1100 | Statistical Process Control | 3 |
| ETI 1622 | Intro to Lean Six Sigma | 3 |
| ETI 1628 | Process Improvement Teams | 3 |
| ETI 2610 | Six Sigma Methodology and Tools | 3 |
| ETI 2623 | Lean Systems | 3 |
| STA 2023 | Elementary Statistics | 3 |
| MAN 2582 | Introduction to Project Management | 3 |
| EET 2949 | Engineering Technology Work Experience | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**Subplan: Digital Design and Modeling (DDM) (Complete 18 credits)**

| | | |
|---|---|---|
| | | 3 |
| ETD 1350C | AutoCAD Inventor (3D modeling) | 3 |
| OR | | |
| ETD 1390C | Introduction to Architectural Revit | 3 |
| OR | | |
| ETD 2367C | Fusion 360 | 3 |
| *AND* | | 3 |
| EET 2949 | Engineering Technology Work Experience | 3 |
| ETD 1340C | AutoCAD II | 3 |
| ETD 2364C | Introduction to SolidWorks | 3 |
| ETD 2368C | Advanced Solidworks | 3 |
| ETD 2369C | SolidWorks Applications | 3 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0
**Subplan: Digital Design and Modeling (DDM) (Select 6 credits)**

| | |
|---|---|
| Complete 6 credits of ETD prefix courses not required as Subplan Core Courses. | 6 |

**SUBPLAN CORE COURSES** **Credits** 0
**Subplan: Advanced Manufacturing (MANU) (Complete 21 credits)**

| | | |
|---|---|---|
| ETS 1511C | Motors and Controls | 3 |
| ETS 1542C | Programmable Logic Controllers (PLCs) | 3 |

| | | |
|---|---|---|
| ETS 2604C | Robotics | 3 |
| ETS 1535C | Automation and Sensors | 3 |
| EET 1035C | AC/DC Circuits with Lab | 3 |
| ETM 2315C | Fluid Power | 3 |
| EET 2949 | Engineering Technology Work Experience | 3 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0
**Subplan: Advanced Manufacturing (MANU) (Select 3 credits)**

| | |
|---|---|
| Complete CNT 1000 OR any 3 credit course with a prefix of EET, ETD or ETI that is not a required Subplan Core Course. | 3 |

Total: 60

**Program Learning Outcomes**

1. Demonstrate the ability to plan and manage assigned activities effectively, using industry standards.
2. Works and performs tasks effectively to meet deadlines, using professional industry standards.
3. Demonstrates effective oral and written communications skills in a work-related environment, using professional industry standards.

# Applied Mental Health (AMH-ATC)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Fall 2025 (655) (CIP#1451159967)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This undergraduate certificate will provide retired officers, current officers, other first responders, and students, the curricular experience to pursue careers in mental health counseling, psychology, and allied human services. This program contains specialized training for students who wish to pursue degrees in these critical-need careers.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18
**Complete 18 credits**

| | | |
|---|---|---|
| HUS 3505 | Ethics in Human Services | 3 |
| HUS 3370 | Issues In Mental Health | 3 |
| HUS 4333 | Assessment & Interventions in Mental Health | 3 |
| HUS 3335 | Advanced Counseling & Interviewing Skills | 3 |
| HUS 4700 | Advanced Treatment & Management | 3 |
| HUS 4945 | Human Services Internship | 3 |

Total: 18

Artificial Intelligence Responsible Use (AIRU-CT)

**Program Summary**

**Effective Catalog Term: Spring 2025 (645) through Present (CIP#0511020113)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Responsible Use Artificial Intelligence (AI) Certificate is designed to equip individuals with the essential knowledge and skills to navigate the rapidly evolving landscape of AI ethically and responsibly. Through a series of comprehensive courses, participants will explore the foundational principles of AI, delve into ethical considerations, understand AI's implications on society and business, and learn to apply AI responsibly in various domains.

**Estimated total program cost: $1,393.57**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 9

| | | |
|---|---|---|
| CAI 1000 | Introduction to Artificial Intelligence | 3 |
| GEB 1432 | Applied Artificial Intelligence (AI) in Business | 3 |
| CET 2691 | Laws & Legal Aspects of IT Security | 3 |

Total: 9

**Program Learning Outcomes**

1. Explain the importance of managing the core phases of an Artificial Intelligence (AI) project lifecycle.
2. Describe ethical and socially responsible practices related to the development and deployment of intelligent systems.
3. Describe foundational machine learning concepts.

Artificial Intelligence Responsible Use Practioner (AIRUP-CT)

**Program Summary**

**Effective Catalog Term: Spring 2025 (645) through Present (CIP#0511010200 )**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Information Technology career cluster. It provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, occupation-specific skills, and knowledge of all aspects of the Information Technology career cluster.

The content includes, but is not limited to, technical knowledge of artificial intelligence (AI) tools and their real-world applications for data management, machine learning, natural language processing, and computer vision. Additional content includes ethics as relevant to the design and implementation of artificial intelligence.

**Estimated total program cost: $2,738.61**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 18 |
|---|---|---|
| CAI 1000 | Introduction to Artificial Intelligence | 3 |
| COP 1000 | Introduction to Computer Programming | 3 |
| GEB 1432 | Applied Artificial Intelligence (AI) in Business | 3 |
| CET 2691 | Laws & Legal Aspects of IT Security | 3 |
| COP 1044 | Introduction to Data Science using Python | 3 |
| CAI 2511 | Artificial Intelligence Systems | 3 |
| | | Total: 18 |

**Program Learning Outcomes**

1. Apply foundational concepts of artificial intelligence, including machine learning, natural language processing, computer vision, and data analysis.
2. Develop and implement AI solutions using programming and industry-standard tools.
3. Evaluate and address ethical, legal, and societal implications of AI technologies.

## Associate in Arts Degree (GEN-AA)

**Program Summary**

**Program Requirements**

**AA GENERAL EDUCATION REQUIREMENTS** **Credits** 60

**AA General Education Requirements**

*Communications - Core* 3

Complete 3 credits.
Minimum grade of "C" required.
Must be completed within the first 24 credits of coursework toward the AA degree.

| | | |
|---|---|---|
| ENC 1101 | Composition I | 3 |
| ENC 1101H | Honors Composition I | 3 |

*Communications - Elective* 3

Complete 3 credits.
Minimum grade of "C" required.
Must be completed within the first 36 credits of coursework toward the AA degree.

| | | |
|---|---|---|
| ENC 1102 | Composition II | 3 |
| ENC 1102H | Honors Composition II | 3 |

*Communications - Speech Elective* 3

Complete 3 credits.
Minimum grade of "C" required.

| | | |
|---|---|---|
| SPC 1017 | Introduction to Speech Communication | 3 |
| SPC 1017H | Honors Introduction to Speech Communication | 3 |
| SPC 1065 | Speaking for Professionals | 3 |
| SPC 1608 | Public Speaking | 3 |
| SPC 1608H | Honors Public Speaking | 3 |

*Social and Behavioral Sciences - Core - American Government* 3

Complete 3 credits.
Minimum grade of "C" required.
Completing POS 2041 or POS 2041H will satisfy the **course** component of the Civic Literacy Requirement.

| | | |
|---|---|---|
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

*Social and Behavioral Sciences - Elective* 3

Complete 3 credits.
Minimum grade of "C" required.
Completing INR 2002/H or WOH 2040 will also satisfy the Enhanced World View requirement.
Completing AMH 2020/H will satisfy the **course** component of the Civic Literacy Requirement.
Completing AMH 2010/H in Fall 2024 or thereafter will satisfy the **course** component of the Civic Literacy Requirement.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |

| | | |
|---|---|---|
| AMH 2020H | Honors History of the US II | 3 |
| ANT 2000 | Introduction to Anthropology | 3 |
| ECO 2013 | Principles of Macroeconomics | 3 |
| ECO 2013H | Honors Macroeconomics | 3 |
| PSY 1012 | General Psychology | 3 |
| PSY 1012H | Honors General Psychology | 3 |
| ECO 2000 | Introduction to Economics | 3 |
| ECO 2023 | Principles of Microeconomics | 3 |
| EUH 1000 | Development of Western Civilization I | 3 |
| INR 2002 | International Relations | 3 |
| INR 2002H | Honors International Relations | 3 |
| POS 2112 | State & Local Government | 3 |
| SYG 2000 *** | Introduction to Sociology | 3 |
| WOH 2040 | The Twentieth Century | 3 |

*** Effective Fall 2024, SYG 2000 will no longer satisfy the General Education Social and Behavioral Science Core requirement. Students who have successfully completed SYG 2000 prior to Fall 2024 will satisfy the Social and Behavioral Science Core.

*Humanities and Fine Arts - Core* 3

Complete 3 credits.
Minimum grade of "C" required.
Completing ARH 1000, HUM 1020, or MUL 1010 will also satisfy the Enhanced World View requirement.

| | | |
|---|---|---|
| ARH 1000 | Understanding Art | 3 |
| HUM 1020 | Introduction to Humanities | 3 |
| MUL 1010 | Music Appreciation | 3 |
| PHI 1010 | Introduction to Philosophy | 3 |
| PHI 1010H | Honors Introduction to Philosophy | 3 |
| THE 2000 | Introduction to Theatre Arts | 3 |

*Humanities and Fine Arts - Elective* 3

Complete an additional 3 credits from either Humanities and Fine Arts **Core** or Humanities and Fine Arts **Elective** course options.
Minimum grade of "C" required.
Completing REL 2300/H will also satisfy the Enhanced World View requirement.

| | | |
|---|---|---|
| ARH 2050 | Art History:Ancient to Gothic | 3 |
| ARH 2051 | Art History: Renaissance to Contemporary | 3 |
| HUM 2210 | Western Humanities:Ancient to Renaissance | 3 |
| HUM 2210H | Honors Western Humanities: Ancient to Renaissance | 3 |
| HUM 2233 | Western Humanities:Baroque to Contemporary | 3 |
| MUH 1110 | Introduction to Music History | 3 |
| REL 2300 | World Religions | 3 |
| REL 2300H | Honors World Religions | 3 |

*Mathematics - Core* 3

Complete 3 credits.
Minimum grade of "C" required.
Must be completed within the first 12 credits of coursework toward the AA degree.

| | | |
|---|---|---|
| MAC 1105 | College Algebra | 3 |
| MAC 1114 | Trigonometry | 3 |
| MAC 1140 | Pre-Calculus Algebra | 3 |
| MAC 1147 | Pre-Calculus Algebra/Trigonometry | 5 |
| MAC 2233 | Applied Calculus I | 3 |
| MAC 2311 | Calculus with Analytic Geometry I | 5 |
| MAC 2312 | Calculus with Analytic Geometry II | 5 |
| MGF 1130 * | Mathematical Thinking | 3 |
| STA 2023 | Elementary Statistics | 3 |
| STA 2023H | Honors Elementary Statistics | 3 |

* MGF 1106 and MGF 1107 will no longer satisfy the General Education Math core requirement. Effective catalog year 2024-2025, these courses have been replaced with MGF 1130. Students who have successfully completed MGF 1106 or MGF 1107 prior to Fall 2024 will satisfy the Math core.

*Mathematics - Elective* 3

Complete an additional 3 credits from Mathematics **Core** course options

OR

Select 3 credits from any Mathematics course with MAC, MAP, MAS, MGF, MTG, or STA prefix course options.
Minimum grade of "C" required.

*Natural Sciences - Core* 3

Complete 3 credits.
Minimum grade of "C" required.
Completing any course with an "L" or "C" in the number will also satisfy the Natural Sciences Laboratory requirement.

| | | |
|---|---|---|
| AST 1002 | Introduction to Astronomy | 3 |
| BSC 1005C | Biological Sciences with Lab | 3 |
| BSC 1005CH | Honors Biological Sciences with Lab | 3 |
| BSC 2010 | Biology I Cellular Processes | 3 |
| BSC 2010CH | Honors Biology I Cellular Processes with Laboratory | 4 |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| CHM 2045 | General Chemistry I | 3 |
| ESC 1000C | Earth Science | 3 |
| EVR 1001C | Introduction to Environmental Science | 3 |
| GLY 2010 ** | Physical Geology | 3 |
| OCE 2001 ** | Introduction to Oceanography | 3 |
| PHY 1053 | General Physics I | 3 |
| PHY 2048 | Physics I | 3 |

** Effective Fall 2024 and thereafter, students who successfully complete GLY 2010 or OCE 2001 will satisfy the Natural Sciences Core requirement. If completed before Fall 2024, the course will satisfy the Natural Sciences Elective requirement.

*Natural Sciences - Elective* 3

Complete an additional 3 credits from either Natural Sciences **Core** or Natural Sciences **Elective** course options.
Minimum grade of "C" required.

Completing any course with an "L" or "C" in the number will also satisfy the Natural Sciences Laboratory requirement.

| | | |
|---|---|---|
| AST 1003 | The Solar System | 3 |
| BSC 1083 | Human Anatomy | 3 |
| BSC 1084C | Essentials of Human Anatomy & Physiology | 4 |
| BSC 1930 | Biological Issues | 3 |
| BSC 2011 | Biology II Organisms & Ecology | 3 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2250C | Field Biology of Florida with Lab | 3 |
| CHM 1025 | Introductory Chemistry | 3 |
| CHM 2046 | General Chemistry II | 3 |
| CHM 2210 | Organic Chemistry I | 3 |
| CHM 2211 | Organic Chemistry II | 3 |
| GLY 2100 | History of the Earth and Life | 3 |
| HUN 1201 | Science of Nutrition | 3 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010CH | Honors Microbiology with Laboratory | 4 |
| MET 2010 | Introductory Meteorology | 3 |
| OCB 1000C | Biology of Marine Life | 3 |
| PHY 1054 | General Physics II | 3 |
| PHY 2049 | Physics II | 3 |

*Natural Sciences - Laboratory (Institutional Requirement)*

Complete at least 1 course from the Natural Sciences coursework that includes a laboratory component. Natural Sciences Laboratory courses include any "C" or "L" course with the following prefixes: APB, AST, BCH, BOT, BSC, CHM, ESC, EVR, EVS, GLY, MCB, MET, OCB, OCE, PCB, PHY, PSC, or ZOO.
Minimum grade of “C” required.

*Ethics (Institutional Requirement)* 3

Complete 3 credits.
Minimum grade of “C” required.

| | | |
|---|---|---|
| PHI 1600 | Introduction to Ethics | 3 |
| PHI 1600H | Honors Introduction to Ethics | 3 |

*Computer and Information Literacy Competency (Institutional Requirement)* 0

No minimum credits required.
Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) or by successful completion of one of the approved Computer/Information Literacy Competency courses.

| | | |
|---|---|---|
| CGS 1070 | Basic Computer and Information Literacy | 1 |
| CGS 1100 | Computer Applications | 3 |
| CGS 1309 | Computer and Information Technology Concepts | 3 |
| EME 2040 | Introduction to Educational Technology | 3 |
| MUM 1001 | Apple Macintosh Foundations | 1 |

*Enhanced World View (Institutional Requirement)* 0

Complete at least one 3-credit course from the approved General Education Enhanced World View coursework. This requirement is intended to enhance the student's world view in light of an increasingly globalized economy. Any college-level foreign language course, excluding American Sign Language, will meet this requirement.
Minimum grade of "C" required.

| | | |
|---|---|---|
| ARH 1000 | Understanding Art | 3 |
| HUM 1020 | Introduction to Humanities | 3 |
| HUM 2270 | Humanities (East-West Synthesis) | 3 |
| INR 2002 | International Relations | 3 |
| INR 2002H | Honors International Relations | 3 |
| LIT 2110 | World Literature I (Ancient World Through Renaissance) | 3 |
| LIT 2110H | Honors World Literature I (Ancient World through Renaissance) | 3 |
| LIT 2120 | World Literature II (Renaissance to the Present) | 3 |
| MUL 1010 | Music Appreciation | 3 |
| REL 2300 | World Religions | 3 |
| REL 2300H | Honors World Religions | 3 |
| WOH 2040 | The Twentieth Century | 3 |

*Foreign Language* 0

This degree program requires a minimum of two consecutive years of a foreign language in high school OR two semesters of a foreign language at the college level.

| | | |
|---|---|---|
| ASL 1140C | Basic American Sign Language with Lab | 4 |
| ASL 1150C | Intermediate American Sign Language with Lab | 4 |
| FRE 1120 | Elementary French I | 4 |
| FRE 1121 | Elementary French II | 4 |
| SPN 1120 | Elementary Spanish I | 4 |
| SPN 1121 | Elementary Spanish II | 4 |

*Civic Literacy (FL State Requirement)* 0

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010/H in Fall 2024 or thereafter will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

*General Electives* 24

Complete 24 credits to satisfy the 60-credit requirement for the Associate of Arts degree. The college-level course (credits) used to satisfy the Computer and Information Literacy Requirement and Foreign Language Requirement will be counted as Elective credits. The college-level course (credits) used to satisfy the Enhanced World View requirement and Civic Literacy requirement will be counted as Elective credits UNLESS counted in another General Education Requirement.

Total: 60

## Audio Production and Engineering (AUDIOPE-CT)

**Program Summary**

**Effective Catalog Term: Fall 2021 (595) through Summer 2026 (665) (CIP#0610020301)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Audio Production and Engineering Certificate prepares students for the workforce in the field of Audio Production, Audio Engineering, and Live Sound. It includes courses in Apple Mac Foundations, Digital Audio Workstations, Sound, Acoustics, Studio Recording, Critical Listening, Live Sound, and an internship experience. This program is 24 credits and is financial aid eligible. It functions as a standalone certificate leading to workforce opportunities, and it also functions as an achievement for those who continue on to complete the Music Industry/ Recording Arts AS degree.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 24
**AUDIOPE-CT**

| | | |
|---|---|---|
| MUM 0001 | Music Industry Recording Arts Orientation | 0 |
| MUM 1001 | Apple Macintosh Foundations | 1 |
| MUT 1001 | Fundamentals Of Music | 3 |
| MUS 1360 | Digital Audio Workstation, Sound, & Notation Software Fundamentals | 3 |
| MUS 1621 | Acoustics and Psychoacoustics | 3 |
| MUM 2600 | Professional DAW Application | 3 |
| MUM 2601 | Studio Recording Techniques & Music Production | 3 |
| MUM 2601L | Studio Recording Techniques & Music Production Lab | 1 |
| MUM 1662 | Live Sound Reinforcement Techniques | 3 |
| MUM 1942 | Internship: Sound Engineering I | 1 |
| MUM 2609 | Critical Listening: Analysis of Contemporary Production Techniques | 3 |

Total: 24

**Program Learning Outcomes**

1. Demonstrate set-up and configuration of a computer for audio applications.

2. Understand the operation of basic reproduction, reinforcement and recording audio equipment.
3. Demonstrate understanding of the requirements for set up and operation of a sound reinforcement system.
4. Perform transactions with music industry suppliers.
5. Demonstrate employability skills.

## Biology (BIOLOGY-BS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Summer 2026 (665) (CIP#1102601011)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Bachelor of Science in Biology degree serves primarily to educate students for laboratory and field-related careers in the Biological sciences and as a transfer curriculum for graduate and professional schools.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSION REQUIREMENTS** **Credits** 60
**60 credits with at least 15 General Education credits**

Note: Students should complete MAC 1147 as early as possible to ensure timely progression; this course is a Prerequisite to MAC 2311 and PHY 1053.

**STATE MANDATED PREREQUISITES** **Credits** 0
**Courses listed below MUST be completed prior to admission.**

| | | |
|---|---|---|
| BSC 2010 | Biology I Cellular Processes | 3 |
| BSC 2010L | Biology I Cellular Processes Laboratory | 1 |
| BSC 2011 | Biology II Organisms & Ecology | 3 |
| BSC 2011L | Biology II Laboratory | 1 |
| CHM 2045 | General Chemistry I | 3 |
| CHM 2045L | General Chemistry & Qualitative Analysis Laboratory I | 1 |
| CHM 2046 | General Chemistry II | 3 |
| CHM 2046L | General Chemistry Laboratory II | 1 |

| | | |
|---|---|---|
| | | 3-5 |
| MAC 2311 | Calculus with Analytic Geometry I | 5 |
| OR | | |
| MAC 2233 | Applied Calculus I | 3 |

| | | |
|---|---|---|
| | | 3-5 |
| MAC 2312 | Calculus with Analytic Geometry II | 5 |
| OR | | |
| MAC 2234 | Applied Calculus II | 3 |
| OR | | |
| STA 2023 | Elementary Statistics | 3 |

MAC 2233 & STA 2023 are recommended for students intending to take PHY 1053 & PHY 1054.

MAC 2311 & MAC 2312 are recommended for students intending to take PHY 2048 & PHY 2049

MAC 1147 or (MAC 1140 & MAC 1114) are required prerequisite courses for MAC 2311

- - - - - - - - - - - - - - -

**Credits** 0

**Courses listed below may be completed after admission but MUST be completed in order to graduate.**

| | | |
|---|---|---|
| CHM 2210 | Organic Chemistry I | 3 |
| CHM 2210L | Organic Chemistry Laboratory I | 1 |
| CHM 2211 | Organic Chemistry II | 3 |
| CHM 2211L | Organic Chemistry Laboratory II | 1 |

**MAJOR CORE COURSES**

**Credits** 35

**Major Requirements (Complete 35 credits)**

GRADE OF "C" OR BETTER REQUIRED FOR ALL COURSES

| | | |
|---|---|---|
| BCH 4024 | Biochemistry | 4 |
| BSC 3017 [1] | Theory And Practice In The Biological Sciences | 2 |
| BSC 4931 [2] | Senior Seminar in Biology | 1 |
| PCB 3043 | Ecology | 3 |
| PCB 3043L | Ecology Lab | 1 |
| PCB 3063 | Genetics | 3 |
| PCB 3063L | Genetics Lab | 1 |
| PCB 4674 | Evolutionary Biology | 3 |
| PCB 4723 | Comparative Physiology | 3 |
| PCB 4723L | Comparative Physiology Lab | 1 |
| MCB 3020 | Microbiology | 3 |
| MCB 3020L | Microbiology Lab | 1 |

| | | |
|---|---|---|
| | | 1 |
| BSC 4905C | Undergraduate Research in Biology | 1 |
| OR | | |
| BSC 4940 | Internship in Biological Sciences | 1 |

| | | |
|---|---|---|
| | | 4 |
| PHY 1053 | General Physics I | 3 |
| OR | | |
| PHY 2048 | Physics I | 3 |

| | | |
|---|---|---|
| AND | | |
| PHY 1048L | Physics Laboratory I | 1 |
| | | 4 |
| PHY 1054 | General Physics II | 3 |
| OR | | |
| PHY 2049 | Physics II | 3 |
| AND | | |
| PHY 1049L | Physics Laboratory II | 1 |

[1]BSC 3017 should be completed in first semester of program
[2]BSC 4931 should be completed in last semester of program

**MAJOR ELECTIVE COURSES** **Credits** 9
**Major Electives (Complete 9 credits)**

Any upper division course with a prefix of BOT, BSC, CHM, MCB, PCB, or ZOO. Courses used to satisfy other program requirements may not also be used to satisfy the Major Electives Courses requirement. **BSC 3096C and BSC 4032 will NOT satisfy this requirement.**

| | | |
|---|---|---|
| BSC 2419C | Cell Culture | 3 |
| EVR 4027C | Wetlands | 3 |
| GIS 2040 | Introduction to Geographic Information Systems | 3 |

**SUBPLAN** **Credits** 16
**Select ONE subplan from below (Complete 16 credits)**
**SUBPLAN CORE COURSES** **Credits** 0
**Cellular and Molecular Biology (CMB) (Complete 4 credits)**

| | | |
|---|---|---|
| PCB 3023 | Cell Biology | 3 |
| PCB 3023L | Cell Biology Laboratory | 1 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0
**Cellular & Molecular Biology (CMB) (Complete minimum 12 credits)**

| | | |
|---|---|---|
| BSC 3453C | Research Methods in Biology | 3 |
| BSC 3931 | Special Topics in Biology | 1-2 |
| BSC 3931L | Special Topics in Biology Lab | 1-2 |
| BSC 3932 | Scientific Communication | 2 |
| BSC 4422C [1] | Methods and Applications in Biotechnology | 4 |
| PCB 4024 | Molecular Biology | 3 |
| PCB 4233 | Immunology | 3 |
| PCB 4402 [2] | Disease Ecology | 3 |
| ZOO 3733C | Human Anatomy with Lab | 4 |

[1]Course offered every other Spring (even years).
[2]Course offered every other Spring (odd years).

**SUBPLAN CORE COURSES** **Credits** 0
**Ecology, Evolution & Organismal Biology (EEOB) (Complete 4 credits)**

| | | |
|---|---|---|
| BSC 3312C | Marine Biology with Lab | 4 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0

**Ecology, Evolution & Organismal Biology (EEOB) (Complete minimum 12 credits)**

| | | |
|---|---|---|
| BOT 3143C [3] | Field Botany With Lab | 4 |
| BSC 3052 [4] | Conservation Biology | 3 |
| BSC 3453C | Research Methods in Biology | 3 |
| BSC 3931 | Special Topics in Biology | 1 |
| BSC 3931L | Special Topics in Biology Lab | 1 |
| EVR 4027C | Wetlands | 3 |
| PCB 4402 [5] | Disease Ecology | 3 |
| PCB 4454C [6] | Biostatistics with Lab | 4 |
| | | 4 |
| BOT 3015 [7] | Plant Biology | 3 |
| AND | | |
| BOT 3015L [7] | Plant Biology Lab | 1 |
| | | 4 |
| ZOO 3307 [8] | Vertebrate Zoology | 3 |
| AND | | |
| ZOO 3307L [8] | Vertebrate Zoology Lab | 1 |
| | | 4 |
| ZOO 4513 [9] | Animal Behavior | 3 |
| AND | | |
| ZOO 4513L [9] | Animal Behavior Lab | 1 |

[3]Course offered every other Fall (odd years).
[4]Course offered every other Summer (even years).
[5]Course offered every other Spring (odd years).
[6]Course offered on demand.
[7]Course offered every other Spring (even years).
[8]Course offered every other Fall (even years).
[9]Course offered every other Spring (odd years).

Total: 120

**Program Learning Outcomes**

1. Interpret and relate the concepts, principles, and theories that constitute the five primary fields in the biological sciences.
2. Appropriately conduct all aspects of scientific methodology, from experiment design to generating conclusions, in the scope of educational and research purposes.
3. Write in standard scientific format as well as review, discuss and present the findings in papers, technical reports, and other scientific communications.
4. Review the scientific literature with an active and systematic process that fosters understanding, supports sound decision-making, and guides action in the biological sciences.

## Biomedical Engineering Technology (BMET-AS)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Summer 2024 (635) (CIP#1615040102)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Associate of Science degree in Biomedical Engineering Technology prepares students for employment in a healthcare related field in electronics. The program has a strong electronics workforce focus which includes industry tours, professional association meetings, and technical workshops by industry leaders in the manufacturing of medical technology. It is also a cross-curricular program with classes in computers, networking and biology. Students combine their knowledge and skills in electronics, computers, and biology through hands-on learning and experience. Biomedical Engineering Technology provides students a chance to work directly with equipment and in environments where they can make a difference in someone's quality of life. There are two sub plans associated with the BMET-AS degree program: Medical Device Networking and Cybersecurity, and Medical Device Design and Manufacturing. This program was developed with the guidance and support of an Advisory Committee that was comprised of Clinical Engineers from Bay Care Health Systems, the Bay Area Association for Advanced Medical Instrumentation (BAAMI), members of the Florida Biomedical Society, the Manufacturing Partnership, Upper Tampa bay Chamber of Commerce, and representatives of local medical device companies. The degree aligns with the Association for Advanced Medical Instrumentation (AAMI) national certification for Certified Biomedical Equipment Technician (CBET).

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |

| | | |
|---|---|---|
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | | 3 |
| *Ethics* | | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | | 3 |
| *Natural Sciences - Core* | | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | | 3 |
| *Computer/Information Literacy Competency* | | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | | 0 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**MAJOR CORE COURSES** **Credits** 26

| | | |
|---|---|---|
| BME 1008C | Introduction to Biomedical Engineering Technology | 3 |
| EET 1084C | Introduction to Electronics | 3 |
| BSC 1084C | Essentials of Human Anatomy & Physiology | 4 |
| EET 1205C | Electronic Instrumentation | 1 |
| CET 1175C | Medical Software and Troubleshooting | 2 |
| ETS 1412C | Managing Medical Technology | 3 |
| ETS 1407 | Survey of Medical Technology | 3 |
| ETS 2424C | Electro-Mechanical Systems | 3 |
| ETS 2440C | Optics and Imaging | 3 |
| BME 2930 | Special Topics in Biomedical Engineering | 1 |

**SUBPLAN CORE COURSES** **Credits** 16
**Medical Device Networking and Cybersecurity (MDNC) (Complete 16 credits)**

| | | |
|---|---|---|
| CET 1171C | Computer Repair Essentials | 3 |
| CET 1172C | Computer Support Technician | 3 |
| CNT 1000 | Network Fundamentals | 3 |
| ETS 2940 | BMET Work Experience | 1 |
| ETS 2450C | Medical Device Networking | 3 |
| ETS 2470C | Medical Device Cybersecurity | 3 |

| SUBPLAN CORE COURSES | | Credits |
|---|---|---|
| **Medical Device Design and Manufacturing (MDDM) (Complete 16 credits)** | | |
| ETI 2041C | Medical Device Design and Prototyping | 3 |
| ETS 2940 | BMET Work Experience | 1 |
| ETD 2364C | Introduction to SolidWorks | 3 |
| ETI 1622 | Intro to Lean Six Sigma | 3 |
| | | 3 |
| ETD 2368C | Advanced Solidworks | 3 |
| OR | | |
| ETD 2369C | SolidWorks Applications | 3 |
| | | 3 |
| ETD 2371C | Rapid Protyping Model Design and Fabrication | 3 |
| OR | | |
| ETD 2372C | Rapid Prototyping II-Manufacturing Methods | 3 |

Total: 60

**Program Learning Outcomes**

1. Apply technical and software skills in biomedical engineering technology.
2. Effectively communicate biomedical engineering technology principles.
3. Demonstrate electronics and computer skills to service and maintain biomedical devices.
4. Analyze biomedical devices in order to troubleshoot, maintain, and verify the proper functioning of medical equipment according to manufacturers' specifications.

# Biotechnology Laboratory Specialist (BIOT-CT)

**Program Summary**

**Effective Catalog Term: Fall 2023 (625) through Present (CIP#0341010101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Biotechnology Laboratory Specialist Certificate represents the core skills-based courses of the Biotechnology A.S. degree. Candidates for this Certificate include students enrolled in the Biotechnology A.S. program, students in the Biology B.S. program who want to strengthen their lab skills, and new students seeking to enter the biotechnology workforce. Graduates have gained essential knowledge in Biology, Chemistry, Microbiology, Cell Culture and Genetics and have demonstrated the expertise required to work in a laboratory or bio-manufacturing setting.

**Estimated total program cost: $5,202.31**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 32
**Complete 32 credits**

| | | |
|---|---|---|
| ENC 1101 | Composition I | 3 |
| MAC 1105 | College Algebra | 3 |
| BSC 2010 * | Biology I Cellular Processes | 3 |
| BSC 2010L | Biology I Cellular Processes Laboratory | 1 |
| CHM 2045 * | General Chemistry I | 3 |
| CHM 2045L * | General Chemistry & Qualitative Analysis Laboratory I | 1 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010L | Microbiology Laboratory | 1 |
| BSC 2420 | Introduction to Biotechnology | 3 |
| BSC 2426C | Biotechnology Methods I | 4 |
| BSC 2427C | Biotechnology Methods II | 4 |
| BSC 2419C | Cell Culture | 3 |

*CHM 1025/L with a minimum grade of 'C' or permission of the program is required to enroll in this course.

Total: 32

**Program Learning Outcomes**

1. Communicate scientific concepts and practice good record-keeping using standard scientific format.
2. Systematically and safely demonstrate basic laboratory skills related to working in a laboratory environment.
3. Apply concepts and principles related to regulatory compliance including Good Documentation Practices and Quality Assurance.

## Biotechnology Laboratory Technology (BIOT-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1341010100)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Associate of Science in Biotechnology degree serves primarily to directly prepare students for laboratory careers in biotechnology. In addition graduates of this program are eligible for entry into the Bachelor of Science in Biology program.

**Estimated total program cost: $9,845.34**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists

- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | | **Credits** 12 |
|---|---|---|
| *Communications - Composition- Core* | | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | | 3 |
| *Social and Behavioral Sciences- Core* | | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | | 3 |
| *Humanities and Fine Arts-Core* | | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | | 3 |
| *Ethics* | | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | | 3 |
| *Computer/Information Literacy Competency* | | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | | 0 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H ***in Fall 2024 or thereafter*** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 3

**College Algebra**

Completion of this requirement satisfies the General Education Math Core requirement for this AS degree.

| | | |
|---|---|---|
| MAC 1105 | College Algebra | 3 |

**MAJOR CORE COURSES** **Credits** 40

| | | |
|---|---|---|
| CHM 2045 [2] | General Chemistry I | 3 |
| CHM 2045L | General Chemistry & Qualitative Analysis Laboratory I | 1 |
| CHM 2046 | General Chemistry II | 3 |
| CHM 2046L | General Chemistry Laboratory II | 1 |
| BSC 2010 | Biology I Cellular Processes | 3 |
| BSC 2010L | Biology I Cellular Processes Laboratory | 1 |
| PCB 2061C | Applied Genetics | 3 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010L | Microbiology Laboratory | 1 |
| BSC 2420 | Introduction to Biotechnology | 3 |
| BSC 2435 | Introduction to Bioinformatics | 3 |
| BSC 2426C | Biotechnology Methods I | 4 |
| BSC 2427C | Biotechnology Methods II | 4 |
| BSC 2419C | Cell Culture | 3 |
| BSC 2931 | Biotechnology Capstone | 1 |
| BSC 2940 | Biology Internship | 3 |

[2]Completion of this requirement satisfies the General Education Natural Science Core requirement for this AS degree.

**MAJOR ELECTIVE COURSES** **Credits** 6

**Complete 6 credits**

| | | |
|---|---|---|
| BME 1008C | Introduction to Biomedical Engineering Technology | 3 |
| BSC 1083 | Human Anatomy | 3 |
| CHM 1025 [3] | Introductory Chemistry | 3 |
| CHM 1025L [3] | Introductory Chemistry Lab | 1 |
| COP 1000 | Introduction to Computer Programming | 3 |
| COP 1044 | Introduction to Data Science using Python | 3 |
| ENC 2210 | Technical Writing | 3 |
| ETI 1110 | Introduction to Quality Assurance | 3 |
| ETI 1622 | Intro to Lean Six Sigma | 3 |
| FFP 1103 | Florida Incident Safety Officer | 3 |
| SPC 1608 | Public Speaking | 3 |
| STA 2023 | Elementary Statistics | 3 |

[3]Completion of CHM 1025 and CHM 1025L will account for a total of 7 credits in major electives.

Total: 61

**Program Learning Outcomes**

1. Apply the concepts and principles related to aspects of cellular and molecular biology.
2. Systematically and safely demonstrate basic laboratory skills related to working in a biotechnology laboratory.
3. Communicate scientific concepts and laboratory experiments effectively using standard scientific format and Good Documentation Practices.
4. Evaluate the design and outcome of experiments in a laboratory setting with minimal supervision.

## Building Design and Construction Management (ARCH-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1604090100)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

A balance of practical skills and management training prepares successful AS degree candidates for careers in contractors' or architects' offices, building construction administration, or self-employment in the construction industry. The program is very flexible, allowing the student to choose electives that are most suited to their career goals. Some of the courses satisfy the requirement of the Construction Industry License Board for Continuing Education Units. Classes are conveniently offered days, evenings and weekends.

**Estimated total program cost: $10,342.05**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Communications - Speech* | 3 |

| | |
|---|---|
| Complete 3 credits from the approved General Education Speech coursework . Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | |
| POS 2041 American National Government | 3 |
| POS 2041H Honors American National Government | 3 |
| AMH 2010 History of the United States I | 3 |
| AMH 2010H Honors History of the United States I | 3 |
| AMH 2020 History of the United States II | 3 |
| AMH 2020H Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 9
**Business (Select 9 credits)**

Complete 9 credits of coursework with ACG, BRC, BUL, COM, ECP, ENT, ETI, FIN, GEB, LDR, MAN, MAR, QMB, REE, RMI or TAX prefix.

**SUPPORT COURSES** **Credits** 3
**Natural Science (Select 3 credits)**

Completion of this requirement satisfies the General Education Natural Science Core requirement for this AS degree.

| | | |
|---|---|---|
| ESC 1000C | Earth Science | 3 |
| EVR 1001C | Introduction to Environmental Science | 3 |

**MAJOR CORE COURSES** **Credits**
**Complete 21 credits of Major Core Courses**

Complete 3 credits from each of the 7 Areas below

**MAJOR CORE COURSES** **Credits** 3
**Codes (Select 3 credits)**

| | | |
|---|---|---|
| BCN 1480 | Hurricane Resistant Design for Residential Construction | 1 |
| BCN 2068 | The A.D.A.: Primer for Contractors | 1 |
| BCN 2732 | Occupational Safety and Health (OSHA) Standards for the Construction Industry | 1 |
| BCT 1760 | Building Codes | 2 |

**MAJOR CORE COURSES** **Credits** 3
**Drawing (Select 3 credits)**

| | | |
|---|---|---|
| BCN 1050 | Building Specifications | 1 |
| BCN 1251C | Construction Drawing | 3 |
| BCN 1272 | Blueprint Reading | 2 |
| ETD 1320C | Introduction to CAD | 3 |
| ETD 1340C | AutoCAD II | 3 |
| ETD 1350C | AutoCAD Inventor (3D modeling) | 3 |
| ETD 1390C | Introduction to Architectural Revit | 3 |
| ETD 2392C | Advanced Architectural Revit | 3 |

**MAJOR CORE COURSES** **Credits** 3
**Estimating (Complete 3 credits)**

| | | |
|---|---|---|
| BCT 1770 | Construction Estimating | 3 |

**MAJOR CORE COURSES** **Credits** 3
**General (Select 3 credits)**

| | | |
|---|---|---|
| ARC 1701 | Architectural History I | 3 |
| ARC 1702 | Architectural History II | 3 |

**MAJOR CORE COURSES** **Credits** 3
**Industry (Complete 3 credits)**

| | | |
|---|---|---|
| TAR 1271 | Professional Practice | 3 |

**MAJOR CORE COURSES** **Credits** 3
**Materials (Select 3 credits)**

| | | |
|---|---|---|
| ARC 2461C | Materials and Methods of Construction I | 3 |
| BCN 1592 | Energy Efficient Building Construction for Florida's Climate | 3 |
| BCN 1596 | Environmental Technology for Building Construction | 2 |
| BCN 1597 | An Introduction to Solar Energy in Residential Construction | 3 |
| BCN 2052 | Masonry Construction Methods | 1 |
| BCN 2053 | Roofing Systems | 1 |

| | | |
|---|---|---|
| BCN 2054C | Construction Surveying Methods | 3 |
| BCN 2055 | Concrete Construction Methods | 1 |
| BCN 2056 | Steel Construction Methods | 1 |

**MAJOR CORE COURSES** **Credits** 3
**Work Experience (Select 3 credits)**

| | | |
|---|---|---|
| BCN 1940 | Construction Practicum | 3 |
| BCN 2949 | Co-op Work Experience | 1-3 |

**MAJOR ELECTIVE COURSES** **Credits** 15
**Select 15 credits**

| | |
|---|---|
| Complete any courses with ARC, BCN, BCT, ETC, ETD, GIS, or TAR prefix not already completed as Major Courses. No more than 9 credits can be taken with an ETD prefix. | 15 |

Total: 66

**Program Learning Outcomes**

1. Reading and interpreting construction drawings and specifications.
2. Evaluating, analyzing, and choosing appropriate building materials, and describing their proper methods of installation.
3. Interpreting and applying building code requirements to general and specific conditions.
4. Scheduling sequences of construction based on estimated quantities of materials and labor to ensure on time/on budget project delivery.
5. Applying acceptable industry practices as they relate to construction law, project administration, documentation, contracts, and project supervision.
6. Describing the history, culture, construction, materials, and methods that are characteristic to specific periods of architectural history.

## Business Administration (BUS-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Summer 2026 (665) (CIP#1552020102)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.**

This program prepares students for employment in multiple areas of general business. Students in this program will learn to communicate effectively in a business environment developing reading, writing, and speaking skills critical to functioning in this setting. Students will become comfortable making decisions and taking responsibility in multiple aspects of their working environment. All students will complete a set of foundational courses in this degree. The student will be able to select a Specialization subplan in one of the following areas: Accounting, Entrepreneurship, Financial Services, Management and Operations, Marketing or Supply Chain and Logistics, all of which are transferable to SPC's Management and Organizational Leadership BAS (MGTORG-BAS) or Sustainability Management BAS (SUSMGT-BAS) degree programs in the College of Business.

For the BS Transfer subplan, students will complete the state mandated prerequisite courses required for admission to the Business Administration BS (BUS-BS).

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered

- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 15
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | |
| *Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | |
| POS 2041 American National Government | 3 |
| POS 2041H Honors American National Government | 3 |
| AMH 2010 History of the United States I | 3 |
| AMH 2010H Honors History of the United States I | 3 |

| | | |
|---|---|---|
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 3

**Computer and Information Literacy Requirement**

Completion of this requirement satisfies the General Education Computer Competency requirement for this AS degree.

| | | |
|---|---|---|
| CGS 1100 | Computer Applications | 3 |

**MAJOR CORE COURSES** **Credits** 18

**Foundational Courses (Complete 18 credits)**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| GEB 1011 | Introduction to Business | 3 |
| GEB 2214 | Business Communications | 3 |
| MAN 2021 | Principles of Management | 3 |
| MAN 2604 | Intercultural Relations in Business | 3 |
| | | 3 |
| BUL 2241 | Business Law I | 3 |
| OR | | |
| BUL 2131 | Legal Environment of Business | 3 |

**SUBPLAN CORE COURSES** **Credits** 24

**BS Transfer (BS BAS) (Complete 24 credits)**

This sub-plan is designed to allow the student to meet the state mandated pre-requisites for the admission requirements to the Bachelor of Science in Business Administration or the Bachelor of Applied Science in International Business.

| | | |
|---|---|---|
| ACG 2071 | Managerial Accounting | 3 |
| ECO 2013 | Principles of Macroeconomics | 3 |
| ECO 2023 | Principles of Microeconomics | 3 |
| ENC 1102 | Composition II | 3 |
| MAC 1105 | College Algebra | 3 |
| MAC 2233 | Applied Calculus I | 3 |
| STA 2023 [2] | Elementary Statistics | 3 |
| | | 3 |
| GEB 2860 | Business Administration Capstone | 3 |
| OR | | |
| GEB 2940 [3] | Business Internship | 3 |

[2]QMB 2100 may be substituted for STA 2023.
[3]The Standard Internship is 3 credits and requires 60 hours of internship work experience for each credit earned.

**SUBPLAN CORE COURSES**

**Accounting Operations (ACCTG) (Complete 24 credits)**

| | | |
|---|---|---|
| *Select course from Math Group below* | | |
| STA 2023 [4] | Elementary Statistics | 3 |

| | | |
|---|---|---|
| OR | | |
| MAC 1105 | College Algebra | 3 |
| OR | | |
| MGF 1130 | Mathematical Thinking | 3 |
| ACG 2071 | Managerial Accounting | 3 |
| ACG 2450 [a] | Accounting Software Applications | 3 |
| APA 2501 | Payroll Accounting | 3 |
| BRC 2001 | Principles of Financial Services-Banking | 3 |
| FIN 2000 | Principles of Finance | 3 |
| TAX 2000 | Federal Individual Income Taxation | 3 |
| GEB 2860 | Business Administration Capstone | 3 |
| OR | | |
| GEB 2940 [3] | Business Internship | 3 |

[4]STA 2023 is the recommended math course, however students may select from: STA 2023, MAC 1105, MGF 1130, or QMB 2100 may be substituted for STA 2023.
[a]Completion of ACG2450 at SPC prepares students for the QuickBooks Certification Exam
[3]The Standard Internship is 3 credits and requires 60 hours of internship work experience for each credit earned.

**SUBPLAN CORE COURSES**
**Entrepreneurship (ENT) (Complete 24 credits)**

| | | |
|---|---|---|
| STA 2023 [4] | Elementary Statistics | 3 |
| OR | | |
| MAC 1105 | College Algebra | 3 |
| OR | | |
| MGF 1130 | Mathematical Thinking | 3 |
| ENT 1000 | Intro to Entrepreneurship | 3 |
| ENT 1012 | Entrepreneurship Management | 3 |
| ENT 2010 | Planning the Entrepreneurial Venture | 3 |
| ENT 2120 | Entrepreneurial Marketing and Sales | 3 |
| MAR 2101 | Social Media Marketing | 3 |
| GEB 2350 | Survey of International Business | 3 |
| GEB 2860 | Business Administration Capstone | 3 |
| OR | | |
| GEB 2940 [3] | Business Internship | 3 |

[4]STA 2023 is the recommended math course, however students may select from: STA 2023, MAC 1105, MGF 1130. QMB 2100 may be substituted for STA 2023.
[3]The Standard Internship is 3 credits and requires 60 hours of internship work experience for each credit earned.

**SUBPLAN CORE COURSES**
**Financial Services (FINSV/BANK) (Complete 24 credits)**

| | | |
|---|---|---|
| MAC 1105 | College Algebra | 3 |

| | | |
|---|---|---|
| OR | | |
| MGF 1130 | Mathematical Thinking | 3 |
| OR | | |
| STA 2023 | Elementary Statistics | 3 |

| | | |
|---|---|---|
| BRC 2001 | Principles of Financial Services-Banking | 3 |
| OR | | |
| BRC 2062 | Introduction to Financial Markets and Money | 3 |
| OR | | |
| FIN 2000 | Principles of Finance | 3 |

| | | |
|---|---|---|
| FIN 1100 | Personal Finance | 3 |
| RMI 1201 [b] | Principles of Property and Liability Insurance | 3 |
| RMI 2113 [b] | Personal Insurance | 3 |
| RMI 2213 [b] | Commercial Insurance | 3 |
| MAR 2410 | Personal Selling | 3 |
| GEB 2860 | Business Administration Capstone | 3 |
| OR | | |
| GEB 2940 [3] | Business Internship | 3 |

[b]Completion of RMI 1201, RMI 2113, RMI 2213 and the AS degree will enable students to earn up to 3 Florida insurance licenses (4-40, 20-44, 2-40) . Licenses are awarded without state examination through the Division of Insurance Agent and Agency Services.
[3]The Standard Internship is 3 credits and requires 60 hours of internship work experience for each credit earned.

**SUBPLAN CORE COURSES**
**Interdisciplinary Business (IDSB) (Complete 24 credits)**

| | | |
|---|---|---|
| STA 2023 [4] | Elementary Statistics | 3 |
| OR | | |
| MAC 1105 | College Algebra | 3 |
| OR | | |
| MGF 1130 | Mathematical Thinking | 3 |

| | | |
|---|---|---|
| GEB 2860 | Business Administration Capstone | 3 |
| OR | | |
| GEB 2940 [3] | Business Internship | 3 |

Complete 18 credits using any lower division course (1XXX - 2XXX) within the following subjects: ACG, APA, BRC, BUL, ECO, ENT, FIN, FOS, FSS, GEB, HFT, LDR, MAN, MNA, MAR, REE, RMI, TAX

5

[4]STA 2023 is the recommended math course, however students may select from: STA 2023, MAC 1105, MGF 1130. QMB 2100 may be substituted for STA 2023.
[3]The Standard Internship is 3 credits and requires 60 hours of internship work experience for each credit earned.

[5]Courses numbered 1999/2999 indicate transferred coursework and will not automatically satisfy this requirement. Please see your advisor for options concerning these courses.

**SUBPLAN CORE COURSES**
**Management and Operations (MGMT) (Complete 24 credits)**

| | | |
|---|---|---|
| STA 2023 [4] | Elementary Statistics | 3 |
| OR | | |
| MAC 1105 | College Algebra | 3 |
| OR | | |
| MGF 1130 | Mathematical Thinking | 3 |
| ACG 2071 | Managerial Accounting | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| OR | | |
| ENC 2210 | Technical Writing | 3 |
| LDR 2001 | Introduction to Leadership | 3 |
| MAN 2340 | Supervisory Management | 3 |
| MAN 2582 [c] | Introduction to Project Management | 3 |
| MAR 2011 | Principles of Marketing | 3 |
| GEB 2860 | Business Administration Capstone | 3 |
| OR | | |
| GEB 2940 [3] | Business Internship | 3 |

[4]STA 2023 is the recommended math course, however students may select from: STA 2023, MAC 1105, MGF 1130. QMB 2100 may be substituted for STA 2023.
[c]Completion of MAN 2582 may provide the option to sit for the CAPM Project Management Certification Exam
[3]The Standard Internship is 3 credits and requires 60 hours of internship work experience for each credit earned.

**SUBPLAN CORE COURSES**
**Marketing (MKT) (Complete 24 credits)**

| | | |
|---|---|---|
| STA 2023 [4] | Elementary Statistics | 3 |
| OR | | |
| MAC 1105 | College Algebra | 3 |
| OR | | |
| MGF 1130 | Mathematical Thinking | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| MAR 2011 | Principles of Marketing | 3 |
| MAR 2101 | Social Media Marketing | 3 |
| MAR 1142 | Global Marketing | 3 |
| GEB 2350 | Survey of International Business | 3 |
| MAR 2321 | Advertising | 3 |
| OR | | |
| MAR 2410 | Personal Selling | 3 |

| | | |
|---|---|---|
| GEB 2860 | Business Administration Capstone | 3 |
| OR | | |
| GEB 2940 [3] | Business Internship | 3 |

[4]STA 2023 is the recommended math course, however students may select from: STA 2023, MAC 1105, MGF 1130. QMB 2100 may be substituted for STA 2023.
[3]The Standard Internship is 3 credits and requires 60 hours of internship work experience for each credit earned.

**SUBPLAN CORE COURSES**
**Supply Chain and Logistics (SUP)(Complete 24 credits)**

| | | |
|---|---|---|
| STA 2023 [4] | Elementary Statistics | 3 |
| OR | | |
| MAC 1105 | College Algebra | 3 |
| OR | | |
| MGF 1130 | Mathematical Thinking | 3 |
| MAN 1500 [d] | Supply Chain Operations | 3 |
| MAN 1590 [d] | Supply Chain Practices | 3 |
| MAN 2571 | Supply Chain Planning | 3 |
| MAN 2582 [c] | Introduction to Project Management | 3 |
| GEB 2350 | Survey of International Business | 3 |
| MAR 1142 | Global Marketing | 3 |
| GEB 2860 | Business Administration Capstone | 3 |
| OR | | |
| GEB 2940 [3] | Business Internship | 3 |

[4]STA 2023 is the recommended math course, however students may select from: STA 2023, MAC 1105, MGF 1130. QMB 2100 may be substituted for STA 2023.
[d]MAN1500 and MAN1590 align with various SCPro Fundamentals Supply Chain Management Industry Certifications endorsed by CSCMP
[c]Completion of MAN 2582 may provide the option to sit for the CAPM Project Management Certification Exam.
[3]The Standard Internship is 3 credits and requires 60 hours of internship work experience for each credit earned.

Total: 60

**Program Learning Outcomes**

1. Describe the concepts of management by identifying issues managers face that apply to various types of organizations. This includes defining major management competencies, discussing major management roles, and identifying challenges within the current environment of business.
2. Analyze how fundamental principles of business impact organizational effectiveness in a business environment.
3. Present strategic issues local organizations encounter and identify solutions for improvement and long-term sustainability.

## Business Administration (BUS-BS)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Present (CIP#1552020102)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** Our Bachelor of Science in Business Administration teaches you how to analyze and solve business problems in quickly changing environments. We give you a foundation in economics, accounting, finance, management, marketing, business law, statistics and operations management. As a graduate of this program, you'll have the knowledge and business insight to assume positions of responsibility in a global business community.

**Estimated total program cost: $10,932.91**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSIONS COURSES** **Credits** 60
**60 credits in a related discipline with at least 15 General Education credits**
**STATE MANDATED PREREQUISITES** **Credits** 0

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| ACG 2071 | Managerial Accounting | 3 |
| CGS 1100 * | Computer Applications | 3 |
| ECO 2013 * | Principles of Macroeconomics | 3 |
| ECO 2023 | Principles of Microeconomics | 3 |
| MAC 2233 [1] | Applied Calculus I | 3 |
| STA 2023 [2] | Elementary Statistics | 3 |

*Applies towards general education requirements
[1]Applies towards general education requirements; Students can also take *MAC 2311 Calculus with Analytic Geometry I. Students selecting this option should contact an advisor.
[2]Applies towards general education requirements; QMB 2100 is an acceptable substitute for STA 2023.

**MAJOR CORE COURSES** **Credits** 36
**Grade of "C" or better required for all upper-division courses**

| | | |
|---|---|---|
| BUL 3320 | Law and Business | 3 |
| FIN 3403 [3] | Financial Management | 3 |
| GEB 3213 | Business Communication for Professional Effectiveness | 3 |
| ISM 3011 | Management Information Systems | 3 |

| | | |
|---|---|---|
| MAN 3303 | Management & Leadership Practices | 3 |
| MAN 3504 | Operations Management | 3 |
| MAN 3600 | International Business | 3 |
| MAN 4583 | Project Management | 3 |
| MAR 3802 | Marketing Management | 3 |
| QMB 3200 | Quantitative Methods for Business | 3 |
| REQUIRED FINAL COURSE (6 credits) - Last Semester for All Students | | |
| MAN 4900 [4] | Strategic Capstone Project | 6 |

[3]Must be taken within first 15 upper division hours of program
[4]For students in Effective terms prior to 0520, MAN 4900 will be completed for 3 credits. For students in term 0520 or later, MAN 4900 will be offered at 6 credits starting Fall 2017. All major core courses must completed before Capstone can be taken.

**SUBPLAN** **Credits** 18
**Select ONE subplan from below (Complete 18 credits):**
**SUBPLAN CORE COURSES** **Credits** 0
**SUBPLAN: FINANCIAL SERVICES (FS)**

| | | |
|---|---|---|
| FIN 4140 | Personal Financial Planning | 3 |
| FIN 4323 | Bank Operations & Management | 3 |
| FIN 4414 | Advanced Financial Management | 3 |
| FIN 4504 | Investments | 3 |
| MAN 3503 | Managerial Risk Analysis and Decision Making | 3 |
| MAR 4413 | Sales and Customer Relationship Management | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**SUBPLAN: INTERNATIONAL BUSINESS (IB)**

| | | |
|---|---|---|
| BUL 3322 | Legal Issues in International Business | 3 |
| ETI 3647 | Supply Chain Management | 3 |
| MAN 4102 | Management of Cultural Dynamics | 3 |
| MAN 4625 | Managing Global Human Resources | 3 |
| MAN 4570 | International Procurement & Outsourcing | 3 |
| MAR 4424 | International Marketing | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**SUBPLAN: MARKETING (MAR)**

| | | |
|---|---|---|
| MAR 3334 | Marketing Promotions | 3 |
| MAR 4413 | Sales and Customer Relationship Management | 3 |
| MAR 4424 | International Marketing | 3 |
| MAR 4613 | Marketing Research | 3 |
| MAR 4836 | Concept and Product Development | 3 |
| MAR 4841 | Services Marketing | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**SUBPLAN: MANAGEMENT (MGMT)**

| | | |
|---|---|---|
| ETI 3647 | Supply Chain Management | 3 |
| MAN 3240 | Applied Organizational Behavior | 3 |
| MAN 3503 | Managerial Risk Analysis and Decision Making | 3 |

| | | |
|---|---|---|
| MAN 3786 | Sustainability in the Built Environment | 3 |
| MAN 4584 | Process Improvement Methodologies | 3 |
| | | 3 |
| MAN 4881 | Authority Influence and Projects | 3 |
| OR | | |
| MAN 4741 | Innovation, Change and Agile Projects | 3 |

**MAJOR ELECTIVE COURSES** **Credits** 6
**Select 6 Upper Division Credits**

| | | |
|---|---|---|
| FIN 4140 | Personal Financial Planning | 3 |
| FIN 4470 | Entrepreneurial Finance | 3 |
| FIN 4504 | Investments | 3 |
| MAN 3240 | Applied Organizational Behavior | 3 |
| MAN 3786 | Sustainability in the Built Environment | 3 |
| MAN 3802 | Principles of Entrepreneurship | 3 |
| MAN 4061 | Corporate Social Responsibility | 3 |
| MAN 4102 | Management of Cultural Dynamics | 3 |
| MAN 4570 | International Procurement & Outsourcing | 3 |
| MAN 4741 | Innovation, Change and Agile Projects | 3 |
| MAN 4935 | Special Topics in Management Concepts | 3 |
| MAN 4940 [5] | Internship | 3 |
| SPM 3154 | Principles of Sports Management | 3 |
| SPM 4104 | Sports Facility and Event Management | 3 |

[5]Standard Internship is 3 credits. Internships require 60 hours of internship work experience for each 1 credit earned

Total: 120

**Program Learning Outcomes**

1. Demonstrate analytical reasoning skills that support effective business operations.
2. Apply a global perspective when identifying the factors that impact organizations.
3. Develop business strategies in marketing, finance, information systems and operations that maximize business value.

# Business Analyst Specialist (ANLST-ATC)

**Program Summary**

**Effective Catalog Term: Fall 2023 (625) through Present (CIP#0530710266)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program may be completed Fully Online.** This certificate prepares students for a career in business analytics. Students will learn analytical techniques in statistics, business modeling, and data visualization that will help decision-makers make intelligent data-driven decisions."A Business Analyst acts as the bridge between business ideas and business capabilities. They play an incredibly important role as they help to decipher the future

of businesses, by identifying, creating and scoping valuable changes and enhancements to business processes" (www.e-careers.com). The business skills learned are Business Acumen, Business Analytics, Business Architecture, Business Communications, Business Development.

**Estimated total program cost: $5,268.25**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 30
**Complete 30 credits**

| | | |
|---|---|---|
| CTS 2417 | Data Visualization Techniques | 3 |
| CIS 2321 | Systems Analysis and Design | 3 |
| CTS 2433 | SQL Database Design & Programming | 3 |
| CTS 2455 | Data Modeling and Logical Design | 3 |
| CTS 2450 | Introduction to Business Intelligence | 3 |
| QMB 3200 | Quantitative Methods for Business | 3 |
| MAN 3503 | Managerial Risk Analysis and Decision Making | 3 |
| MAN 4583 | Project Management | 3 |
| MAN 4584 | Process Improvement Methodologies | 3 |
| MAN 4741 | Innovation, Change and Agile Projects | 3 |

Total: 30

**Program Learning Outcomes**

1. Apply business analysis principles, project management techniques, and analytics tools to support innovation, solve problems, and improve organizational performance.
2. Evaluate data models, operational structures, and decision-making processes to generate insights and drive continuous improvement.
3. Describe the role of business analysts in bridging business ideas, technology, and organizational capabilities, including the fundamentals of computerized business activities.

## Business Development and Entrepreneurship (BUSENTR-CT)

**Program Summary**

**Effective Catalog Term: Spring 2021 (585) through Present (CIP#0552070306)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Business Development and Entrepreneurship Certificate (CCC) offers a sequence of courses that provide relevant technical knowledge and business skills needed to prepare for starting and/or managing an entrepreneurial business and/or attaining further education and careers in the Business, Management, and Administration fields. The content includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, occupation-specific skills, and knowledge of the aspects in Business Management and Administration careers. Career options include positions and jobs in new venture formation, management of early stage startups, intrapreneurship and division management, sales, promotions, marketing, consulting, brand and product line development. Students completing this college credit certificate can transfer the credits directly to the Business Administration AS Degree. The content includes but is not limited to business communications, business development, accounting, management, marketing, business law, leadership and global business practices.

**Estimated total program cost: $4,779.71**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 24
**Complete 24 credits**

| | | |
|---|---|---|
| CGS 1100 | Computer Applications | 3 |
| ENT 1000 | Intro to Entrepreneurship | 3 |
| GEB 2214 | Business Communications | 3 |
| ENT 1012 | Entrepreneurship Management | 3 |
| ACG 2021 | Financial Accounting | 3 |
| ENT 2010 | Planning the Entrepreneurial Venture | 3 |
| ENT 2120 | Entrepreneurial Marketing and Sales | 3 |
| | | 3 |
| BUL 2241 | Business Law I | 3 |
| OR | | |
| BUL 2131 | Legal Environment of Business | 3 |

Total: 24

**Program Learning Outcomes**

1. Prepare and use financial information about business organizations to support decision making.
2. Manage business information using appropriate software
3. Demonstrate effective business communication skills.
4. Demonstrate employability skills.
5. Prepare or develop strategic or organizational skills.
6. Demonstrate knowledge of basic marketing principles.

7. Demonstrate knowledge of small business management functions.
8. Plan the marketing strategy and promote the business.
9. Utilize effective selling techniques and procedures.
10. Demonstrate knowledge of effective business communication strategies.
11. Demonstrate an understanding of the foundational principles associated with business development.
12. Demonstrate knowledge of international/global business practices.

## Business Entrepreneurship (ENTR-CT)

**Program Summary**

**Effective Catalog Term: Fall 2015 (505) through Present (CIP#0552070308)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** The Entrepreneurship courses identified in this Certificate program will apply towards the Business Administration AS degree. These courses will cover the areas of entrepreneurship from management and marketing to developing strategies for business plans.

**Estimated total program cost: $2,406.96**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 12 |
|---|---|---|
| ENT 1000 | Intro to Entrepreneurship | 3 |
| ENT 1012 | Entrepreneurship Management | 3 |
| ENT 2010 | Planning the Entrepreneurial Venture | 3 |
| ENT 2120 | Entrepreneurial Marketing and Sales | 3 |
| | | Total: 12 |

**Program Learning Outcomes**

1. Develop entrepreneurial concepts.
2. Develop entrepreneurial resources.
3. Apply accounting principles and concepts to perform accounting activities.
4. Demonstrate money management skills.
5. Describe and conduct business records management.
6. Plan and develop a marketing-information management system.
7. Plan and develop promotional strategies.
8. Plan and develop pricing strategies.
9. Analyze business risk.

10. Analyze and identify legal considerations.

## Business Management (BUSADM-CT)

**Program Summary**

**Effective Catalog Term: Spring 2021 (585) through Summer 2026 (665) (CIP#0552070101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.**

The Business Management Certificate (CCC) offers a sequence of courses with relevant technical knowledge and skills needed to prepare for further education and careers in the Business Management and Administration fields. The certificate provides technical skill proficiency, which includes competency-based applied learning. The content includes but is not limited to the areas of planning, organizing, directing and controlling of a business. Emphasis is placed on selected theories of management and decision making and the knowledge and understanding necessary for managing people and functions. These courses cover skills associated in the areas of accounting, business communications, financial concepts, marketing, legal requirements and budgeting.

The business courses identified in this Certificate program will apply towards the Business Administration AS degree. After completing this certificate, students are encouraged to continue their education by completing the remaining courses in the Business Administration AS degree.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18
**Complete 18 credits**

| | | |
|---|---|---|
| CGS 1100 | Computer Applications | 3 |
| GEB 1011 | Introduction to Business | 3 |
| GEB 2214 | Business Communications | 3 |
| MAN 2021 | Principles of Management | 3 |
| ACG 2021 | Financial Accounting | 3 |
| | | 3 |
| BUL 2241 | Business Law I | 3 |
| OR | | |

| | | |
|---|---|---|
| BUL 2131 | Legal Environment of Business | 3 |

**SUBPLAN** **Credits** 6
**Select ONE subplan from below (Complete 6 credits)**
**SUBPLAN CORE COURSES** **Credits** 0
**Banking and Finance (BNKFIN)**

| | | |
|---|---|---|
| BRC 2001 | Principles of Financial Services-Banking | 3 |
| | | 3 |
| FIN 2000 | Principles of Finance | 3 |
| OR | | |
| BRC 2062 | Introduction to Financial Markets and Money | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**Management and Operations (MGMTOP)**

| | | |
|---|---|---|
| MAN 2604 | Intercultural Relations in Business | 3 |
| | | 3 |
| MAN 2340 | Supervisory Management | 3 |
| OR | | |
| MAN 2582 | Introduction to Project Management | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**Marketing (MRKT)**

| | | |
|---|---|---|
| MAR 2011 | Principles of Marketing | 3 |
| | | 3 |
| MAR 2101 | Social Media Marketing | 3 |
| OR | | |
| MAR 1142 | Global Marketing | 3 |

Total: 24

**Program Learning Outcomes**

1. Prepare and use financial information about business organizations to support decision making.
2. Manage business information using appropriate software.
3. Demonstrate effective business communication skills.
4. Describe the significance of legal and ethical issues in a business environment.
5. Demonstrate employability skills.
6. Prepare or develop strategic or organizational skills.
7. Identify, classify and demonstrate management activities.

## Business Operations - Marketing (MKT-CT)

**Program Summary**

**Effective Catalog Term: Fall 2015 (505) through Present (CIP#0552020104)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** The Business Operations - Marketing courses identified in this Certificate program will apply towards the Business Administration AS degree. These courses will cover the

areas of marketing from trade operations to retail and wholesale agencies with an emphasis on advertising, sales, social, and commercial marketing principles. This certificate will prepare students for a career in the field of marketing with an emphasis on customer relations.

**Estimated total program cost: $3,197.58**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 18 |
|---|---|---|
| MAR 2011 | Principles of Marketing | 3 |
| MAR 2321 | Advertising | 3 |
| MAR 2101 | Social Media Marketing | 3 |
| MAR 2410 | Personal Selling | 3 |
| GEB 1011 | Introduction to Business | 3 |
| GEB 2214 | Business Communications | 3 |
| | | Total: 18 |

**Program Learning Outcomes**

1. Prepare and use financial information to support decision-making.
2. Demonstrate an understanding of accounting operations.
3. Manage business information using appropriate technology.
4. Demonstrate effective business communication skills.
5. Describe the significance of legal and ethical issues in a business environment.
6. Demonstrate employability skills.
7. Demonstrate an understanding of management activities.

## Cardiopulmonary Science (CARD-BS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1105109081)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is only offered Fully Online.** A Baccalaureate degree in Cardiopulmonary Sciences (BSCS) will provide the Registered Respiratory Therapist, who has completed the Associate of Science (AS) in Respiratory Care, the opportunity to keep pace with the advancement and requirements of the profession. This program will provide a broader based curriculum that will lead to advanced credentials, as well as, professional growth and development in leadership, management, education and research.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| | | |
|---|---|---|
| **ADMISSION REQUIREMENTS**<br>**60 credits with at least 15 General Education credits** | | **Credits** 60 |
| **ADMISSIONS COURSES**<br>**Additional General Education Courses - Grade of "C" or higher required** | | **Credits** 18 |
| For A.S. degree holders, an additional 15-21 general education credits are required to complete the thirty-six (36) credit hour general education requirement of St. Petersburg College. | | 18 |
| **STATE MANDATED PREREQUISITES** | | **Credits** 0 |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010L | Microbiology Laboratory | 1 |
| _____ Students must complete either BSC 1005C OR CHM 1025 and CHM 1025L | | |
| BSC 1005C | Biological Sciences with Lab | 3 |
| CHM 1025 | Introductory Chemistry | 3 |
| CHM 1025L | Introductory Chemistry Lab | 1 |
| **LOWER DIVISION SUPPORT COURSES**<br>**Complete 3 credits** | | **Credits** 3 |
| Complete any courses | | |

Students who have not completed a total of 121 credits may complete coursework with any prefix to satisfy this requirement. Please see program director for recommended courses.

| | | |
|---|---|---|
| **MAJOR CORE COURSES** | | **Credits** 40 |
| HSA 4184 | Leadership & Management in Health & Human Services Organizations | 3 |
| HSA 3104 | Health Care Delivery in the United States | 3 |
| HSA 3702 | Research Methods in Health & Human Services | 3 |

| | | |
|---|---|---|
| HSA 4140 | Strategic Management and Planning in Health & Human Services | 3 |
| HSC 3201 | Community Health and Epidemiology | 3 |
| HSC 4640 | Legal & Ethical Aspects of Health Care | 3 |
| RET 3050 | Evidence Based Medicine in Respiratory Care | 3 |
| RET 4285 | Advanced Cardiopulmonary Medicine | 4 |
| RET 4494 | Advanced Cardiopulmonary Pathophysiology | 4 |
| RET 4715 | Advanced Neonatal and Pediatric Respiratory Care | 4 |
| RET 4524 | Patient Education & Disease Management | 3 |
| RET 4912 | Respiratory Care Capstone | 4 |

Total: 121

Program Learning Outcomes

1. The goal of the St. Petersburg College Bachelors in Science in Cardiopulmonary Science program is to provide graduates of entry into respiratory care professional practice degree programs with additional knowledge, skills, and attributes in leadership, management, education, research, or advanced clinical practice both to meet their current professional goals and to prepare them for practice as advanced degree respiratory therapists.

## Cisco Certified Network Associate (CCNA-CT)

**Program Summary**

**Effective Catalog Term: Fall 2020 (580) through Present (CIP#0511100114)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This certificate program is designed to produce a Cisco Certified Network Associate, CCNA. The CCNA is recognized in the industry as a technical professional working with traditional Cisco-based networks that predominantly include LAN and WAN routers and LAN switches. Students who complete this Cisco training will have the expertise needed to pass the test, required by Cisco Systems, to achieve CCNA status. Upon completion of the Cisco Certified Network Associate program, the student is awarded a college certificate. These courses will apply toward the AS degree in Computer Networking.

**Estimated total program cost: $3,462.24**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 21
**Complete 21 credits - Grade of "C" or better required.**

| | | |
|---|---|---|
| CET 1171C | Computer Repair Essentials | 3 |
| CET 1172C | Computer Support Technician | 3 |
| CET 1600 | Introduction to Networks | 3 |
| CET 1610 | Switching, Routing, and Wireless Essentials | 3 |
| CET 2615 | Enterprise Networking, Security, and Automation | 3 |
| CET 2620 | Enterprise Core Technologies | 3 |
| CET 2685 | Implementing Cisco Network Security | 3 |

Total: 21

**Program Learning Outcomes**

1. Demonstrate a fundamental understanding of computer networking.
2. Demonstrate an understanding of routing concepts.
3. Demonstrate router configuration skills.
4. Demonstrate an understanding of LAN design and concepts.
5. Demonstrate VLAN configuration skills.
6. Demonstrate an understanding of wide area networks (WAN).
7. Demonstrate WAN configuration skills.
8. Demonstrate an understanding of network security.
9. Demonstrate an understanding of remote access.
10. Demonstrate an understanding of IP addressing services.
11. Demonstrate an understanding of network maintenance, support and troubleshooting.

## Cloud Computing (CLOUD-CT)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#0511100116)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The certificate will prepare individuals for high demand jobs in cloud computing. It will be aligned with several industry certifications and provide students with hands-on experience with leading cloud platforms.

**Estimated total program cost: $4,021.24**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 24
**Complete 24 Credits**

| | | |
|---|---|---|
| COP 1000 ** | Introduction to Computer Programming | 3 |
| CNT 1000 | Network Fundamentals | 3 |
| CTS 1193 | Cloud Essentials | 3 |
| CTS 1120 | Network Security Foundations | 3 |
| CTS 2106 | Fundamentals of the Linux Operating System | 3 |
| CTS 1328 | Windows Server Hybrid Administration | 3 |
| CTS 2312 | Cloud Security | 3 |
| CIS 2642C | Cloud Infrastructure and Services | 3 |

**Students should be comfortable with basic algebra and problem-solving tasks. It is recommended that students complete College Algebra (MAC 1105) before enrolling in COP 1000.

Total: 24

**Program Learning Outcomes**

1. Demonstrate an understanding of virtualization concepts.
2. Install and configure the virtualization server platform.
3. Install, configure and manage virtualized clients.

## Cloud Computing Technology (CLOUD-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1511090200)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Cloud Computing Technology Associate in Science degree program will provide students with a comprehensive and practical education in the field of cloud computing. The program aims to equip students with the knowledge, skills, and competencies required to excel in the rapidly evolving cloud technology industry. By focusing on a combination of theoretical knowledge and hands-on experience, the program prepares students for successful careers in cloud computing and related fields.

**Estimated total program cost: $10,285.76**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 18
**AS General Education Requirement**

*AS GENERAL EDUCATION REQUIREMENTS - Communications - Composition- Core* 3

Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree.

*AS GENERAL EDUCATION REQUIREMENTS - Humanities and Fine Arts-Core* 3

Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. Completing ARH 1000, HUM 1020 or IDS 1106 will also satisfy the Enhanced World View Requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Mathematics-Core* 3

Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Natural Sciences - Core* 3

Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. Completing any course with an "L" or "C" in the number will also satisfy the Natural Sciences Laboratory requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Social and Behavioral Sciences- Core* 3

Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Ethics* 3

Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Enhanced World View*

Complete at least one 3-credit course from the approved General Education Enhanced Worldview course list. This requirement is intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Civic Literacy*

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |

| | | |
|---|---|---|
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 3

**Support Courses**

| | | |
|---|---|---|
| CGS 1309 | Computer and Information Technology Concepts | 3 |

Completion of CGS 1309 will also satisfy the Computer Competency requirement.

**MAJOR CORE COURSES** **Credits** 39

**Major Core Courses**

| | | |
|---|---|---|
| COP 1000 ** | Introduction to Computer Programming | 3 |
| CNT 1000 | Network Fundamentals | 3 |
| CTS 1193 | Cloud Essentials | 3 |
| CTS 1120 | Network Security Foundations | 3 |
| CTS 1411 | Fundamentals of Information Storage and Management | 3 |
| CTS 2106 | Fundamentals of the Linux Operating System | 3 |
| CTS 1328 | Windows Server Hybrid Administration | 3 |
| CTS 2321 | Linux System Administration | 3 |
| CTS 2370 | Configuring and Managing Virtualization | 3 |
| CTS 2433 | SQL Database Design & Programming | 3 |
| CTS 2312 | Cloud Security | 3 |
| CIS 2642C | Cloud Infrastructure and Services | 3 |
| CEN 2940 | Cloud Computing Internship | 3 |

**Students should be comfortable with basic algebra and problem-solving tasks. It is recommended that students complete College Algebra (MAC 1105) before enrolling in COP 1000.

Total: 60

**Program Learning Outcomes**

1. Implement cloud security practices including compliance and governance requirements.
2. Create strategies for disaster recovery, business continuity planning, and cloud migration.
3. Summarize and explain a "real-world" experience with a major related, supervised and evaluated practical work experience internship.

## Community Health Worker Certificate (CHW-CT)

**Program Summary**

**Effective Catalog Term: Fall 2021 (595) through Present (CIP#0451150400)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The CHW Section of the APHA (American Public Health Association) has adopted the following definition of a community health worker: A community health worker is a frontline public health worker who is a trusted member of and/or has an unusually close understanding of the community served. This trusting relationship enables the worker to serve as a liaison/link/intermediary between health/social services and the community to facilitate access to services and improve the quality and cultural competence of service delivery. A community health worker also builds individual and community capacity by increasing health knowledge and self-sufficiency through a range of activities such as outreach, community education, informal counseling, social support and advocacy. The Human Services Program is a Single-Source Provider with the Florida Certification Board (FCB). The

coursework in this Certificate satisfies the educational requirements for the Certified Community Health Worker (CCHW) examination. There are additional requirements to quality for this examination (i.e., work experience). See the FCB website for details www.flcertificationboard.org These courses will apply toward the A.S. degree in Social and Human Services.

**Estimated total program cost: $2,691.97**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18
**Grade of "C" or higher is required in all courses.**

| | | |
|---|---|---|
| HUS 1111 | Introduction to Intra and Inter-Personal Processes | 3 |
| HUS 1353 | Issues in Community Health Services | 3 |
| HUS 2540 | Building Stronger Families and Communities | 3 |
| HUS 2550 | Social Services and the Disenfranchised | 3 |
| HUS 2949 | Co-op Work Experience in Human Services | 3 |
| _____ | _____ | |
| | | 3 |
| HUS 2541 | Working with Families in the Early Childhood Period | 3 |
| OR | | |
| HUS 2542 | Working with Families in the Perinatal Period | 3 |

Total: 18

**Program Learning Outcomes**

1. PROGRAM PLANNING AND EVALUATION: Exhibit the ability to: (A) assess the needs of clients and programs; (B) develop interventions that promote optimal functioning, growth, and goal attainment; and (C) evaluate and make necessary adjustments as appropriate.
2. Assess client/family needs, strengths, and resources.
3. Assist client/families in goal setting and achievement.
4. Educate client/families.
5. Establish client/family support system.

## Computer Information Technology (CIT-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1511010307)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should

visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This program prepares the student for an entry-level position in the support of information systems and technology services in a business setting. Students will learn technical skills in networking, spreadsheet & database programming, Web tools, and information technology security. Students will have the opportunity to learn software application support, hardware configurations & troubleshooting, and data analysis. Students will have the opportunity to sit for the CompTIA A+, CompTIA Network+, MOS Excel, and MOS Access industry certifications after completing the associated courses.

**Estimated total program cost: $10,103.95**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| | |
|---|---|
| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Ethics* | 3 |

| | | |
|---|---|---|
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | | 3 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |

| **SUPPORT COURSES** | | **Credits** 3 |
|---|---|---|
| Completion of this requirement satisfies the General Education Computer Competency requirement for this AS degree. | | |
| CGS 1100 | Computer Applications | 3 |

| **MAJOR CORE COURSES**<br>**Complete 39 credits** | | **Credits** 39 |
|---|---|---|
| CET 1171C | Computer Repair Essentials | 3 |
| CET 1172C | Computer Support Technician | 3 |
| CGS 1301 | Introduction to Information Systems | 3 |
| CGS 1309 | Computer and Information Technology Concepts | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| CGS 1545 | Database Techniques | 3 |
| CGS 1831 | Web Foundations/Essentials | 3 |
| CGS 2651 | Social Media and Web Technologies | 3 |
| CIS 2321 | Systems Analysis and Design | 3 |
| COP 1000 [2] | Introduction to Computer Programming | 3 |
| CNT 1000 | Network Fundamentals | 3 |
| CTS 1120 | Network Security Foundations | 3 |
| | | 3 |
| CIS 2940 | Computer Information Technology Internship | 3 |
| OR | | |
| CIS 2950 | Computer Science Capstone Experience | 3 |

[2]Students should be comfortable with basic algebra and problem-solving tasks. It is recommended that students complete College Algebra (MAC 1105) before enrolling in COP 1000.

Total: 60

**Program Learning Outcomes**

1. Ethically apply, implement and evaluate computer technologies, systems and or programs.
2. Develop effective support platforms across an organization to include computer systems, networks, and software applications.
3. Summarize and explain a real-world" experience with a major-related, supervised and evaluated practical work experience internship.

## Computer Programmer (CMPRG-CT)

**Program Summary**

**Effective Catalog Term: Fall 2020 (580) through Present (CIP#0511020200)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This certificate is designed to further develop student proficiency in programming by giving students the opportunity to complete multiple programming languages. These programming languages have been identified as those needed for students to enter the job market as an entry-level programmer. Also, the Java programming language courses provide students the ability to prepare for industry certification.

**Estimated total program cost: $5,040.60**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 33
**Complete 33 credits**

| | | |
|---|---|---|
| CGS 1309 | Computer and Information Technology Concepts | 3 |
| COP 1000 * | Introduction to Computer Programming | 3 |
| CGS 1560 | Computer Operating Systems | 3 |
| CGS 1831 | Web Foundations/Essentials | 3 |
| COP 2250 | Java Programming I | 3 |
| COP 2360 | C# Programming I | 3 |
| CTS 2433 | SQL Database Design & Programming | 3 |
| COP 2251 | Java Programming II | 3 |
| COP 2362 | C# Programming II | 3 |

| | | |
|---|---|---|
| COP 2839 | ASP.NET Programming with C# | 3 |
| CIS 2321 | Systems Analysis and Design | 3 |

*Students should be comfortable with basic algebra and problem-solving tasks. It is recommended that students complete College Algebra (MAC 1105) before enrolling in COP 1000.

Total: 33

**Program Learning Outcomes**

1. Perform data file activities.
2. Perform analysis activities.
3. Perform program design activities.
4. Perform coding activities.
5. Perform testing activities.
6. Perform user-training activities.
7. Perform implementation activities.
8. Perform user-support activities.
9. Perform evaluation activities.
10. Demonstrate general organizational computing workplace competencies.
11. Develop an algorithm that solves a problem.

## Computer Programming and Analysis (CWPA-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1511020101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This program offers the opportunity to become a successful programmer with practical skills in multiple programming language platforms. The Java courses prepares you to sit for the Oracle Java Certified Associate industry certification. You will also develop strategies for managing data; evaluating the effectiveness of information technology application systems; and in the last semester you will enroll in an internship for career development.

**Estimated total program cost: $9,510.51**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 18
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**MAJOR CORE COURSES** **Credits** 36
**Complete 36 credits**

| | | |
|---|---|---|
| CGS 1309 | Computer and Information Technology Concepts | 3 |
| COP 1000 ** | Introduction to Computer Programming | 3 |
| CGS 1560 | Computer Operating Systems | 3 |
| CGS 1831 | Web Foundations/Essentials | 3 |
| COP 2250 | Java Programming I | 3 |
| COP 2251 | Java Programming II | 3 |
| COP 2360 | C# Programming I | 3 |
| COP 2362 | C# Programming II | 3 |
| CTS 2433 | SQL Database Design & Programming | 3 |
| COP 2839 | ASP.NET Programming with C# | 3 |
| CIS 2321 | Systems Analysis and Design | 3 |
| COP 2940 | Computer Programming Internship | 3 |

**Students should be comfortable with basic algebra and problem-solving tasks. It is recommended that students complete College Algebra (MAC 1105) before enrolling in COP 1000

**MAJOR ELECTIVE COURSES** **Credits** 6
**Complete 6 credits from 1 grouping below:**

| | | |
|---|---|---|
| *Mobile Device Programming* | | 6 |
| COP 2660 | Introduction to Android Programming | 3 |
| AND | | |
| COP 2654 | iOS App Development | 3 |
| OR | | |
| *Application Programming* | | 6 |
| COP 2220 | Programming in C++ | 3 |
| AND | | |
| COP 2222 | Advanced C++ Programming | 3 |
| OR | | |
| *Web Programming* | | 6 |
| CNT 1000 | Network Fundamentals | 3 |
| AND | | |
| COP 2801 | JavaScript | 3 |

Total: 60

**Program Learning Outcomes**

1. Analyzes technical problems, design and develop applications as related to customer requirements using multiple programming languages.
2. Evaluate software problems, plans, and solutions in compliance with industry standards.
3. Summarize and explain a real-world experience with a major-related, supervised and evaluated practical work experience internship.

## Computer Programming Specialist (CPS-CT)

**Program Summary**

**Effective Catalog Term: Fall 2020 (580) through Present (CIP#0511020103)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This certificate is designed to develop student proficiency in programming and to introduce the student to the variety of skills necessary to create dynamic Web content and transaction-based Web systems. On completion of the certificate, the student will be expected to enter the job market as an entry-level programmer. Also, on completion of the Java courses the student will be prepared for the Oracle Java Associate industry certification.

**Estimated total program cost: $2,746.47**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 9
**Complete 9 credits**

| | | |
|---|---|---|
| COP 1000 | Introduction to Computer Programming | 3 |
| CGS 1831 | Web Foundations/Essentials | 3 |
| CTS 2433 | SQL Database Design & Programming | 3 |

**SUBPLAN** **Credits** 9
**Select ONE subplan below**
**SUBPLAN CORE COURSES** **Credits** 0
**C++ Subplan (CPLUS) (Complete 9 credits)**

| | | |
|---|---|---|
| COP 2220 [1] | Programming in C++ | 3 |
| COP 2222 | Advanced C++ Programming | 3 |
| CIS 2321 | Systems Analysis and Design | 3 |

[1]This course has replaced CGS 2402; effective Spring 2019 (0555).

**SUBPLAN CORE COURSES** **Credits** 0
**C# Subplan (CSHARP) (Complete 9 credits)**

| | | |
|---|---|---|
| COP 2360 | C# Programming I | 3 |
| COP 2362 | C# Programming II | 3 |

| | | |
|---|---|---|
| COP 2839 | ASP.NET Programming with C# | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**Java Subplan (JAVA) (Complete 9 credits)**

| | | |
|---|---|---|
| COP 2250 | Java Programming I | 3 |
| COP 2251 | Java Programming II | 3 |
| COP 2660 | Introduction to Android Programming | 3 |

Total: 18

**Program Learning Outcomes**

1. Perform data file activities
2. Perform program design activities.
3. Perform coding activities.
4. Perform testing activities.
5. Perform implementation activities.
6. Develop an algorithm that solves a problem.

## Computer Related Crime Investigation (CRCI-CT)

**Program Summary**

**Effective Catalog Term: Fall 2023 (625) through Present (CIP#0743010304)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This certificate requires eight of nine courses listed below for a total of 24 credit hours which include skills in researching, investigating, using computer software, interpreting laws, and using the internet as an investigative tool. This certificate will prepare the student for careers in corporate computer security investigation or similar careers in law enforcement. The prerequisites for entry to the program are basic computer usage skills: editing files, navigating a file system, and browsing the internet. The courses include tasks that will enhance the student's ability to obtain and interpret data from various sources. The student will also be provided with scenarios and case histories to explore and gain experience. These courses will apply toward the AS degree in Public Safety, Criminal Justice (CJPSS-AS), Digital Forensics and Computer Investigations subplan.

**Estimated total program cost: $3,680.95**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 24

| | | |
|---|---|---|
| CJE 1680 | Introduction to Computer Related Crime Investigations | 3 |
| CJE 1669 | Identity Theft Investigations | 3 |
| CJE 1681 | Internet as an Investigative Tool | 3 |
| CJE 1682 | Tracking and Profiling Hackers, Pedophiles and Internet Stalkers | 3 |
| CJE 1684 | Internet Fraud Investigations | 3 |
| CJE 1685 | Legal Aspects of Computer Related Criminal Investigations | 3 |
| CJE 1686 | Forensic Computer Related Crime Investigations | 3 |
| CTS 1120 | Network Security Foundations | 3 |

Total: 24

**Program Learning Outcomes**

1. Describe and discuss the criminal justice system.
2. Describe and discuss juvenile delinquency.
3. Summarize law enforcement administration
4. Describe and discuss the field of corrections.
5. Explain the US Court System and its relation to the rules of evidence.
6. Identify issues relating to human diversity in the criminal justice system.
7. Demonstrate oral, written, and interpersonal communication skills.
8. Demonstrate basic computer skills and competency in common software applications.

## Computer-Aided Design & Drafting (CAD-CT)

**Program Summary**

**Effective Catalog Term: Spring 2025 (645) through Present (CIP#0615130304)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate provides a program of study with courses in CAD (computer aided drafting) and solid modeling needed to assist the engineering and drafting activities of industry, construction, architecture, and consultants in planning, designing, and detailing projects. Rapid Prototyping techniques, like 3D printing, woodworking, casting and molding, are taught throughout the solid modeling courses. This CAD Certificate is part of the Digital Design and Modeling Subplan of the 60-credit hour Associate in Science degree in Engineering Technology. Some of these courses can also be taken as electives in the Building Design and Construction Management AS degree program. Students new to this field will be able to obtain employment by completing this certificate and work in those areas where CAD technicians, drafters, and designers are needed.

**Estimated total program cost: $3,855.68**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 24 |
|---|---|---|
| ETD 1320C | Introduction to CAD | 3 |
| ETD 1340C | AutoCAD II | 3 |
| | | 3 |
| ETD 1350C | AutoCAD Inventor (3D modeling) | 3 |
| OR | | |
| ETD 1390C | Introduction to Architectural Revit | 3 |
| OR | | |
| ETD 2367C | Fusion 360 | 3 |
| AND | | |
| ETD 2364C | Introduction to SolidWorks | 3 |
| ETD 2368C | Advanced Solidworks | 3 |
| ETD 2369C | SolidWorks Applications | 3 |
| Select any two (2) additional ETD related courses | | 6 |
| | | Total: 24 |

**Program Learning Outcomes**

1. Demonstrate knowledge of using 2D and solid modeling software.
2. Demonstrate proficiency in 2D CAD and basic solid modeling fundamentals.
3. Demonstrate proficiency in engineering design fundamentals.
4. Demonstrate proficiency in advanced solid modeling tools and commands.
5. Demonstrate proficiency in advanced solid modeling, assemblies, and drawings.

## Corporate Entrepreneurship & Innovation (COENTR-ATC)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#0552070367)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program may be completed Fully Online.** The Corporate Entrepreneurship Program is designed to instill entrepreneurial thinking and innovation within the corporate context. This program integrates fundamental entrepreneurship principles with a focus on intrapreneurial skills, aiming to empower students to drive innovation, navigate change, and create value within established organizations. Through a blend of theoretical knowledge and practical application, students will develop the mindset and capabilities essential for success in modern business settings.

**Estimated total program cost: $3,299.84**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18
**Complete 18 credits**

| | | |
|---|---|---|
| GEB 1432 | Applied Artificial Intelligence (AI) in Business | 3 |
| MAN 3802 | Principles of Entrepreneurship | 3 |
| MAN 4054 | Managing for Innovation | 3 |
| MAN 4583 | Project Management | 3 |
| | | 3 |
| ENT 2612 | Principles of Creativity and Innovation Leadership | 3 |
| OR | | |
| MAN 4741 | Innovation, Change and Agile Projects | 3 |
| OR | | |
| MAN 4781 | Sustainable Business Strategies | 3 |
| | | 3 |
| MAR 4836 | Concept and Product Development | 3 |
| OR | | |
| MAR 4613 | Marketing Research | 3 |

Total: 18

**Program Learning Outcomes**

1. Apply entrepreneurial and intrapreneurial skills, including innovation, creativity, and strategic initiative, to drive organizational growth and positive change.
2. Design adaptive strategies for navigating organizational change, leveraging emerging technologies and market trends to maintain competitiveness.
3. Collaborate effectively across diverse teams, demonstrating strong communication and teamwork to achieve shared business objectives.

## Crime Scene Technology (CST-AS)

**Program Summary**

**Effective Catalog Term: Summer 2023 (620) through Spring 2028 (690) (CIP#1743040600)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

*****THIS PROGRAM IS NO LONGER ACCEPTING STUDENTS. LAST ADMISSION TERM IS SUMMER 2023 (0620)*** → Students who wish to pursue Crime Scene Technology may enroll in the Public Safety A.S. (CJPSS-AS) program with a declared subplan of Crime Scene Technology (CST).**

**This program is offered as a Fully Online program.** The goal of this program is to prepare successful students for employment in the field of criminalistics with a specialty in Crime Scene Technology. The student can serve in, but is not limited to, a position as a Crime Scene Technician, Crime Scene Photographer, Fingerprint Classification Specialist, Crime Lab Assistant, Investigator/Consultant, Juvenile Assessment Worker, Latent Print Examiner/ Trainee, Fire Inspector/Investigator, Forensic Science Specialist and Property and Evidence Personnel. Crime Scene

Technologists can be employed by Local, State and Federal law enforcement agencies, State Attorneys' Offices, Public Defenders' Offices, Medical Examiners' Offices, law firms and private industry. The content includes, but is not limited to, a working knowledge of all basic tenets in crime scene technology encompassed in the phases of crime scene search, recording, evidence gathering, packaging of evidence and courtroom testimony. The goal is the proper collection of crime scene evidence according to all legal dictates for presentation in court. Reinforcement of basic skills in English, mathematics, and science appropriate for the job preparatory program is provided through vocational classroom instruction and applied laboratory procedures and practice. Laboratory and field experiences are an integral part of this program. Students will participate in mock crime scene exercises, moot court hearings and various lab experiences that involve the processing of evidence.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 21 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Communications - Literature* | 3 |
| Complete 3 credits from the approved General Education Composition II/Literature coursework . Minimum grade of "C" required. This requirement must be completed within the first 36 credits of coursework toward the AS degree. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |

| | | |
|---|---|---|
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | | 3 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 1
**Computer and Information Literacy Competency (Complete 1 credit)**

| | | |
|---|---|---|
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. | | 1 |
| CGS 1070 | Basic Computer and Information Literacy | 1 |
| CGS 1100 | Computer Applications | 3 |
| CGS 1309 | Computer and Information Technology Concepts | 3 |
| EME 2040 | Introduction to Educational Technology | 3 |
| MUM 1001 | Apple Macintosh Foundations | 1 |

**SUPPORT COURSES** **Credits** 3
**Criminal Justice (Complete 3 credits)**

| | | |
|---|---|---|
| CCJ 1020 | Introduction to Criminal Justice | 3 |

**SUPPORT COURSES** **Credits** 3
**Human Anatomy (Complete 3 credits)**

| | | |
|---|---|---|
| BSC 1083 | Human Anatomy | 3 |

- - - - - - - - - - - - - - - **Credits**
**Science course recommendation:**

Students must complete any approved science course with a CHM, ESC, GLY or PHY prefix and one credit of elective coursework. It is highly suggested students complete the following to satisfy these 4 credits: CHM 1025 and CHM 1025L

**SUPPORT COURSES** **Credits** 3
**Physical Science (Select 3 credits)**

| | | |
|---|---|---|
| Any approved science course with a CHM, ESC, GLY or PHY prefix | | 3 |

**SUPPORT COURSES** **Credits** 1
**Elective (Select 1 credit)**

| | | |
|---|---|---|
| Any one credit elective course (any prefix) | | 1 |

**MAJOR CORE COURSES** **Credits** 28
**Complete 28 credits**

| | | |
|---|---|---|
| CJE 1640 | Introduction to Crime Scene Technology | 3 |
| CJE 1643 | Advanced Crime Scene Technology | 3 |
| CJE 2644 | Crime Scene Safety | 3 |
| CJE 2645 | Introduction to Forensic Science | 3 |
| CJE 2671 + | Latent Fingerprint Development | 3 |
| CJE 2672 | Fingerprint Classification | 3 |
| CJE 2676 | Biological Evidence | 3 |
| CJL 2610 + | Courtroom Presentation of Scientific Evidence | 3 |
| CJE 2673C | Crime Scene Photography | 4 |

+Courses CJL 2610 and CJE 2671 should be taken during the student's last semester.

Total: 60

**Program Learning Outcomes**

1. Demonstrate knowledge of mapping measuring, data collection, logging and recording of the crime scene and related evidence in report form, as well as film, disc, and video.
2. Demonstrate knowledge of safely collecting and development of physical evidence.
3. Demonstrate knowledge of fingerprint development and preservation with Henry Modified fingerprint classification system as well as the Live Scan.
4. Demonstrate knowledge of the criminal justice system as well as courtroom presentation of scientific evidence.

## Crime Scene Technology (CST-CT)

**Program Summary**

**Effective Catalog Term: Fall 2023 (625) through Present (CIP#0743040600)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** Crime Scene technologists are employed by local, state and federal law enforcement agencies, state attorney offices, public defender offices, medical examiners' offices, law firms and private industry. The certificate program is designed to prepare a crime scene technician who will be able to locate, identify, process and preserve the crime scene. They will also testify in court as to their findings. These courses will apply toward the AS degree in Criminal Justice Technology Public Safety Services.

**Estimated total program cost: $4,366.45**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

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- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 27

| | | |
|---|---|---|
| CJE 1640 | Introduction to Crime Scene Technology | 3 |
| CJE 1643 | Advanced Crime Scene Technology | 3 |
| CJE 2644 | Crime Scene Safety | 3 |
| CJE 2645 | Introduction to Forensic Science | 3 |
| CJE 2671 * | Latent Fingerprint Development | 3 |
| CJE 2672 | Fingerprint Classification | 3 |
| CJE 2673C | Crime Scene Photography | 3 |
| CJE 2676 | Biological Evidence | 3 |
| CJL 2610 * | Courtroom Presentation of Scientific Evidence | 3 |

*Courses CJL 2610 and CJE 2671 should be taken during the student's last semester.

Total: 27

**Program Learning Outcomes**

1. Demonstrate knowledge of recording the crime scene and related evidence on memory card, film, disc and video.
2. Demonstrate knowledge of collection and development of evidence.
3. Demonstrate knowledge of fingerprint development and preservation.
4. Demonstrate knowledge of crime scene data gathering.
5. Demonstrate knowledge of mapping, measuring, and logging the crime scene.
6. Demonstrate knowledge of crime scene safety.
7. Demonstrate knowledge of crime scene report writing.
8. Demonstrate knowledge of courtroom testimony presentations.
9. Demonstrate knowledge and understanding of the criminal justice system.

## Cybersecurity (CYSEC-BAS)

**Summary**

**Effective Catalog Term: Fall 2022 (610) through Present (CIP#1101110034)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** The Bachelor of Applied Science in Cybersecurity is a professional workforce degree program that focuses on technologies and practices designed to protect information and physical resources such as computers, networks, programs and data from damage or unauthorized access. This BAS degree program will build upon students' core knowledge in cyber security and technical areas such as computer networking, digital forensics, and computer security with an upper division curriculum focusing on information security, risk assessment and mitigation compliance, disaster planning and recovery, advanced forensics, information assurance, and defense against cyber-attack. The program will also afford students the opportunity to demonstrate their technical career skills by obtaining higher-level security industry certifications.

**Estimated total program cost: $9,777.06**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| | | |
|---|---|---|
| **ADMISSIONS COURSES**<br>**60 credits in a related discipline with at least 15 General Education credits** | | **Credits** 60 |
| **GENERAL EDUCATION COURSES**<br>**Additional General Education Courses** | | **Credits** 15 |
| **STATE MANDATED PREREQUISITES**<br>**Complete 18 credits. All courses must be completed with a grade of "C" or better.** | | **Credits** |
| CET 2691 | Laws & Legal Aspects of IT Security | 3 |
| CGS 2811 | Incident Response & Disaster Recovery | 3 |
| CIS 1358 | Operating System Security | 3 |
| CIS 2352 | Ethical Hacking | 3 |
| CTS 1120 | Network Security Foundations | 3 |
| CTS 1314 | Network Defense and Countermeasures | 3 |
| **MAJOR CORE COURSES**<br>**(45 credits) Grade of "C" or better required** | | **Credits** 45 |
| CIS 3083 | Cloud Computing Foundations | 3 |
| ISM 4330 | Information Security Policy Administration and Management | 3 |
| CIS 4253 | Ethics for Information Technology | 3 |
| CIS 4219 | Human Aspects of Cyber Security | 3 |
| ISM 4573 | Compliance and Data Governance | 3 |
| ISM 4321 | Strategic Cyber Security Enforcement | 3 |
| ISM 4329 | Incident Investigation and Forensics | 3 |
| CIS 4776 * | Cyber Warfare | 3 |
| ISM 4571 | Emerging Security Technologies | 3 |
| ISM 4323 | Security Essentials | 3 |
| CNT 3421 | Securing the Cloud | 3 |
| CTS 4124 | Threat Detection and Mitigation | 3 |
| CIS 3661 | Security Architectures | 3 |
| CIS 4200 | Security Penetration Testing | 3 |
| ISM 4914 | Security Capstone | 3 |

*This course number was previously CNT 4416.

Total: 120

**Program Learning Outcomes**

1. Secure a computer-based system, process, component, or program to meet business needs.
2. Analyze a problem and identify and define the security risks and requirements appropriate to its solution.
3. Summarize and explain a real-world experience with a major-related capstone.

## Cybersecurity (ITSC-AS)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Summer 2024 (635) (CIP#1511100307)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This program is designed to prepare the student to develop an organizational network and security program using risk management strategies, and to develop a strategy to address the increased growth of informational technology security concerns from regional to international environments. Students also learn how to evaluate security techniques that assist in the prevention of hackers and cyber-attacks. Students are given the opportunity to sit for the CompTIA A+, CompTIA Security+, EC-Council Certified Ethical Hacker, Cisco CCNA CyberOps and Cisco CCENT industry certifications.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 18
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Humanities and Fine Arts-Core* | 3 |

| | | |
|---|---|---|
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | | 3 |
| *Mathematics-Core* | | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | | 3 |
| *Natural Sciences - Core* | | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | | 3 |
| *Ethics* | | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | | 3 |
| *Computer/Information Literacy Competency* | | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | | 0 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 21
**Complete 21 credits**

| | | |
|---|---|---|
| CET 1171C | Computer Repair Essentials | 3 |
| CET 1172C | Computer Support Technician | 3 |
| CET 1600 | Introduction to Networks | 3 |
| CET 1610 | Switching, Routing, and Wireless Essentials | 3 |
| CJE 1686 | Forensic Computer Related Crime Investigations | 3 |
| CGS 1309 | Computer and Information Technology Concepts | 3 |
| CTS 2106 | Fundamentals of the Linux Operating System | 3 |

**MAJOR CORE COURSES** **Credits** 18
**Complete 18 credits**

| | | |
|---|---|---|
| CET 2691 | Laws & Legal Aspects of IT Security | 3 |
| CGS 2811 | Incident Response & Disaster Recovery | 3 |
| CIS 1358 | Operating System Security | 3 |
| CTS 1120 | Network Security Foundations | 3 |
| CTS 1314 | Network Defense and Countermeasures | 3 |

| | | |
|---|---|---|
| CIS 2352 | Ethical Hacking | 3 |

**MAJOR CORE COURSES** **Credits** 3
**INTERNSHIP**

| | | |
|---|---|---|
| CTS 2940 | Cybersecurity Internship | 3 |

Total: 60

**Program Learning Outcomes**

1. Develop an organizational network and security program using risk management strategies.
2. Implement incident response, disaster recovery, and business continuity planning.
3. Summarize and explain a real-world experience with a major related, supervised and evaluated work experience internship.

## Cybersecurity (ITSC-CT)

**Program Summary**

**Effective Catalog Term: Spring 2016 (510) through Present (CIP#0511100311)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** The prerequisites for entry are basic computer usage skills: editing files, navigating a file system, browsing the Web, basic knowledge of networking, and working knowledge or training in the Unix or Linux operating system. This certificate emphasizes understanding and demonstrated skills of the following concepts related to IT security: policies, intrusion detection systems, router security, TCP/IP (Transmission Control Protocol/Internet Protocol), and network security basics; implementing and managing a firewall; auditing tools; basics of cryptography, biometrics, and file encryption; hardware and software designed to secure information network systems; and legal aspects of IT security. The courses include tasks that will enhance the students' ability to interpret data and information from various sources and create reports based upon this information. This certificate emphasizes an understanding of the following concepts related to IT security: policies, intrusion detection systems, router security, and network security basics. This certificate prepares the student for the CompTIA Security +, Cisco CCNA Cyber Operations, and EC-Council Certified Ethical Hacker industry certifications exams. These courses will apply toward the A.S. degree in Information Technology (IT) Security.

**Estimated total program cost: $2,962.48**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18

| | | |
|---|---|---|
| CTS 1120 | Network Security Foundations | 3 |
| CIS 1358 | Operating System Security | 3 |
| CTS 1314 | Network Defense and Countermeasures | 3 |
| CGS 2811 | Incident Response & Disaster Recovery | 3 |
| CET 2691 | Laws & Legal Aspects of IT Security | 3 |
| CIS 2352 | Ethical Hacking | 3 |

Total: 18

**Program Learning Outcomes**

1. Demonstrate an understanding of computer hardware.
2. Demonstrate an understanding of networked environments, hardware, and software.
3. Install and configure secure network systems software and utilities.
4. Demonstrate proficiency with Internet structure, organization, and navigation.
5. Demonstrate an understanding of network access control systems and methodology.
6. Describe cryptography concepts, standards, and applications.
7. Perform telecommunications and network security activities.
8. Demonstrate an understanding of Database Management Systems (DBMS).
9. Perform administrative tasks related to database security.
10. Demonstrate an understanding of E-commerce.
11. Perform tasks related to E-commerce security.
12. Perform webserver and site management activities.
13. Design and implement physical security measures.
14. Perform operation and security management practices.
15. Employ applications and systems development security techniques.
16. Develop business continuity and disaster recovery plans.
17. Describe ethical issues, pertinent laws, and how to conduct investigations.
18. Perform general organizational computing workplace competencies.
19. Perform project planning and management activities.
20. Perform documentation and technical reference activities.
21. Demonstrate employability skills.
22. Demonstrate professional development skills.

## Data Science (DATSCI-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1530700100)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This degree prepares students for a career in data science. Students will learn techniques for manipulating, cleansing, and analyzing large data sets. This degree provides the student with an advanced statistical skill set for true data analysis.

**Estimated total program cost: $9382.88**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered

- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 15
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | |

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 6

**Math**

Completion of this requirement satisfies the General Education Math Core requirement for this AS degree.

| | | |
|---|---|---|
| MAC 1105 | College Algebra | 3 |
| MAC 1140 | Pre-Calculus Algebra | 3 |

**SUPPORT COURSES** **Credits** 6

**Computer and Information Literacy Requirement**

Completion of this requirement satisfies the General Education Computer Competency requirement for this AS degree.

| | | |
|---|---|---|
| CGS 1100 | Computer Applications | 3 |
| CGS 1309 | Computer and Information Technology Concepts | 3 |

**MAJOR CORE COURSES** **Credits** 33

| | | |
|---|---|---|
| COP 1000 * | Introduction to Computer Programming | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| CTS 2417 | Data Visualization Techniques | 3 |
| CTS 2433 | SQL Database Design & Programming | 3 |
| CTS 2450 | Introduction to Business Intelligence | 3 |
| CTS 2455 | Data Modeling and Logical Design | 3 |
| CAP 2762 | Introduction to Data Mining | 3 |
| STA 2023 | Elementary Statistics | 3 |
| STA 2041 | Data Analysis & Statistical Modeling | 3 |
| COP 1044 | Introduction to Data Science using Python | 3 |
| | | 3 |
| CAP 2940 | Data Science Internship | 3 |
| OR | | |
| CIS 2950 | Computer Science Capstone Experience | 3 |

*Students should be comfortable with basic algebra and problem-solving tasks. It is recommended that students complete College Algebra (MAC 1105) before enrolling in COP 1000

Total: 60

**Program Learning Outcomes**

1. Apply data science concepts and analytical methods to solve problems in real-world contexts and communicate these solutions.
2. Describe and apply ethical and security best practices for each phase of acquisition, analysis, and retention of data.
3. Summarize and explain a real-world experience with a major-related, supervised and evaluated practical work experience internship.

## Dental Hygiene (DENH-BAS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351060200)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should

visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** SPC's Bachelor of Applied Science degree in Dental Hygiene is the first and only bachelor's degree program in dental hygiene in Florida and is one of the largest degree completion programs in the nation. This online program can help licensed dental hygienists improve their career opportunities in management, sales, public/community health, interprofessional health care disciplines, and academia. This degree completion program is for licensed dental hygienists who want to progress from their associate to bachelor's degree. - Offered completely online program - no campus or residency requirements - Discussion boards foster professional camaraderie - Courses are offered one at a time for six to eight weeks - Students are accepted during the fall and spring and progress through the program together in a cohort - A capstone course, which lasts 14 weeks, integrates career interests through teaching, interning or observing.

**Estimated total program cost: $8,438.22**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **ADMISSIONS COURSES**<br>**General Education Courses** | **Credits** 36 |
|---|---|
| A.S. degree students are required to complete the thirty-six (36) credit general education requirement of St. Petersburg College. Refer to the College Catalog for a list of specific courses for each category below. General education courses completed during lower or upper division education must total a minimum of thirty-six (36) credits | |
| A. COMMUNICATIONS | 9 |
| B. HUMANITIES/FINE ARTS | 6 |
| C. MATHEMATICS | 6 |
| D. NATURAL & PHYSICAL SCIENCES | 6 |
| E. SOCIAL AND BEHAVIORAL SCIENCES | 6 |
| F. ETHICS | 3 |
| G. COMPUTER/INFORMATION LITERACY COMPETENCY | |

| **STATE MANDATED PREREQUISITES**<br>**State Mandated Prerequisites** | **Credits** |
|---|---|

There are no State Mandated Prerequisites at this time.

| **ADMISSION REQUIREMENTS**<br>**Lower Division Dental Hygiene** | | **Credits** 44 |
|---|---|---|
| Transfer credits | | 44 |

| **MAJOR CORE COURSES**<br>**Major Requirements (Complete 34 credits)** | | **Credits** 34 |
|---|---|---|
| DEH 3730 | Dental Hygiene Educational Concepts | 3 |
| DEH 3813 | Contemporary Issues in Dental Hygiene | 4 |
| DEH 3814 | Introduction to Dental Hygiene Research | 4 |
| DEH 4607 | Advanced Periodontics | 4 |
| DEH 4851 | Practice Management for the Dental Hygienist | 3 |
| DEH 4852 | Advanced Ethics in Dental Hygiene | 3 |
| DEH 4854 | Leadership in Dental Hygiene | 3 |
| DEH 4947 | Dental Hygiene Capstone | 7 |
| HSC 3201 | Community Health and Epidemiology | 3 |

| **MAJOR ELECTIVE COURSES**<br>**Elective Courses (Select 6 credits)** | | **Credits** 6 |
|---|---|---|
| HSA 4191 | Health Information Systems | 3 |
| HSA 4502 | Health Care Risk Management | 3 |
| HSC 4640 | Legal & Ethical Aspects of Health Care | 3 |
| HUS 3370 | Issues In Mental Health | 3 |
| MAR 4413 | Sales and Customer Relationship Management | 3 |
| PAD 4232 | Grant Administration & Resource Development | 3 |
| HUS 4442 | Substance Abuse and the Family | 3 |
| HUS 4561 | Social Problems and Policy | 3 |
| MAN 3802 | Principles of Entrepreneurship | 3 |
| MAN 3301 | Public Personnel Management | 3 |
| ISM 3011 | Management Information Systems | 3 |

Total: 120

**Program Learning Outcomes**

1. Acquire knowledge and develop skills that will increase opportunity for positions of responsibility in a variety of professional settings.
2. Enhance communication abilities and develop critical thinking skills for successful performance and progress in the dental hygiene profession.
3. Gain knowledge in a technologically advanced manner to facilitate commitment to lifelong learning for the promotion of personal and professional growth.
4. Develop ethical leadership skills and facilitate team building within learning communities to adapt to the ever evolving aspects of the dental hygiene profession.

## Dental Hygiene (DENHY-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351060200)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should

visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

Fully transferable to Dental Hygiene or Health Services Administration BAS programs at SPC. Program begins every year in May.

**Estimated total program cost: $24,537.2**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| | |
|---|---|
| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 15 |
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. Completing HUM 1020 will also satisfy the Enhanced World View Requirement | |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |

| | | |
|---|---|---|
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | | 0 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES: Anatomy & Physiology** **Credits** 8
**Complete 8 credits**

| | | |
|---|---|---|
| Completion of this requirement satisfies the General Education Natural Science Core requirement for this AS degree. | | |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |

**SUPPORT COURSES** **Credits** 4
**Microbiology (Complete 4 credits)**

| | | |
|---|---|---|
| MCB 2010 | Microbiology | 3 |
| MCB 2010L | Microbiology Laboratory | 1 |

**SUPPORT COURSES** **Credits** 3
**Psychology (Select 3 credits)**

| | | |
|---|---|---|
| Completion of this requirement satisfies the General Education Social and Behavioral Science requirement for this AS degree. | | |
| PSY 1012 | General Psychology | 3 |
| PSY 1012H | Honors General Psychology | 3 |

**MAJOR CORE COURSES** **Credits** 6
**1st Summer Term (Complete 6 credits)**

| | | |
|---|---|---|
| DEH 1000 | Introduction to Dental Hygiene | 2 |
| DES 1020 | Orofacial Anatomy | 2 |
| DES 1020L | Orofacial Anatomy Laboratory | 1 |
| DES 1601 | Emergencies in Dental Hygiene | 1 |

**MAJOR CORE COURSES** **Credits** 13
**1st Fall Term (Complete 13 credits)**

| | | |
|---|---|---|
| DEH 1003 | Dental Hygiene I | 2 |
| DEH 1003L | Dental Hygiene I Clinic | 4 |
| DEH 1130 | Oral Histology and Embryology | 2 |
| DES 1200 | Dental Radiography | 2 |
| DES 1200L | Dental Radiography Laboratory | 1 |
| DEH 1720 | Preventive Dentistry | 2 |

**MAJOR CORE COURSES** **Credits** 12
**1st Spring Term (Complete 12 credits)**

| | | |
|---|---|---|
| DEH 1710 | Biological Chemistry & Applied Nutrition | 1 |
| DEH 1800 | Dental Hygiene II | 2 |
| DEH 1800L | Dental Hygiene II Clinic | 4 |
| DES 2100 | Dental Materials | 2 |
| DES 2100L | Dental Materials Laboratory | 1 |
| DEH 2602 | Periodontics I | 2 |

**MAJOR CORE COURSES** **Credits** 6
**2nd Summer Term (Complete 6 credits)**

| | | |
|---|---|---|
| DEH 2300 | Dental Pharmacology | 2 |
| DEH 2802L | Dental Hygiene III Clinic | 3 |
| DEH 2802 | Dental Hygiene III | 1 |

**MAJOR CORE COURSES** **Credits** 11
**2nd Fall Term (Complete 11 credits)**

| | | |
|---|---|---|
| DEH 2400 | General and Oral Pathology | 2 |
| DEH 2701 | Community Dental Health | 3 |
| DEH 2804L | Dental Hygiene IV Clinic | 4 |
| DEH 2804 | Dental Hygiene IV | 2 |

**MAJOR CORE COURSES** **Credits** 10
**2nd Spring Term (Complete 10 credits)**

| | | |
|---|---|---|
| DEH 2702C * | Community Dental Health Practicum | 1 |
| DEH 2806L | Dental Hygiene V Clinic | 5 |
| DEH 2806 | Dental Hygiene V | 2 |
| DEH 2604 | Periodontics II | 2 |

*DEH 2702C is also offered in the 2nd Fall Term internationally as a Learning Abroad in Jamaica Practicum for selected students.

Total: 88

**Program Learning Outcomes**

1. The student will identify the anatomic structures including the human body, dental anatomy, tooth morphology, histology and embryology.
2. The student will identify the principles of physiology, biochemistry and nutrition and how they relate to dental hygiene care.

3. The student will describe the microbial count in periodontal disease and pathological conditions as well as the bodys response to such invaders.
4. The student will analyze pathological disease conditions and how they relate to dental hygiene care and patient mortality.
5. The student will recognize the drugs commonly encountered in the dental office as well as their dosages, administration, contraindications and indications.
6. The student will describe and utilize current methodologies of assessment, prognosis and treatment planning for dental hygiene care.
7. The student will describe the theoretical knowledge of radiography and demonstrate the ability to identify and interpret dental radiographs.
8. The student will describe all the components in the management of dental hygiene care.
9. The student will describe classifications and features of periodontal diseases which will include etiological factors, contributing factors, host responses and treatments involved with the initiation and progression of periodontal disease.
10. The student will identify and describe the agents available to patients for the prevention of dental disease.
11. The student will identify the roles and uses of supportive treatment in the comprehensive dental hygiene care of a patient.
12. The student will describe and utilize professional responsibility which includes ethical principles, regulatory compliance and both patient and professional communication.
13. The student will demonstrate an understanding of the principles of public health and the methodologies needed to present these concepts to the community.
14. The student will apply their comprehensive knowledge of dental hygiene care through dental hygiene cases.

## Digital Forensics and Computer Investigations (DIGFORN-AS)

**Program Summary**

**Effective Catalog Term: Summer 2023 (620) through Spring 2028 (690) (CIP#1743040300)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

*****THIS PROGRAM IS NO LONGER ACCEPTING STUDENTS. LAST ADMISSION TERM IS SUMMER 2023 (0620)*** → Students who wish to pursue Digital Forensics and Computer Investigations may enroll in the Public Safety A.S. (CJPSS-AS) program with a declared subplan of Digital Forensics and Computer Investigations (DIGFORN).**

**This program is offered as a Fully Online program.** This is a professional training program which will provide the student with skills in researching, investigating, using computer software, interpreting laws, and using the Internet as an investigative tool. The goal of this program is to prepare successful students for careers in corporate computer security investigation or similar careers in computer security and law enforcement. Also the courses have been aligned with industry certifications.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 18
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | |
| POS 2041 American National Government | 3 |
| POS 2041H Honors American National Government | 3 |
| AMH 2020 History of the United States II | 3 |
| AMH 2020H Honors History of the US II | 3 |

**MAJOR CORE COURSES** **Credits** 42
**Complete 42 credits**

| | |
|---|---|
| CCJ 1020 Introduction to Criminal Justice | 3 |

| | | |
|---|---|---|
| CJE 1680 | Introduction to Computer Related Crime Investigations | 3 |
| CJE 1681 | Internet as an Investigative Tool | 3 |
| CJE 1669 | Identity Theft Investigations | 3 |
| CJE 1682 | Tracking and Profiling Hackers, Pedophiles and Internet Stalkers | 3 |
| CJE 1684 | Internet Fraud Investigations | 3 |
| CJE 1685 | Legal Aspects of Computer Related Criminal Investigations | 3 |
| CJE 1686 | Forensic Computer Related Crime Investigations | 3 |
| CJE 1687 | Computer Software Piracy and Copyright Infringement | 3 |
| CET 1171C | Computer Repair Essentials | 3 |
| CET 1172C | Computer Support Technician | 3 |
| CIS 1358 | Operating System Security | 3 |
| CIS 2352 | Ethical Hacking | 3 |
| CTS 1120 | Network Security Foundations | 3 |

Total: 60

**Program Learning Outcomes**

1. The student will utilize industry-standard computer forensic software and hardware to collect, analyze and evaluate evidence data.
2. The student will utilize different operating systems and network systems to identify, retrieve and recover files on various types of storage devices.
3. The student will apply criminal investigation techniques to a variety of computer forensic investigations.
4. The student will collect digital evidence and research a possible criminal or civil infraction.
5. The student will conduct digital investigations while applying legal, regulatory, and ethical considerations.

## Digital Graphic (DIG-CT)

**Program Summary**

**Effective Catalog Term: Fall 2010 (430) through Fall 2025 (655) (CIP#0650010208)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

Based upon equipment and demand, some computer courses may be taught at only one site.

SPC's digital media certificates are considered "stackable" and require sequential completion. PRIOR TO ENROLLING IN THE DIGITAL GRAPHIC CERTIFICATE STUDENTS MUST COMPLETE ALL COURSEWORK IN THE DIGITAL MEDIA/MULTIMEDIA FOUNDATIONS CERTIFICATE (15 CREDITS). Prior to enrolling in the Digital Graphic certificate students must complete all foundational courses in the Digital Media MultiMedia Foundations.

The Digital Graphic Certificate prepares students to work with computer technology for desktop design, publishing and presentations. Learning the latest technological advances in digital media including innovations in 2-D, motion graphics and interactive web, students earning this certificate will be qualified to work in secretarial, technical, design and professional positions in which the ability to create Web-based, digital media and print quality graphics is required.

This program is aimed for the degreed student, for employee enrichment and for individuals currently working in the field who wish to update and broaden their design and computer skills.

All courses apply toward the AS degree in Digital Arts, Media and Interactive Web Design,-Digital Media Production subplan.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 15 |
|---|---|---|
| DIG 2116 | Advanced Digital Image Editing | 3 |
| DIG 2117 | Advanced Digital Image Rendering | 3 |
| DIG 2132 | Electronic Media Design | 3 |
| GRA 1206 | Typography | 3 |
| GRA 2201 | Advanced Digital Publishing | 3 |

Total: 15

**Program Learning Outcomes**

1. Create, alter and/or adjust presentations utilizing a variety of digital media/multimedia technologies.
2. Design and generate video and/or animations in multimedia project(s).
3. Utilize/Create/Produce audio technology for digital media/multimedia project(s).
4. Use computer applications for digital media/multimedia projects.
5. Produce digital media/multimedia projects.

## Digital Media (DIG-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Fall 2025 (655) (CIP#1611080103)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Digital Media program at St. Petersburg College meets the needs of one of the fastest growing sectors in the computer industry. Digital Media pertains to the convergence of communication technologies, including television, the World Wide Web, and computer-based interactivity and nonlinear structure. It extends well beyond the scope of the business world. Interactive games, education, CD-ROMs, DVDs, digital video, and dynamic Websites are changing the way we learn and entertain ourselves. The Digital Media program was created in partnership with skilled and talented professionals drawing on their leadership in digital technology. The program was also designed in collaboration with the Interactive Media Technology Project consortium commissioned to update the Student Performance Standards and Curriculum Frameworks for AS/AA degrees throughout Florida. Students enrolled in the program not only receive a well-rounded general education with an emphasis on originality and creativity, but also acquire the specific skills essential to working in today's digital media industry and the future.

Graduates from this program will be able to start careers in digital media production, digital video, instructional integration, interactive and educational media production and other areas utilizing digital media technology. Each graduate will be required to create an industry standard digital portfolio that meets the approval of staff and

advisory committee member(s). The program is open to all students who show an interest in digital media and who complete the general college admission procedures.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 18
**AS Gen Ed**

*AS GENERAL EDUCATION REQUIREMENTS - Communications - Composition- Core* 3
Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree.

*AS GENERAL EDUCATION REQUIREMENTS - Humanities and Fine Arts-Core* 3
Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Mathematics-Core* 3
Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Natural Sciences - Core* 3
Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. Completing any course with an "L" or "C" in the number will also satisfy the Natural Sciences Laboratory requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Social and Behavioral Sciences- Core* 3
Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Ethics* 3
Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Computer/Information Literacy Competency*
Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required.

*AS GENERAL EDUCATION REQUIREMENTS - Enhanced World View*

Complete at least one 3-credit course from the approved General Education Enhanced Worldview course list. This requirement is intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Civic Literacy* 0

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**MAJOR CORE COURSES** **Credits** 24
**Complete 24 credits**

Minimum grade of C or better required in all courses.

| | | |
|---|---|---|
| DIG 1004 | Exploration of Media Tools | 3 |
| DIG 2000 | Introduction to Digital Media | 3 |
| DIG 2183 | Digital Drawing | 3 |
| DIG 2131 | Digital Art and Design | 2 |
| DIG 2091 | Legal Issues in Media Development | 2 |
| DIG 2109 | Digital Imaging Fundamentals | 3 |
| DIG 2251 | Sound For Media | 2 |
| DIG 2311 | Motion Graphics I | 3 |
| DIG 2545 | Media Planning | 2 |
| DIG 2940 | Digital Arts Internship | 1 |

**MAJOR ELECTIVE COURSES** **Credits** 3
**Select 3 credits.**

| | | |
|---|---|---|
| DIG 2030 | Survey of Digital Video | 3 |
| DIG 2100 | Web Design I | 3 |

**SUBPLAN** **Credits** 15
**Select one subplan below (Complete 15 credits)**
**SUBPLAN CORE COURSES**
**Digital Graphic Design (DIG) (Complete 15 credits)**

| | | |
|---|---|---|
| DIG 2116 | Advanced Digital Image Editing | 3 |
| DIG 2117 | Advanced Digital Image Rendering | 3 |
| DIG 2132 | Electronic Media Design | 3 |
| GRA 1206 | Typography | 3 |
| GRA 2201 | Advanced Digital Publishing | 3 |

**SUBPLAN CORE COURSES**
**Digital Video Production (DVPRD) (Complete 15 credits)**

| | | |
|---|---|---|
| DIG 2200 | Basic Video Camera | 3 |
| DIG 2205 | Basic Video Editing | 3 |
| DIG 2284 | Advanced Videography | 3 |
| DIG 2290 | Studio Production & Direction | 3 |
| DIG 2410 | Basic Scripting for Videos | 3 |

Total: 60

**Program Learning Outcomes**

1. MECHANICAL: The students will design and create mechanically sound digital portfolios to showcase their best works. The portfolios will be free of technical problems, easy to navigate as well as adhere to the rules of Standard English, proper punctuation and correct grammar.
2. ELEMENTS: The students will create an effective interface which invites viewers to explore a deeper level of technical accessibility to enrich the design as well as the students' ability and creativity.
3. STRUCTURE: The students will apply logical sequencing of information enabling the viewer to hyperlink and control a portfolio's environment, using communication elements, and movement alternatives (i.e. it should be user friendly).
4. CONTENT: The student will produce a professional portfolio with sufficient information in a concise, original design to validate their skills and abilities.

## Digital Media (DIGME-BAS)

**Program Summary**

**Effective Catalog Term: Fall 2025 (655) through Summer 2026 (665) (CIP#1101003041)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

Digital designers and videographers perform works for visual storytelling, advertising content, editorial content, and client-based assignments. A graphic designer creates images and manipulates them, while a video editor creates a story using images, titles, logo, graphs, charts, maps etc., created by digital/graphic designers. Both professions utilize their knowledge and skills to expand and focus on digital applications. The Bachelor of Applied Science in Digital Media at SPC provides Pinellas County residents the opportunity to earn a professional degree complimenting the traditional workforce emphasis of baccalaureate programs in state colleges by offering upward mobility into leadership/management positions for two-year graduates who are working locally in fields such digital media, graphic design, video, and production.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSION REQUIREMENTS** **Credits** 60

Complete a minimum of 60 credits from a regionally accredited institution, including -

- 15 credits of general education courses;
- ENC 1101 - Composition I or equivalent;
- College-level math course: MAT 1033, MAT 1100, STA 2023/H, or any course with MAC, MGF, or MAS prefix

**STATE MANDATED PREREQUISITES**
**State Mandated Prerequisites**

No State Mandated Prerequisites are required.

**ADMISSIONS COURSES** **Credits** 20
**Lower Division Support Courses (20 credits)**

*Students admitted to the program without an AS in a digital media related field or a minimum of 20 credits in digital media related courses may need to complete additional lower division coursework.*

| | | |
|---|---|---|
| ART 1201C | Design I | 3 |
| OR | | |
| DIG 2131 | Digital Art and Design | 2 |
| AND | | |
| GRA 1206 | Typography | 3 |
| OR | | |
| DIG 2284 | Capstone: Advanced Videography | 3 |
| AND | | |
| DIG 2117 | Advanced Digital Image Rendering | 3 |
| OR | | |
| DIG 2311 | Motion Graphics I | 3 |
| AND | | |
| DIG 2200 | Basic Video Camera | 3 |
| OR | | |
| PGY 2800C | Digital Photography | 3 |
| AND | | |
| ART 1300C | Drawing I | 3 |
| OR | | |
| DIG 2183 | Digital Drawing | 3 |
| **AND** | | |
| DIG 2030 | Survey of Digital Video | 3 |
| DIG 2109 | Digital Imaging Fundamentals | 3 |

**MAJOR CORE COURSES** **Credits** 25
**Complete 25 credits.**

GRADE OF "C" OR BETTER REQUIRED FOR ALL UPPER DIVISION COURSES

| | | |
|---|---|---|
| DIG 3110C | Media Production Fundamentals | 3 |
| DIG 3293C | Media Production for Video | 3 |
| DIG 3823C | Creative Digital Media Problem Solving | 4 |
| DIG 4595C | Portfolio Development | 3 |
| GRA 3104C | Advanced Visual Design Processes | 3 |
| GRA 3816C | Conceptional Thinking | 3 |
| GRA 4138C | Capstone: Digital Media Campaigns | 3 |
| GRA 4423 | Business of Digital Media | 3 |

**MAJOR ELECTIVE COURSES** **Credits** 15

**Complete a minimum of 15 elective credits from the provided list or any other upper division DIG or GRA courses not already applied to the degree.**

| | | |
|---|---|---|
| DIG 3119C | Digital Illustration | 3 |
| DIG 4138C | Digital Imagery | 3 |
| DIG 4451C | Visual Storytelling & Development | 3 |
| DIG 4521 | Project Methodologies | 3 |
| DIG 4943 | Digital Media Internship | 2 |
| EGS 3100 | Iterative Design Method | 3 |
| GRA 4139C | Time-Based Design | 3 |

Total: 120

**Program Learning Outcomes**

1. Creativity and Concept Development: Students will be able to generate and refine concepts through a structured design process by applying research, brainstorming, the elements and principles of design, and a cycle of iterative feedback when constructing completed design projects that meet client needs.
2. Technical Proficiency in Multiple Areas of Digital Media: Students will be able to evaluate and use appropriate raster, vector, page layout, web, video, and time-based industry-standard software applications to create high-quality, visual solutions for multiple forms of digital media like graphic design, video production, UI/UX, motion graphics, social media, digital storytelling, and illustration.
3. Effective Communication: Students will be able to explain design concepts, present their work effectively, defend design decisions, and collaborate with various audiences, including clients and team members, throughout the creative process.
4. Business Practices / Ethical and Professional Standards: Students will be able to implement project management principles and ethical business practices in digital media production to analyze a client brief, draft business forms, track project processes, communicate with clients, and present a finished design.

## Digital Media Video Production (DVPRD-CT)

**Program Summary**

**Effective Catalog Term: Fall 2016 (520) through Fall 2025 (655) (CIP#0609070210)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate is designed to prepare students to produce complex digital video tape presentations for 'on' or 'off' air. Students will be exposed to hands-on training in several aspects of digital videography including: professional video camera operation, on and off-line editing, scripting, lighting, program directing and producing.

All courses apply towards the AS degree in Digital Arts, Media and Interactive Web Design – Digital Video

Production subplan. Some courses may require a prerequisite that must be met by the student.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 12 |
|---|---|---|
| DIG 2030 | Survey of Digital Video | 3 |
| DIG 2200 | Basic Video Camera | 3 |
| DIG 2205 | Basic Video Editing | 3 |
| DIG 2284 | Advanced Videography | 3 |
| | Total: 12 | |

**Program Learning Outcomes**

1. Design and generate video and/or animations in multimedia projects.
2. Produce digital media/multimedia projects.

## Digital Media/Multimedia Foundations (DMFND-CT)

**Program Summary**

**Effective Catalog Term: Spring 2016 (510) through Fall 2025 (655) (CIP#0610010507)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Digital Media/Multimedia Foundations certificate program introduces students to one of the fastest growing sectors in the computer industry. It is the foundational certificate for the Digital Arts, Media and Interactive Web Design (DIG-AS) program. Digital Media pertains to the convergence of communication technologies, including television, the World Wide Web, and computer-based interactivity and nonlinear structure. It extends well beyond the scope of the business world. Interactive games, education, CD-ROMs, DVDs, digital video, and dynamic Websites are changing the way we learn and entertain ourselves. The program was created in partnership with skilled and talented professionals drawing on their leadership in digital technology. The program was also designed in collaboration with the Interactive Media Technology Project consortium commissioned to update the Student Performance Standards and Curriculum Frameworks for AS/AA degrees throughout Florida. Students enrolled in the program not only get on track to receive a well-rounded general education with an emphasis on originality and creativity, but also acquire the specific skills essential to working in today's digital media industry and the future.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 15
**Complete 15 credits:**

| | | |
|---|---|---|
| DIG 1004 | Exploration of Media Tools | 3 |
| DIG 2000 | Introduction to Digital Media | 3 |
| DIG 2100 | Web Design I | 3 |
| DIG 2109 | Digital Imaging Fundamentals | 3 |
| DIG 2030 | Survey of Digital Video | 3 |

Total: 15

**Program Learning Outcomes**

1. Use industry standard digital media/multimedia hardware and software.
2. Create, alter and/or adjust presentations utilizing a variety of digital media/multimedia technologies.
3. Design and generate video and/or animations in a multimedia project(s).
4. Utilize/create/produce audio technology for digital media/multimedia project(s).
5. Use computer applications for digital media/multimedia projects.
6. Produce digital media/multimedia projects.

## Digital Photography (PGY-CT)

**Program Summary**

**Effective Catalog Term: Fall 2021 (595) through Fall 2025 (655) (CIP#0650060501)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The photography certificate is designed to equip students with the essentials and basic skill sets to succeed in the photographic industry. The program will prepare students in marketing their specific photographic brand, and the ability to conceptualize their clients objective needs, and deliver a technically proficient photographic product to them. The photography courses provide a diverse range of subject matter including: camera operation for still and video, various still and motion software enhancement programs, both natural and artificial lighting applications, composition, posing, table top, advertising and commercial applications, video production, critical thinking and thematic assignments, all leading to the development to a portfolio upon completion of the certificate.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 22 |
|---|---|---|
| PGY 2800C | Digital Photography | 3 |
| PGY 2404C | Intermediate Photography | 3 |
| PGY 2210C | Professional Studio Portraiture | 4 |
| PGY 2750C | Introduction to Video Production | 3 |
| DIG 2115C | Digital Imaging | 3 |
| PGY 2201C | Photography Studio Lighting | 3 |
| PGY 2470C | Themes for Photographers | 3 |
| | | Total: 22 |

**Program Learning Outcomes**

1. Students will plan and execute professional photographic sessions that produce high-quality images aligned with specific client needs and creative objectives.
2. Students will set up studio equipment, manage lighting configurations, and organize workflow in a professional studio environment.
3. Students will apply knowledge of photography workflows and file management when working collaboratively with video production, social media, graphic design and other media production teams.
4. Students will design, capture, and edit photographic content optimized for targeted social media platforms to enhance audience engagement and brand identity.
5. Students will apply foundational post-production skills including color correction, retouching, adjusting resolution, preparing images for various media outputs and other industry standard requirements.

## Early Child Development (CHDEV-CT)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#0419070904)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Early Child Development Certificate (CHDEV-CT) coursework is part of an A.A. transfer pathway to several degree options in the College of Education. After you complete the appropriate A.A. transfer pathway, you can transfer into our Bachelor of Science Prekindergarten/Primary degree, which leads to certification in the state of Florida, or our Bachelor of Science degree Educational Studies and Community Leadership - Preschool Track.

**Estimated total program cost: $5,157.59**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 36
**Complete 36 credits**

| | | |
|---|---|---|
| ENC 1101 [1] | Composition I | 3 |
| SPC 1608 [2] | Public Speaking | 3 |
| PHI 1600 [3] | Introduction to Ethics | 3 |
| HUM 1020 [4] | Introduction to Humanities | 3 |
| EEC 1223 | Observation and Assessment in Early Childhood | 3 |
| EEC 1512 | Caring for Infants and Toddlers | 3 |
| EEC 1600 | Guiding the Young Child | 3 |
| EEC 1603 | Early Childhood Development | 3 |
| EEC 2271 | Introduction to Working with Young Children with Special Needs | 3 |
| EEC 2300 | Developing Cognitive Activities for Young Children(Math, Lnge Arts, Science, Social Studies, Health) | 3 |
| EEC 2312 | Developing Creative Activities for Young Children | 3 |
| EEX 2010 | Introduction to Exceptional Learners | 3 |

[1]Completion of this course with a minimum grade of "C" satisfies 3 credits of the General Education Communications (core) requirement.
[2]Completion of this course with a minimum grade of "C" satisfies 3 credits of the General Education Speech requirement.
[3]Completion of this course with a minimum grade of "C" satisfies 3 credits of the General Education Ethics requirement.
[4]Completion of this course with a minimum grade of "C" satisfies 3 credits of the General Education Humanities (core) requirement.

Total: 36

**Program Learning Outcomes**

1. Students will demonstrate knowledge of early childhood education.
2. Students will develop cognitive and creative activities for early childhood learners.
3. Students will gain knowledge of how to build positive relationships with children, families, and communities.

## Educational Studies and Community Leadership (EDST-BS)

**Program Summary**

**Effective Catalog Term: Fall 2023 (625) through Fall 2025 (655) (CIP#1013999901)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should

visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** Our Bachelor of Science in Educational Studies and Community Leadership is an interdisciplinary program. Students seeking jobs in non-school settings benefit from portions of the essential knowledge and skills associated with the field of education. The Educational Studies and Community Leadership major has been specifically designed for students who want to deepen their understanding of the learning and teaching process, yet seek careers in non-school settings.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| | |
|---|---|
| AA GENERAL EDUCATION REQUIREMENTS | Credits |
| AA Gen Ed | |
| AA GENERAL EDUCATION REQUIREMENTS | Credits 60 |
| **STATE MANDATED PREREQUISITES** | **Credits** |

There are no State Mandated Prerequisites at this time.

| | | |
|---|---|---|
| **MAJOR CORE COURSES** | | **Credits** 23 |
| **Complete 23 credits** | | |
| EDF 3152 | Nature of the Learner | 3 |
| EDF 3660 | Education and Public Policy in the United States | 3 |
| EDF 4632 | Sociology of Education | 3 |
| EDF 4650 | Health, Safety, & Ethics in Youth & Family Settings | 2 |
| EDF 4810 | Comparative and International Education | 3 |
| GEB 3213 | Business Communication for Professional Effectiveness | 3 |
| MAN 4102 | Management of Cultural Dynamics | 3 |
| TSL 3080 | ESOL Issues: Principles and Practices I K - 12 | 3 |

| | | |
|---|---|---|
| **SUBPLAN** | | **Credits** 37 |
| **Select ONE subplan from below (Complete 37 credits)** | | |
| **SUBPLAN CORE COURSES** | | |
| **Interdisciplinary Studies (IDS) (Complete 37 credits)** | | |
| EDF 4604 | Education in America | 3 |
| EDF 3214 | Student Development and Learning Principles K-12 | 2-3 |
| EDF 4084 | Cultural & Social Foundations of Education | 3 |
| EDF 4731 | Youth Administration & Leadership Communication Techniques | 3 |
| EDF 4754 | Theoretical & Practical Issues in Education | 3 |
| EEX 3012 | Nature and Needs of Exceptional Students K-12 | 3 |
| MAN 3301 | Public Personnel Management | 3 |

| | | |
|---|---|---|
| MAN 4625 | Managing Global Human Resources | 3 |
| PAD 4232 | Grant Administration & Resource Development | 3 |
| EDF 4123 | Design & Implementation of Youth Programs | 3 |
| EDF 4430 | Measurement, Evaluation and Assessment in Education K-12 | 3 |
| EDG 4940 | EDST Internship | 5 |

**SUBPLAN CORE COURSES**
**Preschool Education (Birth to Age 4) (PREEDU) (Complete 37 credits)**

| | | |
|---|---|---|
| EEC 3005 | Child Growth and Development in Early Childhood | 3 |
| EEC 3009 | Foundations of Early Childhood and Education | 3 |
| EEC 3204 | Curriculum in Early Childhood Education | 3 |
| EEC 3403 | Young Children with Special Needs | 3 |
| EEC 3413 | Working With Families in Early Childhood Education | 3 |
| EEC 4207 | Assessment and Evaluation of Young Children | 3 |
| EEC 4212 | STEM in Early Childhood | 3 |
| EEC 4227 | Creative Arts for Early Childhood Education | 3 |
| EEC 4408 | Family, Teacher, and Community Relations in Early Childhood Education | 3 |
| EEC 4706 | Early and Emergent Literacy in Early Childhood | 3 |
| EEC 3266 | Program Planning for Infants & Toddlers | 3 |
| EEC 4948 | Early Childhood Education Internship | 4 |

**SUBPLAN CORE COURSES**
**Educational Interpreting (SLIP) (Complete 37 credits)**

| | | |
|---|---|---|
| EDF 4430 | Measurement, Evaluation and Assessment in Education K-12 | 3 |
| INT 3004 | Fundamentals of Interpreting | 3 |
| INT 3205C | Introduction to Interpreting | 4 |
| INT 4260 | Simultaneous Interpreting Skills | 4 |
| INT 3406 | Sign to Voice (ASL/English) Interpreting | 3 |
| INT 3270 | Consecutive Interpreting Skills | 4 |
| INT 3407 | Advanced Sign to Voice (ASL/English) Interpreting | 3 |
| INT 4211 | Transliterating | 3 |
| INT 3404 | Advanced ASL Interpreting and Translation in Educational Settings | 3 |
| INT 3403 | Issues in Educational Interpreting | 3 |
| INT 4944 | Interpreting Internship | 4 |

**SUBPLAN CORE COURSES**
**Training and Development (TRNDEV) (Complete 37 credits)**

| | | |
|---|---|---|
| EME 4048 | Designing for Learning Platforms | 3 |
| EME 4232 | Intermediate Applications of Technology for Educators | 3 |
| EME 4312 | Educational Technology for 21st Century Teaching | 3 |
| EME 4610 | Emerging Trends in eLearning | 3 |
| EME 4673 | Foundations of Instructional Design | 3 |
| EDF 4604 | Education in America | 3 |
| EDF 4731 | Youth Administration & Leadership Communication Techniques | 3 |
| EDG 3661 | Adult Learning Theory & Curriculum Development | 3 |
| EDG 4940 | EDST Internship | 5 |
| MAN 3301 | Public Personnel Management | 3 |
| MAN 4625 | Managing Global Human Resources | 3 |
| PAD 4232 | Grant Administration & Resource Development | 3 |

Total: 120

**Program Learning Outcomes**

1. Students will compare the similarities and differences in the educational systems in various nations in terms of socio-political, economic, cultural, ideological, historical and other contexts by describing the structure, governance and administration of the educational systems in the United States of America and other countries throughout the globe. EDF 4810
2. Students will evaluate contemporary issues that impact youth and/or community education by analyzing the influence of various laws, policies, theories, historical events, and systemic structures on youth and community education programs. EDF 3660
3. Students will explain the laws, regulations, standards, policies, and procedures related to health, safety, nutrition, and ethics in youth and community programs. EDF 4650
4. Students will practice continuous professional improvement by designing professional goals consistent with private, public, and community-based organizations and engaging in targeted professional growth opportunities and reflective practices. EDF 3152
5. Students will summarize the field of education and explain the basic functions of education: socialization, transmission of culture, social control and personal development; selection, training, and placement, teaching discipline, socialization, learning communication skills, problem solving, and decision making. EDF 46

## Educator Preparation Institute (EPI) (EPI-CT)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Fall 2025 (655) (CIP#5551399990)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Educator Preparation Institute Certificate is a state approved program that is offered fully online and leads to a Florida Professional Teaching Certification. The program includes a 60-hour practicum in the fall semester and a full-time 10-week internship in the final semester that can be completed in any school district in Florida. The EPI program begins in the summer, continues in the fall and finishes in the spring.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 26
**Complete 27 credits**

| | | |
|---|---|---|
| EDF 4264 | Learning Theory and Instruction | 3 |
| EDF 4444 | Assessment in the Curriculum | 2 |
| EDF 4930 | EPI Capstone Seminar | 3 |
| EDF 4944 * | EPI Practicum | 2 |

| | | |
|---|---|---|
| EDF 4949 * | EPI Internship | 4 |
| EDG 4419 | Building Classroom Management and Discipline | 3 |
| EEX 4084 | Differentiated Instruction of Exceptional and Diverse Students | 3 |
| RED 4043 | Reading within the Disciplines 5-12 | 3 |
| TSL 4140 * | Curriculum Development in ESOL | 3 |

*Explanation of School-based hours (SBH): Some EPI courses contain assignments which require students to spend time in a public school classroom. This classroom time is identified in the above curriculum as SBH (school based hours). Students also complete a ten week Internship course which requires them to spend five full days in an assigned classroom for the duration of this ten week internship. The College of Education coordinates the placements for all student field experiences.

Total: 26

**Program Learning Outcomes**

1. Teacher candidates will design curriculum that includes appropriate knowledge of core content and pedagogy.
2. Teacher candidates will design a variety of assessments to measure student learning and improve student success.
3. Teacher candidates will establish a collaborative and student-centered classroom.
4. Teacher candidates will utilize knowledge and skills gained from professional development opportunities in their classrooms.

## Educator Preparation Institute (EPI) with Reading Endorsement (EPIR-CT)

**Program Summary**

**Effective Catalog Term: Summer 2022 (605) through Fall 2025 (655) (CIP#5551399990)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Educator Preparation Institute Certificate is a state approved program that is offered fully online and leads to a Florida Professional Teaching Certification. The program includes a 60-hour practicum in the fall semester and a full-time 10-week internship in the final semester that can be completed in any school district in Florida. The EPI program begins in the summer, continues in the fall and finishes in the spring.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 33
**Complete 34 credits**

| | | |
|---|---|---|
| EDF 4264 | Learning Theory and Instruction | 3 |
| EEX 4084 | Differentiated Instruction of Exceptional and Diverse Students | 3 |
| EDG 4419 | Building Classroom Management and Discipline | 3 |
| RED 4654 | Foundations and Applications of Differentiated Instruction | 3 |
| RED 4342 | Foundations of Research Based Practices of Reading Education and Application of Instruction | 3 |
| RED 4541 | Foundations of Reading Assessment | 3 |
| EDF 4944 * | EPI Practicum | 2 |
| TSL 4140 * | Curriculum Development in ESOL | 3 |
| EDF 4444 | Assessment in the Curriculum | 2 |
| RED 4844 | Reading Practicum | 1 |
| EDF 4930 | EPI Capstone Seminar | 3 |
| EDF 4949 * | EPI Internship | 4 |

*Explanation of School-based hours (SBH): Some EPI courses contain assignments which require students to spend time in a public school classroom. This classroom time is identified in the above curriculum as SBH (school based hours). Students also complete a ten week Internship course which requires them to spend five full days in an assigned classroom for the duration of this ten week internship. The College of Education coordinates the placements for all student field experiences.

Total: 33

**Program Learning Outcomes**

1. Teacher candidates will design curriculum that includes appropriate knowledge of core content and pedagogy.
2. Teacher candidates will design a variety of assessments to measure student learning and improve student success.
3. Teacher candidates will establish a collaborative and student-centered classroom.
4. Teacher candidates will utilize knowledge and skills gained from professional development opportunities in their classrooms.

## Electronics Aide (ELECT-CT)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Present (CIP#0615030313)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This program offers a sequence of courses in electronics that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in manufacturing and electronics. This college credit certificate is designed to help students enter the workforce with definable skills and knowledge in DC and AC circuits, digital circuits, and solid state devices. The certificate can be done as a stand-alone program or in tandem with the Engineering Technology AS degree in Electronics.

**Estimated total program cost: $2,109.29**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 12
**Complete 12 credits**

| | | |
|---|---|---|
| EET 2140C | Solid State Electronics with Lab | 4 |
| CET 1114C [1] | Digital Fundamentals with Lab | 4 |
| EET 2155C | Linear Integrated Circuits with Lab | 4 |

[1]This course has a prerequisite of EET 1084C - Introduction to Electronics.

Total: 12

**Program Learning Outcomes**

1. Demonstrate proficiency in basic direct current (DC) circuits.
2. Demonstrate proficiency in alternating current (AC) circuits.
3. Demonstrate proficiency in solid state devices.
4. Demonstrate proficiency in digital circuits.

## Elementary Education (K-6) with Infused ESOL & Reading Endorsements (ELEDR-BS)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Fall 2025 (655) (CIP#1013120201)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This teacher preparation program combines college coursework related to the elementary content, the pedagogy of teaching and practical, school-based experiences to prepare you for professional certification to teach in an elementary classroom grade K-6. Graduates earn a Bachelor of Science in Elementary Education (K-6) and will be endorsed in both Reading an ESOL. Courses with an * include school-based hours.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSION REQUIREMENTS** **Credits** 60
**AA Degree (60 credits)**

In addition to the State Mandated prerequisite course listed below, students are required to complete the general education (Associates of Arts Degree) that corresponds with their catalog year/requirement term. Students who have earned a previous AA or bachelor's degree should consult an advisor for transcript review.

**STATE MANDATED PREREQUISITES** **Credits** 0
**EDUCATION PREREQUISITES**

| | | |
|---|---|---|
| EDF 1005 * | Introduction to Education | 3 |

**MAJOR CORE COURSES** **Credits** 20-25
**Core Requirements (Complete 23 credits)**

| | | |
|---|---|---|
| EDE 4940 * | Internship: Elementary Education | 9-12 |
| EDF 4430 | Measurement, Evaluation and Assessment in Education K-12 | 3 |
| EDF 3150 ** | Learning Theory and Student Development | 1 |
| EDG 3410 | Classroom Management and Communication K-12 | 3 |
| EEX 3012 * | Nature and Needs of Exceptional Students K-12 | 3 |
| RED 4940 * | Final Reading Internship | 1-3 |

*School-based hours in major total 220 clinical clock hours plus a 15-week internship in Elementary Education and Reading.
**Course under development, pending C&I approval

**MAJOR CORE COURSES** **Credits** 31
**Major Requirements (Complete 31 credits)**

| | | |
|---|---|---|
| EDE 4226 | Integrated English Language Arts, Social Studies and Creative Arts for the Elementary Classroom | 4 |
| EDE 4304 | Integrated Mathematics and Science | 4 |
| EDE 4942 * | Integrated English Language Arts, Social Studies and Creative Arts for the Elementary Classroom Practicum | 1 |
| EDE 4943 * | Integrated Mathematics and Science Practicum | 1 |
| EDG 3620 | Curriculum and Instruction for Students in General and Exceptional Student Education | 3 |
| RED 3309 * | Early and Emergent Literacy K-2 | 3 |
| RED 4511 * | Intermediate Literacy 3-6: Reading, Writing and Thinking | 3 |
| RED 4519 * | Diagnosis and Intervention in Reading for Students in K-12 | 3 |
| MAE 4114 * | Mathematics Content for the Elementary Grades | 3 |
| SCE 4113 | Science Concepts in the Elementary Classroom | 3 |
| SSE 4112 | Social Studies Content in the Elementary Classroom | 3 |

**MAJOR CORE COURSES** **Credits** 6

**ESOL Requirements ( Complete 6 Credits)**

| | | |
|---|---|---|
| TSL 3080 * | ESOL Issues: Principles and Practices I K - 12 | 3 |
| TSL 4081 * | ESOL Issues: Principles & Practices II K-12 | 3 |
| TSL 4939 | ESOL Capstone | 0 |

Total: 117-122

**Program Learning Outcomes**

1. Teacher Candidates will apply content, skills, and theories of child development and learning theories.
2. Teacher Candidates will utilize effective instructional practices across multiple subjects.
3. Teacher Candidates will create a positive, collaborative and inclusive classroom environment to include relevant stakeholders.
4. Teacher Candidates will assess student learning and use data to inform instruction.
5. Teacher Candidates will demonstrate professional and ethical dispositions as defined by the Florida Educator Code of Ethics.

## Emergency Administration and Management (EAM-CT)

**Program Summary**

**Effective Catalog Term: Fall 2023 (625) through Present (CIP#0743030201)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** Emergency Administration and Management (EAM) is a comprehensive certificate focused on policy, planning, and administration of emergency response teams. This certificate integrates the practical, technical, and communication aspects of emergency management. Program participants will gain an understanding of problems facing response teams, learn to write emergency plans according to state and federal guidelines, and build communications skills as crisis advisors. These courses apply towards the Emergency Administration and Management Associate in Science degree.

**Estimated total program cost: $3,270.16**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 24

| | | |
|---|---|---|
| DSC 1002 | Domestic & International Terrorism | 3 |

| | | |
|---|---|---|
| DSC 1004 | Introduction to the NRF and NIMS | 3 |
| DSC 1552 | Critical Infrastructure Protection | 3 |
| FFP 1830 | Introduction to Hazards | 3 |
| FFP 2800 | Emergency Management Public Education Programs | 3 |
| FFP 2801 | Fundamentals of Emergency Management | 3 |
| FFP 2840 | Disaster Recovery Operations | 3 |
| FFP 2841 | Contingency Planning for Business and Industry | 3 |

Total: 24

**Program Learning Outcomes**

1. Demonstrate knowledge of emergency operations planning systems.
2. Demonstrate knowledge of emergency management operations.
3. Demonstrate knowledge of the administration role of the emergency manager.
4. Demonstrate knowledge of federal, state and local mitigation programs.
5. Demonstrate knowledge of long and short term recovery programs.
6. Demonstrate knowledge of the facilities and equipment used in comprehensive emergency management.
7. Demonstrate knowledge of professional development for advancement within the profession.

## Emergency Management (EAM-ATC)

**Program Summary**

**Effective Catalog Term: Spring 2021 (585) through Present (CIP#743030267)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**Please contact PublicSafetyAdvising@spcollege.edu for questions regarding this program. This program is offered as a Fully Online program.** This Advanced Technical Certificate provides professionals in the EMS, Fire, Law Enforcement, Public Health and other related occupations an advanced level of training in emergency management and disaster preparedness. Recent natural disasters and state emergencies have highlighted the need communities have to serve vulnerable populations during these crises. This need exists across a wide range of occupations that respond to such disaster situations. Emergency management directors prepare plans and procedures for responding to natural disasters and other emergencies. They also help lead the response during and after emergencies, often in coordination with public safety officials, elected officials, nonprofit organizations, and government agencies. This program is intended for students who have already attained an A.S. degree in the area of public safety or emergency management. Some courses in this ATC may apply towards the Public Safety Administration BAS degree.

**Estimated total program cost: $2,668.08**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 17
**Complete 17 credits**

| | | |
|---|---|---|
| HSA 2001 | Interprofessional Team Based Health Care | 2 |
| FES 3823 | Planning Methodology for Hazard Mitigation | 3 |
| FES 3833 | Emerging Issues in Environmental Disaster Management | 3 |
| FES 4014 | Evolution of Emergency Management | 3 |
| PAD 4393 | Critical Incident Management | 3 |
| HSC 4640 | Legal & Ethical Aspects of Health Care | 3 |

Total: 17

**Program Learning Outcomes**

1. Demonstrate leadership and decision-making skills in coordinating emergency management operations across public safety, governmental, and community agencies.
2. Apply principles of emergency planning and risk assessment to develop, implement, and evaluate all-hazards preparedness and response strategies.
3. Interpret and implement legal, ethical, and policy frameworks that govern emergency management and homeland security at local, state, and federal levels.
4. Communicate effectively and collaboratively with diverse stakeholders during crisis situations through written plans, oral briefings, and interagency coordination.

## Emergency Medical Services (EMS-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351090402)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**For EMS program information please contact HEC_advising@spcollege.edu**

The AS degree is available to certified paramedics with transferable credit. The paramedic is an allied health professional whose primary focus is to provide advanced emergency medical care for critical and emergent patients who access the emergency medical system. This individual possesses the complex knowledge and skills necessary to provide patient care and transportation. Paramedics function as part of a comprehensive EMS response, under medical oversight. Paramedics perform interventions with the basic and advanced equipment typically found on an ambulance. The paramedic is a link from the scene into the health care system.

**Estimated total program cost: $14,379.79**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 15
**AS General Education**

| | |
|---|---|
| *AS GENERAL EDUCATION REQUIREMENTS - Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | |
| *AS GENERAL EDUCATION REQUIREMENTS - Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. Completing HUM 1020 will also satisfy the Enhanced World View Requirement | |
| *AS GENERAL EDUCATION REQUIREMENTS - Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | |
| *AS GENERAL EDUCATION REQUIREMENTS - Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | |
| *AS GENERAL EDUCATION REQUIREMENTS - Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | |
| *AS GENERAL EDUCATION REQUIREMENTS - Enhanced World View* | |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | |
| *AS GENERAL EDUCATION REQUIREMENTS - Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | |

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES**
**Computer and Information Literacy Requirement (Complete 1 course)**

Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. Completion of this requirement satisfies the General Education Computer Competency requirement for this AS degree.

| | | |
|---|---|---|
| CGS 1070 | Basic Computer and Information Literacy | 1 |
| CGS 1100 | Computer Applications | 3 |
| CGS 1309 | Computer and Information Technology Concepts | 3 |
| EME 2040 | Introduction to Educational Technology | 3 |
| MUM 1001 | Apple Macintosh Foundations | 1 |

**SUPPORT COURSES** **Credits** 4
**Complete 4 credits**

Completion of this requirement satisfies the General Education Natural Science core requirement for this AS degree.

| | | |
|---|---|---|
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |

**MAJOR CORE COURSES** **Credits** 12
**1st Term in Program (Complete 12 credits)**

| | | |
|---|---|---|
| EMS 1119 | Fundamentals of Emergency Medical Care | 6 |
| EMS 1119L | Fundamentals of Emergency Medical Care Lab | 2 |
| EMS 1411 | Fundamentals of Emergency Medical Care Clinical Experience | 2 |
| EMS 1421 | EMT Field Internship | 2 |

**MAJOR CORE COURSES** **Credits** 17
**2rd Term in Program (Complete 17 credits)**

| | | |
|---|---|---|
| EMS 2601 | Paramedic Theory I | 10 |
| EMS 2601L | Paramedic Laboratory I | 4 |
| EMS 2664 | Paramedic Clinical I | 3 |

**MAJOR CORE COURSES** **Credits** 18
**3rd Term in Program (Complete 18 credits)**

| | | |
|---|---|---|
| EMS 2602 | Paramedic Theory II | 10 |
| EMS 2602L | Paramedic Laboratory II | 4 |
| EMS 2665 | Paramedic Clinical II | 4 |

**MAJOR CORE COURSES** **Credits** 7
**4th Term in Program (Complete 7 credits)**

| | | |
|---|---|---|
| EMS 2659C | Paramedic Field Internship | 7 |

Total: 73

**Program Learning Outcomes**

1. The EMS student will summarize his/her roles and responsibilities within an EMS system, and how these roles and responsibilities differ from other levels of providers and interpret the importance of personal ethics and legal responsibilities.
2. The EMS student will establish and/or maintain a patient airway, oxygenate, and ventilate a patient.

3. The EMS student will use the appropriate techniques to obtain a medical history from a patient, explain the significance of physical exam findings, integrate the principles of history taking and techniques of physical exam to perform a patient assessment, apply the process of clinical decision making to use the assessment findings to help form a field impression, and follow an accepted format for dissemination of information in verbal form, either in person or over the radio.
4. The EMS student will interpret standards and guidelines that help ensure safe and effective ground and air medical transport, integrate the principles of general incident management and multiple casualty incident (MCI) management techniques to function effectively at major incidents, integrate the principles of rescue awareness and operations to safely rescue a patient from water, hazardous atmospheres, trenches, highways, and hazardous terrain, evaluate hazardous materials emergencies, call for appropriate resources, and work in the cold zone, have an awareness of the human hazard of crime and violence and the safe operation at crime scenes and other emergencies.
5. The EMS student will evaluate the principles of kinematics to enhance the patient assessment and predict the likelihood of injuries based on the patient's mechanism of injury, pathophysiological principles, and assessment findings to formulate a field impression.
6. The EMS student will evaluate pathophysiologic principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with the respiratory problems, cardiovascular disease, neurological problems, endocrine problems, allergic and anaphylactic reactions, gastroenterological problems, renal/urological problems, toxic exposures, problems involving the hematopoietic system, problems involving environmentally induced or exacerbated medical or trauma condition, infectious or communicable diseases, behavioral or psychiatric disorders, gynecological disorders, and normal or abnormal labors.

## Emergency Medical Technician (EMT-ATD)

**Summary**

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 12

| | | |
|---|---|---|
| EMS 1119 | Fundamentals of Emergency Medical Care | 6 |
| EMS 1119L | Fundamentals of Emergency Medical Care Lab | 2 |
| EMS 1411 | Fundamentals of Emergency Medical Care Clinical Experience | 2 |
| EMS 1421 | EMT Field Internship | 2 |

Total: 12

## Engineering Technology Support (ENGTECH-CT)

**Program Summary**

**Effective Catalog Term: Fall 2007 (385) through Present (CIP#0615000007)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The purpose of this certificate is to prepare students for initial employment with an occupational title as Engineering Support Specialist or Engineering Specialist in various specialized areas to support engineering design, manufacturing processes and production, testing, and/or maintaining product quality, or to provide supplemental training for persons previously or currently employed in these occupational areas. This 18 credit hour certificate has been defined to align with the Manufacturing Skills Standards Council's (MSSC) skills standards. MSSC skill standards define the knowledge, skills, and performance needed by today's frontline manufacturing workers. After completing this core and the General Education requirements in the A.S. degree, it is anticipated that students will be prepared to pass the MSSC Production Technician Certification. These courses are also part of the 60-credit hour Associate in Science Degree in Engineering Technology.

**Estimated total program cost: $3,068.74**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18
**MAJOR CORE COURSES**

| | | |
|---|---|---|
| EET 1084C | Introduction to Electronics | 3 |
| ETD 1320C | Introduction to CAD | 3 |
| ETI 1110 | Introduction to Quality Assurance | 3 |
| ETI 1420 | Manufacturing Processes and Materials I | 3 |
| ETI 1701 | Industrial Safety | 3 |
| ETM 1010C | Mechanical Measurement | 3 |

Total: 18

**Program Learning Outcomes**

1. Demonstrate an understanding of industrial processes and material properties.
2. Generate and interpret computer-aided drawings.
3. Demonstrate a fundamental understanding of electricity and electronics.
4. Demonstrate an understanding of industrial safety, health, and environmental requirements.
5. Demonstrate proficiently in the use of quality assurance methods and quality control concepts.
6. Demonstrate proficiency in using tools, instruments and testing devices.
7. Demonstrate basic troubleshooting skills.
8. Demonstrate appropriate communication skills.
9. Demonstrate appropriate math skills.
10. Demonstrate an understanding of modern business practices and strategies.
11. Demonstrate employability skills.

## Environmental Science Technology (ENVSC-AS)

**Program Summary**

**Effective Catalog Term: Summer 2024 (635) through Spring 2029 (705) (CIP#1703010401)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

*****THIS PROGRAM IS NO LONGER ACCEPTING STUDENTS. LAST ADMISSION TERM IS SUMMER 2024 (0635)*****

As the world around us grows more complex, so too does our need to take care of it. Gain the scientific background of how we impact the environment and how society tries to keep it in check through environmental regulation and compliance. This A.S. degree in Environmental Science Technology gives you: - A choice of two

specializations: water resource management or environmental resources conservation - Enhanced earning potential - Knowledge of green practices - The ability to help your organization meet environmental standards - Knowledge of how to manage air and water pollution remediation - Awareness of environmental regulations and compliance - The ability to operate and calibrate lab and field instruments for quantitative and qualitative analysis of pollutants This 64-credit-hour A.S. degree transfers to SPC's Bachelor of Applied Science in Sustainability Management.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Communications - Speech* | 3 |
| Complete 3 credits from the approved General Education Speech coursework . Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |

| | | |
|---|---|---|
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**MAJOR CORE COURSES** **Credits** 23
**Complete 23 credits**

| | | |
|---|---|---|
| BSC 2250C | Field Biology of Florida with Lab | 3 |
| CHM 1025 | Introductory Chemistry | 3 |
| CHM 1025L | Introductory Chemistry Lab | 1 |
| ENC 2210 | Technical Writing | 3 |
| ESC 1000C | Earth Science | 3 |
| EVR 1001C | Introduction to Environmental Science | 3 |
| EVR 2892C | Environmental Sampling and Analysis I | 3 |
| GIS 2040 | Introduction to Geographic Information Systems | 3 |
| | | 1 |
| EVR 2910 | Undergraduate Research in Environmental Science | 1 |
| OR | | |
| EVR 2930 | Special Topics in Environmental Science | 1 |

**MAJOR ELECTIVE COURSES** **Credits** 3
**Biology (Select 3 credits)**

| | | |
|---|---|---|
| OCE 2001 | Introduction to Oceanography | 3 |
| OCB 1000C | Biology of Marine Life | 3 |

**SUBPLAN** **Credits** 20
**Select one subplan from below (Complete 20 credits)**
**SUBPLAN CORE COURSES** **Credits** 0
**Subplan: Water Resource Management (WRM) (Complete 17 credits)**

| | | |
|---|---|---|
| EVR 1016 | Hazardous Waste/ Materials Management | 3 |
| EVR 1263 | Urban Pollution | 3 |
| EVR 1328 | Natural Resources Conservation and Management | 3 |
| EVR 1357 | Wetland Resources | 3 |
| EVR 1858 | Environmental Regulation and Compliance | 3 |
| EVR 2949 | Co-op Work Experience | 2 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0
**Subplan: Water Resource Management (WRM) (Complete 3 credits)**

| | | |
|---|---|---|
| ECO 2013 | Principles of Macroeconomics | 3 |

| | | |
|---|---|---|
| GEB 1011 | Introduction to Business | 3 |
| MAN 2021 | Principles of Management | 3 |

**SUBPLAN CORE COURSES** **Credits** 0

**Subplan: Environmental Resources Conservation (ENVRCON) (Complete 20 credits)**

| | | |
|---|---|---|
| ECO 2013 | Principles of Macroeconomics | 3 |
| ECO 2023 | Principles of Microeconomics | 3 |
| EVR 1310 | Renewable Energy Resources, Energy Efficiency and Conservation Methods | 3 |
| EVR 1328 | Natural Resources Conservation and Management | 3 |
| EVR 1858 | Environmental Regulation and Compliance | 3 |
| EVR 2949 | Co-op Work Experience | 2 |
| | | 3 |
| EVR 1016 | Hazardous Waste/ Materials Management | 3 |
| OR | | |
| EVR 1263 | Urban Pollution | 3 |

Total: 64

**Program Learning Outcomes**

1. Scientifically interpret and apply the concepts, principles and theories that constitute aspects of environmental science.
2. Evaluate environmental risks and develop plans to address their effects using current methodology and technology.
3. Evaluate the role of environmental policies, laws and management practices on the changes in a local ecosystem over a defined period of time.
4. Systematically apply field testing and field measurement collection practices in an ecosystem.

## Event Planning Management (EVENT-CT)

**Program Summary**

**Effective Catalog Term: Fall 2020 (580) through Present (CIP#0252090905)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate is designed to prepare students for employment as supervisors in the event planning sector of the hospitality industry.

**Estimated total program cost: $4,000.49**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 24

| | | |
|---|---|---|
| HFT 1000 | Introduction to the Hospitality and Tourism Industry | 3 |
| HFT 1941 | Operations and Service Practicum | 2 |
| HFT 2450 | Hospitality Cost Controls | 3 |
| HFT 2750 | The Event Industry | 3 |
| HFT 2600 | Hospitality Law | 3 |
| HFT 2265 | Food Service Operations | 3 |
| MAR 2011 | Principles of Marketing | 3 |
| MNA 1751 | Customer Service I: Developing A Spirit of Customer Service | 1 |
| MAN 2340 | Supervisory Management | 3 |

Total: 24

**Program Learning Outcomes**

1. Analyze information for decision making.
2. Identify ethical and legal responsibilities specific to the field.
3. Analyze service excellence principles and culture.
4. Perform hospitality industry-specific workplace skills: A. Cost controls - students will identify areas of cost control in food production B. Food production - students will demonstrate proficiency in quantity food production C. Housekeeping - students will demonstrate proficiency in procedures for control systems D. Front Office - students will demonstrate front-office procedures for auditing E. Event Management - discuss the importance and process of setting goals and objectives when planning MEEC gatherings.

## Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (ESEDR-BS)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Summer 2026 (665) (CIP#1101310011)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This teacher preparation program combines college coursework related to the content of Exceptional Student Education, the pedagogy of teaching and practical, school-based experiences to prepare you for professional certification to teach in an Exceptional Student Education classroom, grades K-12. Graduates earn a Bachelor of Science in Exceptional Student Education (grades K-12) and will be endorsed in both Reading and ESOL.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSION REQUIREMENTS** **Credits** 60
**AA Degree (60 credits)**

In addition to the State Mandated Prerequisite course listed below, students are required to complete the general education (Associates of Arts Degree) that corresponds with their catalog year/requirement term. Students who have earned a previous AA or bachelor's degree should consult an advisor for transcript review.

**STATE MANDATED PREREQUISITES** **Credits** 0
**Grade of "C" or better required**

| | | |
|---|---|---|
| EDF 1005 | Introduction to Education | 3 |

**MAJOR CORE COURSES** **Credits** 25
**Core Requirements (Complete 25 credits)**

| | | |
|---|---|---|
| EDF 3214 | Student Development and Learning Principles K-12 | 2-3 |
| EDF 4430 | Measurement, Evaluation and Assessment in Education K-12 | 3 |
| EDG 3410 | Classroom Management and Communication K-12 | 3 |
| EEX 3012 * | Nature and Needs of Exceptional Students K-12 | 3 |
| EEX 4940 * | Internship: Exceptional Student Education | 9-12 |
| RED 4940 * | Final Reading Internship | 1-3 |

*School-based hours total 233 clinical hours plus a 15-week internship in Exceptional Student Education and Reading.

**MAJOR CORE COURSES** **Credits** 34
**Major Requirements (Complete 34 credits)**

| | | |
|---|---|---|
| EDE 4226 | Integrated English Language Arts, Social Studies and Creative Arts for the Elementary Classroom | 4 |
| EDE 4304 | Integrated Mathematics and Science | 4 |
| EDE 4942 * | Integrated English Language Arts, Social Studies and Creative Arts for the Elementary Classroom Practicum | 1 |
| EDE 4943 * | Integrated Mathematics and Science Practicum | 1 |
| EEX 3241 | Curriculum and Instruction for Exceptional Students | 3 |
| EEX 4221 | Educational Assessment of Exceptional Students | 3 |
| EEX 4261 * | Strategy Instruction and Transitions for Exceptional Students | 3 |
| EEX 4604 | Effective Classroom Management for Students in General and Exceptional Education | 3 |
| RED 3309 * | Early and Emergent Literacy K-2 | 3 |
| RED 4511 * | Intermediate Literacy 3-6: Reading, Writing and Thinking | 3 |
| RED 4519 * | Diagnosis and Intervention in Reading for Students in K-12 | 3 |
| MAE 4114 * | Mathematics Content for the Elementary Grades | 3 |

**MAJOR CORE COURSES** **Credits** 6
**ESOL Requirements (Complete 6 credits)**

| | | |
|---|---|---|
| TSL 3080 * | ESOL Issues: Principles and Practices I K - 12 | 3 |
| TSL 4081 * | ESOL Issues: Principles & Practices II K-12 | 3 |

| | | |
|---|---|---|
| TSL 4939 | ESOL Capstone | 0 |

Total: 125

**Program Learning Outcomes**

1. Teacher Candidates demonstrate an understanding of the characteristics and needs of students with exceptionalities.
2. Teacher Candidates will apply knowledge of laws and legislation governing the provision of services to students with exceptionalities.
3. Teacher Candidates apply evidence-based instructional practices for students with exceptionalities.
4. Teacher Candidates utilize assistive technologies and adaptive resources to support students with exceptionalities.
5. Teacher Candidates collaborate with families, professionals, and relevant stakeholders to support and advocate for students with exceptionalities.
6. Teacher Candidates will demonstrate professional and ethical dispositions as defined by the Florida Educator Code of Ethics.

## Field Survey Technician (FSTECH-CT)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Present (CIP#0715020102)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The purpose of this Field Survey Technician Certificate program is to prepare students for employment as surveyors, civil engineering technicians, or surveyor helpers or to provide supplemental training for persons previously or currently employed in these occupations. This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Architecture and Construction career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Architecture and Construction career cluster. The content includes but is not limited to surveying, highway design, soils and foundations, photogrammetry, asphalt design, drainage and geology, concrete design, orientation to utilities, structural design, estimating, drafting, legal and ethical considerations, employability skills, leadership, and human relations skills, health and safety, and support general education. Computer use is essential. Technical report writing, record keeping, and mathematical computations are important aspects of this occupation.

**Estimated total program cost: $2,880.08**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 18 |
|---|---|---|
| 3 credits from approved General Education Mathematics coursework (any MAC, MAP, MAS, MGF, MTG, or STA prefix) | | 3 |
| BCN 2054C | Construction Surveying Methods | 3 |
| ETC 2521C | Hydraulics and Hydrology | 3 |
| GIS 2040 | Introduction to Geographic Information Systems | 3 |
| ---------- | | |
| | | 3 |
| ETD 1320C | Introduction to CAD | 3 |
| OR | | |
| ETD 1390C | Introduction to Architectural Revit | 3 |
| OR | | |
| ETD 2364C | Introduction to SolidWorks | 3 |
| ---------- | | |
| BCN 2949 | Co-op Work Experience | 3 |

Total: 18

**Program Learning Outcomes**

1. Accurately demonstrate the proper care and use of surveying instruments.
2. Provide accurate drawings of field surveys.
3. Recognize proper safety conditions and use appropriate safety equipment.

Financial Tecnology Specialist (FINTECH-CT)

Summary

Program Requirements

| **MAJOR CORE COURSES**<br>**Complete 24 credits** | | **Credits** 24 |
|---|---|---|
| BRC 2001 | Principles of Financial Services-Banking | 3 |
| BRC 2062 | Introduction to Financial Markets and Money | 3 |
| CGS 1309 | Computer and Information Technology Concepts | 3 |
| CGS 2811 | Incident Response & Disaster Recovery | 3 |
| CTS 1120 | Network Security Foundations | 3 |
| FIN 2000 | Principles of Finance | 3 |
| GEB 1432 | Applied Artificial Intelligence (AI) in Business | 3 |
| STA 2023 | Elementary Statistics | 3 |

Total: 24

## Fire Officer Supervisor (FOSU-CT)

**Program Summary**

**Effective Catalog Term: Fall 2023 (625) through Present (CIP#0743020111)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate is designed to incorporate the theory and applications necessary to become a credentialed Fire Officer. Students who complete SPC's Certificate program in Fire Officer Supervisor will have completed courses in preparation for the Certificate of Competency test for Fire Officer I through the Florida State Fire College. Additional requirements outside of this certificate are required for Fire Officer I certification and details are available on the Florida Fire Board of Standards Training website (url:http://www.myfloridacfo.com/Division/SFM/BFST/default.htm#.VTexC5OMBdM). These courses also apply towards the Public Safety Associate in Science (EAM-AS) degree, Fire Science Subplan.

**Estimated total program cost: $1,892.59**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 12 |
|---|---|---|
| FFP 2120 | Building Construction for the Fire Service | 3 |
| FFP 2720 | Company Officer | 3 |
| FFP 2740 | Fire Service Course Delivery | 3 |
| FFP 2810 | Firefighting Tactics and Strategy I | 3 |
| | | Total: 12 |

**Program Learning Outcomes**

1. Explore the theories and fundamentals of how and why fires start, spread, and how they are controlled.
2. Explain the concepts of building construction components and techniques related to fire and life safety.
3. Describe the history and philosophy of fire prevention, including code enforcement, public information, organization and operation of a fire prevention bureau, utilization of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.
4. Compare fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection/service; fire loss analysis; organization, management, and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; and specific fire protection functions.
5. Examine the organization and management of a fire department and the relationship of government agencies to the fire service.
6. Compare risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and emergency situations involving fire, EMS, hazardous materials, and technical rescue.
7. Discuss the federal, state, and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of court cases.
8. Analyze the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground.

9. Identify the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire setter, and types of fire causes.
10. Describe and discuss methods of instruction involved in planning and conducting an effective training program for adult learners.

## Fire Science Technology (FIRE-AS)

**Program Summary**

**Effective Catalog Term: Summer 2023 (620) through Spring 2028 (690) (CIP#1743020112)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

*****THIS PROGRAM IS NO LONGER ACCEPTING STUDENTS. LAST ADMISSION TERM IS SUMMER 2023 (0620)*** → Students who wish to pursue Fire Science Technology may enroll in the Homeland Security and Emergency Management A.S. (EAM-AS) program with a declared subplan of Fire Science (FIRESCI).**

**This program is offered as a Fully Online program.** The goal of this program is to prepare students with a scientific understanding of fire hazards and their control with emphasis on effective operating procedures at fires and other emergencies. General education courses are included to prepare the graduate to communicate and work effectively with all levels of society. Completion of the following courses will qualify students to earn the Fire Officer Supervisor Certificate (FOSU-CT): FFP 2120, FFP 2720, FFP 2740, FFP 2810. The general college admission policy applies to all students entering the Fire Science Technology program.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Humanities and Fine Arts-Core* | 3 |

| | | |
|---|---|---|
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | | 3 |
| *Mathematics-Core* | | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | | 3 |
| *Ethics* | | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | | 3 |
| *Natural Sciences - Core* | | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | | 3 |
| *Computer/Information Literacy Competency* | | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | | 0 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 3

**Technical Writing (Select 3 credits)**

| | | |
|---|---|---|
| ENC 2210 | Technical Writing | 3 |
| ENC 1102 | Composition II | 3 |

**MAJOR CORE COURSES** **Credits** 24

**Complete 24 credits**

| | | |
|---|---|---|
| FFP 1109 | Fire Department Occupational Safety and Health | 3 |
| FFP 1111 | Fire Chemistry | 3 |
| FFP 1505 | Fire Prevention | 3 |
| FFP 1540 | Private Fire Protection Systems I | 3 |
| FFP 2120 * | Building Construction for the Fire Service | 3 |
| FFP 2720 * | Company Officer | 3 |
| FFP 2740 * | Fire Service Course Delivery | 3 |
| FFP 2810 * | Firefighting Tactics and Strategy I | 3 |

*Course applies towards completion of Fire Officer Supervisor Certificate (FOSU-CT).

**MAJOR ELECTIVE COURSES** **Credits** 15

**Select 15 credits from below or complete any course with DSC or FFP prefix.**

| | | |
|---|---|---|
| FFP 2510 | Fire Codes and Standards | 3 |
| FFP 2521 | Blueprint Reading and Plans Review | 3 |
| FFP 2541 | Private Fire Protection Systems II | 3 |
| FFP 2610 | Fire Cause and Origin Determination | 3 |
| FFP 2706 | Fire Service Public Information Officer | 3 |
| FFP 2741 | Fire Service Course Design | 3 |
| FFP 2811 | Firefighting Tactics and Strategy II | 3 |
| FFP 1103 | Florida Incident Safety Officer | 3 |
| FFP 1104 | Legal Issues for Safety Officers | 3 |

Total: 60

**Program Learning Outcomes**

1. Apply concepts of fire prevention practices, fire protection systems, and building construction related to fire behavior and fire safety.
2. Describe assessment methods related to leadership, fire department administration, fire fighter occupational safety and health, and fire service course development and delivery techniques.
3. Analyze issues involving incident command, hazardous materials, and terrorism then apply strategies to incident mitigation.

## Food and Beverage Management (FBM-CT)

**Program Summary**

**Effective Catalog Term: Fall 2017 (535) through Present (CIP#0252090503)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate is designed to prepare students for employment as supervisors and managers in the food and beverage sectors of the hospitality industry.

**Estimated total program cost: $5,074.19**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 30

| | | |
|---|---|---|
| FSS 2235C | Introductory Food Production Management | 3 |
| HFT 1000 | Introduction to the Hospitality and Tourism Industry | 3 |
| HFT 1941 | Operations and Service Practicum | 2 |
| HFT 2265 | Food Service Operations | 3 |
| HFT 2450 | Hospitality Cost Controls | 3 |
| HFT 2600 | Hospitality Law | 3 |
| HFT 2750 * | The Event Industry | 3 |
| HFT 2942 | Hospitality Internship | 3 |
| MAN 2340 | Supervisory Management | 3 |
| MAR 2011 | Principles of Marketing | 3 |
| MNA 1751 | Customer Service I: Developing A Spirit of Customer Service | 1 |

*Previously listed as HFT XXXX. Updated 11.1.2017

Total: 30

1. Analyze information for decision making.
2. Identify ethical and legal responsibilities specific to the field.
3. Analyze service excellence principles and culture.
4. Perform hospitality industry-specific workplace skills: A. Cost controls - students will identify areas of cost control in food production B. Food production - students will demonstrate proficiency in quantity food production C. Housekeeping - students will demonstrate proficiency in procedures for control systems D. Front Office - students will demonstrate front-office procedures for auditing E. Event Management - discuss the importance and process of setting goals and objectives when planning MEEC gatherings.

## Food and Beverage Management Specialist (FBS-CT)

**Program Summary**

**Effective Catalog Term: Fall 2017 (535) through Present (CIP#0252090507)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate is designed to prepare students for employment as specialists in the food and beverage sectors of the hospitality industry.

**Estimated total program cost: $2,186.58**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 12

| | | |
|---|---|---|
| FSS 2235C | Introductory Food Production Management | 3 |
| HFT 1000 | Introduction to the Hospitality and Tourism Industry | 3 |
| HFT 1941 | Operations and Service Practicum | 2 |
| MNA 1751 | Customer Service I: Developing A Spirit of Customer Service | 1 |
| MAN 2340 | Supervisory Management | 3 |

Total: 12

**Program Learning Outcomes**

1. Analyze information for decision making.
2. Identify ethical and legal responsibilities specific to the field.
3. Analyze service excellence principles and culture.
4. Perform hospitality industry-specific workplace skills: A. Cost controls - students will identify areas of cost control in food production B. Food production - students will demonstrate proficiency in quantity food production C. Housekeeping - students will demonstrate proficiency in procedures for control systems D. Front Office - students will demonstrate front-office procedures for auditing E. Event Management - discuss the importance and process of setting goals and objectives when planning MEEC gatherings.

## Funeral Arts (FUNAT-ATC)

**Summary**

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 28
**GRADE OF "C" OR BETTER IN ALL COURSES**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| BUL 2241 | Business Law I | 3 |
| FSE 1000 | Introduction to Funeral Services | 3 |
| FSE 1010 | Funeral Ethics | 1 |
| FSE 1150 | Cremation History, Principles and Practice | 2 |
| FSE 1204 | Funeral Services Computer Applications | 1 |
| FSE 2060 | Funeral Directing | 3 |
| FSE 2061 | Thanatology | 3 |
| FSE 2080 | Funeral Law | 3 |
| FSE 2201 | Funeral Home Management Operations | 3 |
| FSE 2202 | Funeral Home Management | 3 |

Total: 28

## Funeral Services (FUNSE-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1312030100)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

Transferable to a Bachelor's degree in Health Services Administration at SPC.

The Funeral Services associate degree program at St. Petersburg College is accredited by the American Board of Funeral Service Education (ABFSE), 992 Mantua Pike, Suite 108, Woodbury Heights, NJ 08097 (816) 233-3747.

Web: www.abfse.org. National Board Examination pass rates, graduation/retention rates, and job/placement/ employment rates for this and other ABFSE-accredited programs are available at www.abfse.org in the Directory of Accredited Programs.

**Estimated total program cost: $15,723.04**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Communications - Speech* | 3 |
| Complete 3 credits from the approved General Education Speech coursework . Minimum grade of "C" required. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |

| | | |
|---|---|---|
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | | 0 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**ADMISSIONS COURSES** **Credits** 6
**Students must complete the following Support/Pre-Entry courses before applying to the program. (Complete 6 credits)**

| | | |
|---|---|---|
| FSE 1000 | Introduction to Funeral Services | 3 |
| FSE 2061 | Thanatology | 3 |

**SUPPORT COURSES: Anatomy & Physiology** **Credits** 4
**Anatomy & Physiology (Complete 4 credits)**

| | | |
|---|---|---|
| Completion of this requirement satisfies the General Education Natural Science Core requirement for this AS degree. | | |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |

**SUPPORT COURSES** **Credits** 3
**Financial Accounting (Complete 3 credits)**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |

**SUPPORT COURSES** **Credits** 5
**Other (Complete 5 credits)**

| | | |
|---|---|---|
| BUL 2241 | Business Law I | 3 |
| HSC 1524 | Introduction to Infectious Disease | 2 |

**MAJOR CORE COURSES** **Credits** 9
**1st Term in Program (Complete 9 credits)**

| | | |
|---|---|---|
| FSE 1204 | Funeral Services Computer Applications | 1 |
| FSE 2202 | Funeral Home Management | 3 |
| FSE 2060 | Funeral Directing | 3 |

| | | |
|---|---|---|
| FSE 1150 | Cremation History, Principles and Practice | 2 |

**MAJOR CORE COURSES** **Credits** 12
**2nd Term in Program (Complete 12 credits)**

| | | |
|---|---|---|
| FSE 1105 | Thanatochemistry | 2 |
| FSE 2080 | Funeral Law | 3 |
| FSE 2100 | Embalming I | 3 |
| FSE 2101L | Embalming Clinical I | 1 |
| FSE 2201 | Funeral Home Management Operations | 3 |

**MAJOR CORE COURSES** **Credits** 12
**3rd Term in Program (Complete 12 credits)**

| | | |
|---|---|---|
| FSE 2120 | Restorative Art | 3 |
| FSE 2120L | Restorative Art Lab | 1 |
| FSE 2160 | Funeral Pathology | 3 |
| FSE 2140 | Embalming II | 3 |
| FSE 2141L | Embalming Clinical II | 1 |
| FSE 2930 | Funeral Services Professional Review | 1 |

**MAJOR CORE COURSES** **Credits** 3
**4th Term in Program (Complete 3 credits)**

| | | |
|---|---|---|
| FSE 2946C [2] | Professional Practicum | 3 |

[2]All courses must be completed prior to FSE 2946.

Total: 72

**Program Learning Outcomes**

1. The student will demonstrate the ability to do pre-embalming analysis, prepare an embalming solution, identify injection sites, evaluate embalming procedures, and determine areas adequately preserved for the dead human body. (Critical Thinking)
2. The student will apply the knowledge of the ethical and legal guidelines associated with dealing with variations of funeral customs influenced by religions, cultures and geographical regions. (Ethics and Professionalism)
3. The student will demonstrate the ability to prepare various types of legal documents, correspondence with families, clergy, doctors, and industry suppliers in the funeral home profession. (Communication)
4. The student will be able to analyze statistical information to be able to determine prices of services and merchandise for the funeral home. (Math)

## Green Innovations and Social Entrepreneurship (GRENTR-CT)

**Program Summary**

**Effective Catalog Term: Fall 2025 (655) through Present (CIP#0552070303)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program may be completed Fully Online.** Students will be studying entrepreneurial approaches to developing sustainable businesses that will reduce our impact on the planet and improve quality of life for employees and the community. Students will learn how to create innovative solutions to social and environmental

problems in the workplace and the community. Finally, students will be using new technologies to bring sustainable products and business improvements to market. The goal is for students to develop new, sustainable businesses that are ready for launch.

**Estimated total program cost: $3,086.12**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18
**Complete 18 credits**

| | | |
|---|---|---|
| ENT 1000 | Intro to Entrepreneurship | 3 |
| ENT 2612 | Principles of Creativity and Innovation Leadership | 3 |
| GEB 1432 | Applied Artificial Intelligence (AI) in Business | 3 |
| MAN 1060 | Introduction to Business Sustainability | 3 |
| MAN 2582 | Introduction to Project Management | 3 |
| MAN 2930 | Current Trends in Management | 3 |

Total: 18

**Program Learning Outcomes**

1. Develop a plan (lean business canvas) for starting a business.
2. Develop sustainable operations plans for businesses.
3. Develop rapid prototypes for business innovations.
4. Create innovative solutions using new technologies (renewables, AI, VR/AR, drones, apps).

## Health Care Services (HSA-CT)

**Program Summary**

**Effective Catalog Term: Fall 2021 (595) through Present (CIP#0351070102)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** The courses necessary to earn a certificate in Health Care Services and to be eligible for certification examination in Excel Spreadsheets are a part of the AS Health Sciences degree plan. Students may earn the certificate in Health Care Services and become eligible for certification examination in Excel Spreadsheets without completing the AS degree. All students are required to provide proof of CPR certification valid for 2 years that covers cardiac and breathing emergencies in adults, including the use of AED, & infant/child CPR, from American Heart Association or American Red Cross by completion of HSA-2182 Health Services Management Concepts.

**Estimated total program cost: $4,963.58**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 27
**Health Care Services Certificate**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| BSC 1084C * | Essentials of Human Anatomy & Physiology | 4 |
| CGS 1100 | Computer Applications | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HSA 1100 | Healthcare Delivery Systems | 3 |
| HSA 2001 | Interprofessional Team Based Health Care | 2 |
| HSA 2182 | Health Services Management Concepts | 2 |
| HSC 1531 | Medical Terminology I | 2 |

**BSC 2085/BSC 2085L and BSC 2086/BSC 2086L together can fulfill the BSC 1084C course requirement.

Total: 27

**Program Learning Outcomes**

1. Apply basic knowledge of health care delivery, medical language, anatomy and physiology, disease process and pharmacology within a health care organization.
2. Perform administrative functions required of an entry-level health services manager, including the management of medical supplies, departmental budgets, IT, and reimbursement systems.
3. Demonstrate compliance with legal and governmental requirements related to health services management.
4. Implement appropriate management strategies as an entry-level professional to effectively lead a safe and ethically responsible health care team.

## Health Information Technology (HIT-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351070700)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should

visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

Transferable to a Bachelor's degree in Health Services Administration at SPC.

**Estimated total program cost: $13,530.27**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| | |
|---|---|
| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 15 |
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** | |

satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 3
**Social/Behavioral Science (Select 3 credits)**

Completion of this requirement satisfies the General Education Social/Behavioral Science Core requirement and course requirement for this AS degree.

| | | |
|---|---|---|
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 3
**Computer and Information Literacy Competency (Complete 1 course)**

Completion of this requirement satisfies the General Education Computer Competency requirement for this AS degree.

| | | |
|---|---|---|
| CGS 1100 | Computer Applications | 3 |

**SUPPORT COURSES** **Credits** 6
**Complete 6 credits**

| | | |
|---|---|---|
| BSC 1084C * | Essentials of Human Anatomy & Physiology | 4 |
| HSC 1531 | Medical Terminology I | 2 |

*BSC 2085/BSC 2085L and BSC 2086/BSC 2086L together can fulfill the BSC 1084C course requirement.

**MAJOR CORE COURSES** **Credits** 11
**1st Term in Program (Complete 11 credits)**

| | | |
|---|---|---|
| HIM 1101 | HIM Standards and Practice | 3 |
| HIM 1511 | Healthcare Informatics and Data Workflow | 3 |
| HIM 1140 | Pharmacology and Pathophysiology for HIM Professionals | 3 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |

**MAJOR CORE COURSES** **Credits** 10
**2nd Term in Program (Complete 10 credits)**

| | | |
|---|---|---|
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HIM 1005 | Healthcare Informatics Project Management | 2 |
| HIM 1800 | Professional Practice Experience I | 3 |
| HIM 2229 | Introduction to ICD-CM Coding | 3 |

**MAJOR CORE COURSES** **Credits** 11
**3rd Term in Program (Complete 11 credits)**

| | | |
|---|---|---|
| HIM 2201 | Introduction to Statistics and Data Analysis | 3 |
| HIM 2723 | ICD-PCS Coding | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2253 | Basic CPT Coding | 3 |

**MAJOR CORE COURSES** **Credits** 8
**4th Term in Program (Complete 8 credits)**

| | | |
|---|---|---|
| HIM 2810 | Professional Practice Experience II | 3 |
| HIM 1506 | HIM Compliance | 1 |
| HIM 2500 | Organization and Supervision | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |

**MAJOR CORE COURSES** **Credits** 3
**5th Term in Program (Complete 3 credits)**

| | | |
|---|---|---|
| HIM 2960 | Credentialing Exam Review | 1 |
| HIM 2820 | Professional Practice Experience III | 2 |

Total: 70

**Program Learning Outcomes**

1. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Data Content, Structure, and Information Governance.
2. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Access, Disclosure, Privacy, and Security.
3. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Data Analytics & Use.
4. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of the Revenue Cycle Management.
5. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Compliance.
6. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Leadership.
7. Students will demonstrate knowledge and skills at the recall, application, and analysis levels in all of the content areas of the National RHIT exam.

## Health Sciences: Dental Hygiene Focus (HSA-DENHY-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351070101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** Completion of the following program of study will result in an Associate in Science Degree in Health Sciences. The specialized focus in Dental Hygiene refers only to the general education and support coursework and does not equate to earning a degree in Dental Hygiene. You can view the program of study for the Associate in Science in Dental Hygiene program here. A minimum grade of "C" is required in all courses.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists

- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | | **Credits** 12 |
|---|---|---|
| *Communications - Composition- Core* | | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | | 3 |
| *Humanities and Fine Arts-Core* | | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | | 3 |
| *Mathematics-Core* | | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | | 3 |
| *Social and Behavioral Sciences- Core* | | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | | 3 |
| *Computer/Information Literacy Competency* | | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | | 0 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

| | | |
|---|---|---|
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 21
**Complete 21 credits**

| | | |
|---|---|---|
| PSY 1012 [1] | General Psychology | 3 |
| CGS 1100 [2] | Computer Applications | 3 |
| PHI 1600 [3] | Introduction to Ethics | 3 |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010L | Microbiology Laboratory | 1 |

[1]Completion of this course satisfies the Social/Behavioral Science General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[2]Completion of this course satisfies the Computer Competency General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[3]Completion of this course satisfies the Ethics General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

**MAJOR CORE COURSES** **Credits** 27
**Complete 27 credits**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HSA 1100 | Healthcare Delivery Systems | 3 |
| HSA 1102 | Current Issues in Health | 2 |
| HSA 2001 | Interprofessional Team Based Health Care | 2 |
| HSA 2182 | Health Services Management Concepts | 2 |
| HSC 1149 | General Pharmacology for Health Professionals | 1 |
| HSC 1531 | Medical Terminology I | 2 |
| HSC 2721 | Evidence-Based Healthcare Practice | 1 |

Total: 60

**Program Learning Outcomes**

1. Students will demonstrate knowledge of the administration of healthcare facilities, including accreditation, licensure, reimbursement systems, legal and ethical issues, and documentation.
2. Students will submit documentation demonstrating best practices for interprofessional team-based health care based on ethics and professional obligations.
3. Students will demonstrate compliance with legal and governmental requirements related to health services management.

## Health Sciences: Emergency Medical Services Focus (HSA-EMS-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351070101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** Completion of the following program of study will result in an Associate in Science Degree in Health Sciences. The specialized focus in Emergency Medical Services refers only to the general education and support coursework and does not equate to earning a degree in Emergency Medical Services. You can view the program of study for the Associate in Science in Emergency Medical Services program here. A minimum grade of "C" is required in all courses.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 12 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |

| | | |
|---|---|---|
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 9
**Complete 9 credits**

| | | |
|---|---|---|
| PSY 1012 [2] | General Psychology | 3 |
| CGS 1100 [3] | Computer Applications | 3 |
| PHI 1600 [4] | Introduction to Ethics | 3 |

[2]Completion of this course satisfies the Social/Behavioral Science General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[3]Completion of this course satisfies the Computer Competency General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[4]Completion of this course satisfies the Ethics General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

**SUPPORT COURSES: Anatomy & Physiology/Nutrition & Wellness** **Credits** 8
**Complete 8 credits**

| | | |
|---|---|---|
| BSC 1084C | Essentials of Human Anatomy & Physiology | 4 |
| HUN 1201 | Science of Nutrition | 3 |
| PSC 1191L | Laboratory in the Physical Sciences | 1 |
| ***** OR ***** | | |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |

**SUPPORT COURSES: Lecture & Lab** **Credits** 4
**Complete 4 credits**

| | | |
|---|---|---|
| Natural Science Core with separate lecture and lab OR if a separate lab is not available then one credit of available elective coursework (any prefix) may be used. | | |
| AST 1002 | Introduction to Astronomy | 3 |
| BSC 1005C | Biological Sciences with Lab | 3 |

| | | |
|---|---|---|
| BSC 2010 | Biology I Cellular Processes | 3 |
| BSC 2010L | Biology I Cellular Processes Laboratory | 1 |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| CHM 2045 | General Chemistry I | 3 |
| CHM 2045L | General Chemistry & Qualitative Analysis Laboratory I | 1 |
| ESC 1000C | Earth Science | 3 |
| EVR 1001C | Introduction to Environmental Science | 3 |
| GLY 2010 | Physical Geology | 3 |
| GLY 2010L | Physical Geology Lab | 1 |
| OCE 2001 | Introduction to Oceanography | 3 |
| OCE 2001L | Oceanography Laboratory | 1 |
| PHY 1053 | General Physics I | 3 |
| PHY 1048L | Physics Laboratory I | 1 |
| PHY 2048 | Physics I | 3 |

**MAJOR CORE COURSES** **Credits** 27
**Complete 27 credits**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HSA 1100 | Healthcare Delivery Systems | 3 |
| HSA 1102 | Current Issues in Health | 2 |
| HSA 2001 | Interprofessional Team Based Health Care | 2 |
| HSA 2182 | Health Services Management Concepts | 2 |
| HSC 1149 | General Pharmacology for Health Professionals | 1 |
| HSC 1531 | Medical Terminology I | 2 |
| HSC 2721 | Evidence-Based Healthcare Practice | 1 |

Total: 60

**Program Learning Outcomes**

1. Students will demonstrate knowledge of the administration of healthcare facilities, including accreditation, licensure, reimbursement systems, legal and ethical issues, and documentation.
2. Students will submit documentation demonstrating best practices for interprofessional team-based health care based on ethics and professional obligations.
3. Students will demonstrate compliance with legal and governmental requirements related to health services management.

## Health Sciences: General Health Sciences Focus (HSA-GEN-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351070101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** The following program of study lists the requirements to receive an Associate of Science degree in Health Sciences. Students who graduate from this program are prepared for entry level positions in healthcare services. Students who wish to continue their education after completing

their Associate of Science degree can articulate into the Health Services Administration Bachelor of Science Program at SPC. A minimum grade of "C" is required in all courses.

**Estimated total program cost: $10,140.92**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 15 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Social and Behavioral Sciences* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |

| | | |
|---|---|---|
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

## For Lecture/Lab Support Course requirement, students must complete 12 credits, selecting either option A or option B.

| **SUPPORT COURSES: Lecture & Lab**<br>**Option A Complete 12 credits** | | **Credits** |
|---|---|---|
| BSC 1084C | Essentials of Human Anatomy & Physiology | 4 |
| Natural Science Core with separate lecture and lab OR if a separate lab is not available then one credit of available elective coursework (any prefix) may be used | | 8 |
| AST 1002 | Introduction to Astronomy | 3 |
| AST 1022L [1] | Observational Astronomy Laboratory | 1 |
| BSC 1005C | Biological Sciences with Lab | 3 |
| BSC 2010 | Biology I Cellular Processes | 3 |
| BSC 2010L | Biology I Cellular Processes Laboratory | 1 |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| CHM 2045 | General Chemistry I | 3 |
| CHM 2045L | General Chemistry & Qualitative Analysis Laboratory I | 1 |
| ESC 1000C | Earth Science | 3 |
| EVR 1001C | Introduction to Environmental Science | 3 |
| GLY 2010 | Physical Geology | 3 |
| GLY 2010L | Physical Geology Lab | 1 |
| HUN 1201 | Science of Nutrition | 3 |
| OCE 2001 | Introduction to Oceanography | 3 |
| OCE 2001L | Oceanography Laboratory | 1 |
| PHY 1053 | General Physics I | 3 |
| PHY 1048L | Physics Laboratory I | 1 |
| PHY 2048 | Physics I | 3 |
| PSC 1191L [1] | Laboratory in the Physical Sciences | 1 |

[1]Note: this course is not a Natural Science Core; 1 credit lab option

**SUPPORT COURSES: Lecture & Lab** **Credits** 12
**Option B Complete 12 credits**

| | | |
|---|---|---|
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010L | Microbiology Laboratory | 1 |

**SUPPORT COURSES** **Credits** 6
**Complete 6 credits**

| | | |
|---|---|---|
| CGS 1100 [2] | Computer Applications | 3 |
| PHI 1600 [3] | Introduction to Ethics | 3 |

[2]Completion of this course satisfies the Computer Competency General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[3]Completion of this course satisfies the Ethics General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

**MAJOR CORE COURSES** **Credits** 27
**Complete 27 credits**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HSA 1100 | Healthcare Delivery Systems | 3 |
| HSA 1102 | Current Issues in Health | 2 |
| HSA 2001 | Interprofessional Team Based Health Care | 2 |
| HSA 2182 | Health Services Management Concepts | 2 |
| HSC 1149 | General Pharmacology for Health Professionals | 1 |
| HSC 1531 | Medical Terminology I | 2 |
| HSC 2721 | Evidence-Based Healthcare Practice | 1 |

Total: 60

1. Students will demonstrate knowledge of the administration of healthcare facilities, including accreditation, licensure, reimbursement systems, legal and ethical issues, and documentation.
2. Students will submit documentation demonstrating best practices for interprofessional team-based health care based on ethics and professional obligations.
3. Students will demonstrate compliance with legal and governmental requirements related to health services management.

## Health Sciences: Health Information Technology Focus (HSA-HIT-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351070101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** Completion of the following program of study will result in an Associate in Science Degree in Health Sciences. The specialized focus in Health Information Technology refers only to the general education and support coursework and does not equate to earning a degree in Health Information Technology. You can view the program of study for the Associate in Science in Health Information Technology program here. A minimum grade of "C" is required in all courses.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 12 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

| | |
|---|---|
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |

**SUPPORT COURSES** **Credits** 9
**Complete 9 credits**

| | | |
|---|---|---|
| POS 2041 [1] | American National Government | 3 |
| CGS 1100 [2] | Computer Applications | 3 |
| PHI 1600 [3] | Introduction to Ethics | 3 |

[1]Completion of this course satisfies the Social/Behavioral Science General Education Core requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[2]Completion of this course satisfies the Computer Competency General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[3]Completion of this course satisfies the Ethics General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

**SUPPORT COURSES: Lecture & Lab** **Credits** 12
**Complete 12 credits**

| | | |
|---|---|---|
| BSC 1084C | Essentials of Human Anatomy & Physiology | 4 |
| Natural Science Core with separate lecture and lab OR if a separate lab is not available then one credit of available elective coursework (any prefix) may be used. | | |
| AST 1002 | Introduction to Astronomy | 3 |
| AST 1022L [1] | Observational Astronomy Laboratory | 1 |
| BSC 1005C | Biological Sciences with Lab | 3 |
| BSC 2010 | Biology I Cellular Processes | 3 |
| BSC 2010L | Biology I Cellular Processes Laboratory | 1 |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| CHM 2045 | General Chemistry I | 3 |
| CHM 2045L | General Chemistry & Qualitative Analysis Laboratory I | 1 |
| ESC 1000C | Earth Science | 3 |
| EVR 1001C | Introduction to Environmental Science | 3 |
| GLY 2010 | Physical Geology | 3 |
| GLY 2010L | Physical Geology Lab | 1 |

| | | |
|---|---|---|
| HUN 1201 | Science of Nutrition | 3 |
| OCE 2001 | Introduction to Oceanography | 3 |
| OCE 2001L | Oceanography Laboratory | 1 |
| PHY 1053 | General Physics I | 3 |
| PHY 1048L | Physics Laboratory I | 1 |
| PHY 2048 | Physics I | 3 |
| PSC 1191L [1] | Laboratory in the Physical Sciences | 1 |

[1]Note: this course is not a Natural Science Core; 1 credit lab option

**MAJOR CORE COURSES** **Credits** 27
**Complete 27 credits**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HSA 1100 | Healthcare Delivery Systems | 3 |
| HSA 1102 | Current Issues in Health | 2 |
| HSA 2001 | Interprofessional Team Based Health Care | 2 |
| HSA 2182 | Health Services Management Concepts | 2 |
| HSC 1149 | General Pharmacology for Health Professionals | 1 |
| HSC 1531 | Medical Terminology I | 2 |
| HSC 2721 | Evidence-Based Healthcare Practice | 1 |

Total: 60

**Program Learning Outcomes**

1. Students will demonstrate knowledge of the administration of healthcare facilities, including accreditation, licensure, reimbursement systems, legal and ethical issues, and documentation.
2. Students will submit documentation demonstrating best practices for interprofessional team-based health care based on ethics and professional obligations.
3. Students will demonstrate compliance with legal and governmental requirements related to health services management.

## Health Sciences: Nursing Focus (HSA-NURSE-AS)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Summer 2024 (635) (CIP#1351070101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** Completion of the following program of study will result in an Associate in Science Degree in Health Sciences. The specialized focus in Nursing refers only to the general education and support coursework and does not equate to earning a degree in Nursing. You can view the program of study for the Associate in Science in Nursing program here. A minimum grade of "C" is required in all courses.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| | | |
|---|---|---|
| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | | **Credits** 6 |
| *Communications - Composition- Core* | | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | | 3 |
| *Humanities and Fine Arts-Core* | | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | | 3 |
| *Computer/Information Literacy Competency* | | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | | 0 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

| | | |
|---|---|---|
| **SUPPORT COURSES**<br>**Social/Behavioral Science (Select 3 credits)** | | **Credits** 3 |
| Completion of this requirement satisfies the General Education Social/Behavioral Science and Civic Literacy course requirement for this AS degree | | |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

| | | |
|---|---|---|
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 24
**Complete 24 credits**

| | | |
|---|---|---|
| PSY 1012 [2] | General Psychology | 3 |
| STA 2023 [3] | Elementary Statistics | 3 |
| PHI 1600 [4] | Studies in Applied Ethics | 3 |
| CGS 1100 [5] | Computer Applications | 3 |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010L | Microbiology Laboratory | 1 |

[2]Completion of this course satisfies the Social/Behavioral Science General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[3]Completion of this course satisfies the Mathematics General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[4]Completion of this course satisfies the Ethics General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option
[5]Completion of this course satisfies the Computer Competency General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option

**MAJOR CORE COURSES** **Credits** 27
**Complete 27 credits.**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HSA 1100 | Healthcare Delivery Systems | 3 |
| HSA 1102 | Current Issues in Health | 2 |
| HSA 2001 | Interprofessional Team Based Health Care | 2 |
| HSA 2182 | Health Services Management Concepts | 2 |
| HSC 1149 | General Pharmacology for Health Professionals | 1 |
| HSC 1531 | Medical Terminology I | 2 |
| HSC 2721 | Evidence-Based Healthcare Practice | 1 |

Total: 60

**Program Learning Outcomes**

1. Students will demonstrate knowledge of the administration of healthcare facilities, including accreditation, licensure, reimbursement systems, legal and ethical issues, and documentation.
2. Students will submit documentation demonstrating best practices for interprofessional team-based health care based on ethics and professional obligations.
3. Students will demonstrate compliance with legal and governmental requirements related to health services management.

# Health Sciences: Physical Therapist Assistant Focus (HSA-PTA-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351070101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** Completion of the following program of study will result in an Associate in Science Degree in Health Sciences. The specialized focus in Physical Therapist Assistant (PTA) refers only to the general education and support coursework and does not equate to earning a degree in PTA. You can view the program of study for the Associate in Science in PTA program here . A minimum grade of "C" is required in all courses.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 12 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Computer/Information Literacy Competency* | 0 |

| | | |
|---|---|---|
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | | 0 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 9
**Complete 9 credits**

| | | |
|---|---|---|
| PSY 1012 | General Psychology | 3 |
| CGS 1100 [3] | Computer Applications | 3 |
| PHI 1600 [4] | Introduction to Ethics | 3 |

[3]Completion of this course satisfies the Computer Competency General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[4]Completion of this course satisfies the Ethics General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

**SUPPORT COURSES: Anatomy & Physiology/Nutrition & Wellness** **Credits** 12
**Complete 12 credits**

| | | |
|---|---|---|
| BSC 2085 [5] | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| HUN 1201 | Science of Nutrition | 3 |
| PSC 1191L | Laboratory in the Physical Sciences | 1 |

[5]Completion of this course satisfies the Natural Science Core General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option

**MAJOR CORE COURSES** **Credits** 27
**Complete 27 credits**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HSA 1100 | Healthcare Delivery Systems | 3 |
| HSA 1102 | Current Issues in Health | 2 |
| HSA 2001 | Interprofessional Team Based Health Care | 2 |
| HSA 2182 | Health Services Management Concepts | 2 |
| HSC 1149 | General Pharmacology for Health Professionals | 1 |
| HSC 1531 | Medical Terminology I | 2 |
| HSC 2721 | Evidence-Based Healthcare Practice | 1 |

Total: 60

**Program Learning Outcomes**

1. Students will demonstrate knowledge of the administration of healthcare facilities, including accreditation, licensure, reimbursement systems, legal and ethical issues, and documentation.
2. Students will submit documentation demonstrating best practices for interprofessional team-based health care based on ethics and professional obligations.
3. Students will demonstrate compliance with legal and governmental requirements related to health services management.

## Health Sciences: Radiography Focus (HSA-RAD-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351070101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** Completion of the following program of study will result in an Associate in Science Degree in Health Sciences. The specialized focus in Radiography refers only to the general education and support coursework and does not equate to earning a degree in Radiography. You can view the program of study for the Associate in Science in Radiography program here . A minimum grade of "C" is required in all courses.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 12
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Communications - Speech* | 3 |
| Complete 3 credits from the approved General Education Speech coursework . Minimum grade of "C" required. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | |
| AMH 2010 History of the United States I | 3 |
| AMH 2010H Honors History of the United States I | 3 |
| AMH 2020 History of the United States II | 3 |
| AMH 2020H Honors History of the US II | 3 |
| POS 2041 American National Government | 3 |
| POS 2041H Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 6
**Complete 6 credits**

| | | |
|---|---|---|
| PHI 1600 [1] | Introduction to Ethics | 3 |
| CGS 1100 [2] | Computer Applications | 3 |

[1]Completion of this course satisfies the Ethics General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

[2]Completion of this course satisfies the Computer Competency General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

**SUPPORT COURSES: Math** **Credits** 3
**Complete 3 credits**

| | | |
|---|---|---|
| | | 3 |
| MAC 1105 [3] | College Algebra | 3 |
| OR | | |
| MAC 1114 [3] | Trigonometry | 3 |

[3]Completion of this course satisfies the Mathematics General Education Core requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

**SUPPORT COURSES: Anatomy & Physiology/Nutrition & Wellness** **Credits** 12
**Complete 12 credits**

| | | |
|---|---|---|
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| HUN 1201 | Science of Nutrition | 3 |
| PSC 1191L | Laboratory in the Physical Sciences | 1 |

**MAJOR CORE COURSES** **Credits** 27
**Complete 27 credits**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HSA 1100 | Healthcare Delivery Systems | 3 |
| HSA 1102 | Current Issues in Health | 2 |
| HSA 2001 | Interprofessional Team Based Health Care | 2 |
| HSA 2182 | Health Services Management Concepts | 2 |
| HSC 1149 | General Pharmacology for Health Professionals | 1 |
| HSC 1531 | Medical Terminology I | 2 |
| HSC 2721 | Evidence-Based Healthcare Practice | 1 |

Total: 60

**Program Learning Outcomes**

1. Students will demonstrate knowledge of the administration of healthcare facilities, including accreditation, licensure, reimbursement systems, legal and ethical issues, and documentation.
2. Students will submit documentation demonstrating best practices for interprofessional team-based health care based on ethics and professional obligations.
3. Students will demonstrate compliance with legal and governmental requirements related to health services management.

# Health Sciences: Respiratory Care Focus (HSA-RESC-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351070101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** Completion of the following program of study will result in an Associate in Science Degree in Health Sciences. The specialized focus in Respiratory Care refers only to the general education and support coursework and does not equate to earning a degree in Respiratory Care. You can view the program of study for the Associate in Science in Respiratory Care program here. A minimum grade of "C" is required in all courses.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| | |
|---|---|
| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 15 |
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Social and Behavioral Sciences* | 3 |

| | | |
|---|---|---|
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. | | 3 |
| *Computer/Information Literacy Competency* | | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | | 0 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 6
**Complete 6 credits**

| | | |
|---|---|---|
| CGS 1100 [2] | Computer Applications | 3 |
| PHI 1600 [3] | Introduction to Ethics | 3 |

[2]Completion of this course satisfies the Computer Competency General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[3]Completion of this course satisfies the Ethics General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

**SUPPORT COURSES: Anatomy & Physiology/Microbiology** **Credits** 12
**Complete 12 credits**

| | | |
|---|---|---|
| BSC 2085 [4] | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010L | Microbiology Laboratory | 1 |

[4]Completion of this course satisfies the Natural Science General Education core requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

**MAJOR CORE COURSES** **Credits** 27
**Complete 27 credits**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HSA 1100 | Healthcare Delivery Systems | 3 |
| HSA 1102 | Current Issues in Health | 2 |
| HSA 2001 | Interprofessional Team Based Health Care | 2 |
| HSA 2182 | Health Services Management Concepts | 2 |
| HSC 1149 | General Pharmacology for Health Professionals | 1 |
| HSC 1531 | Medical Terminology I | 2 |
| HSC 2721 | Evidence-Based Healthcare Practice | 1 |

Total: 60

**Program Learning Outcomes**

1. Students will demonstrate knowledge of the administration of healthcare facilities, including accreditation, licensure, reimbursement systems, legal and ethical issues, and documentation.
2. Students will submit documentation demonstrating best practices for interprofessional team-based health care based on ethics and professional obligations.
3. Students will demonstrate compliance with legal and governmental requirements related to health services management.

## Health Services: Surgical Services Focus (HSA-SURG-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351070100)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

Completion of the following program of study will result in an Associate in Science Degree in Health Sciences. The specialized focus in Surgical Technology refers only to the general education and support coursework and does not equate to earning a degree in Surgical Technology. You can view the program of study for the Associate in Science in Surgical Technology program here.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 15
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Social and Behavioral Sciences* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. | 3 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

| | |
|---|---|
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |

**SUPPORT COURSES** **Credits** 6
**Complete 6 credits**

| | | |
|---|---|---|
| CGS 1100 [2] | Computer Applications | 3 |
| PHI 1600 [3] | Introduction to Ethics | 3 |

[2]Completion of this course satisfies the Computer Competency General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[3]Completion of this course satisfies the Ethics General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

**SUPPORT COURSES: Anatomy & Physiology/Nutrition & Wellness** **Credits** 12
**Complete 12 credits**

| | | |
|---|---|---|
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| HUN 1201 | Science of Nutrition | 3 |
| PSC 1191L | Laboratory in the Physical Sciences | 1 |

**MAJOR CORE COURSES** **Credits** 27
**Complete 27 credits**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HSA 1100 | Healthcare Delivery Systems | 3 |
| HSA 1102 | Current Issues in Health | 2 |
| HSA 2001 | Interprofessional Team Based Health Care | 2 |
| HSA 2182 | Health Services Management Concepts | 2 |
| HSC 1149 | General Pharmacology for Health Professionals | 1 |
| HSC 1531 | Medical Terminology I | 2 |
| HSC 2721 | Evidence-Based Healthcare Practice | 1 |

Total: 60

**Program Learing Outcomes**

1. Students will demonstrate knowledge of the administration of healthcare facilities, including accreditation, licensure, reimbursement systems, legal and ethical issues, and documentation.
2. Students will submit documentation demonstrating best practices for interprofessional team-based health care based on ethics and professional obligations.
3. Students will demonstrate compliance with legal and governmental requirements related to health services management.

## Health Sciences: Veterinary Technology Focus (HSA-VETTC-AS)

**Summary**

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 15
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Communications - Speech* | 3 |
| Complete 3 credits from the approved General Education Speech coursework . Minimum grade of "C" required. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | |
| AMH 2010 History of the United States I | 3 |
| AMH 2010H Honors History of the United States I | 3 |
| AMH 2020 History of the United States II | 3 |
| AMH 2020H Honors History of the US II | 3 |
| POS 2041 American National Government | 3 |
| POS 2041H Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 6
**Complete 6 credits**

| | | |
|---|---|---|
| CGS 1100 [1] | Computer Applications | 3 |
| PHI 1600 [2] | Introduction to Ethics | 3 |

[1]Completion of this course satisfies the Computer Competency General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.
[2]Completion of this course satisfies the Ethics General Education requirement for an AS degree. Equivalent courses (i.e. Honors, IDS) may also be an option.

**SUPPORT COURSES: Anatomy & Physiology/Nutrition & Wellness** **Credits** 8
**Complete 8 credits**

| | | |
|---|---|---|
| BSC 1084C | Essentials of Human Anatomy & Physiology | 4 |
| HUN 1201 | Science of Nutrition | 3 |
| PSC 1191L | Laboratory in the Physical Sciences | 1 |
| ***OR*** | | |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |

**SUPPORT COURSES: Lecture & Lab** **Credits** 4
**Complete 4 credits**

Natural Science Core with separate lecture and lab OR if a separate lab is not available then one credit of available elective coursework (any prefix) may be used.

| | | |
|---|---|---|
| AST 1002 | Introduction to Astronomy | 3 |
| BSC 1005C | Biological Sciences with Lab | 3 |
| BSC 2010 | Biology I Cellular Processes | 3 |
| BSC 2010L | Biology I Cellular Processes Laboratory | 1 |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| CHM 2045 | General Chemistry I | 3 |
| CHM 2045L | General Chemistry & Qualitative Analysis Laboratory I | 1 |
| ESC 1000C | Earth Science | 3 |
| EVR 1001C | Introduction to Environmental Science | 3 |
| GLY 2010 | Physical Geology | 3 |
| GLY 2010L | Physical Geology Lab | 1 |
| OCE 2001 | Introduction to Oceanography | 3 |
| OCE 2001L | Oceanography Laboratory | 1 |
| PHY 1053 | General Physics I | 3 |
| PHY 1048L | Physics Laboratory I | 1 |
| PHY 2048 | Physics I | 3 |

**MAJOR CORE COURSES** **Credits** 27
**Complete 27 credits**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| HSA 1100 | Healthcare Delivery Systems | 3 |
| HSA 1102 | Current Issues in Health | 2 |
| HSA 2001 | Interprofessional Team Based Health Care | 2 |

| | | |
|---|---|---|
| HSA 2182 | Health Services Management Concepts | 2 |
| HSC 1149 | General Pharmacology for Health Professionals | 1 |
| HSC 1531 | Medical Terminology I | 2 |
| HSC 2721 | Evidence-Based Healthcare Practice | 1 |

Total: 60

## Health Services Administration (HSA-BAS)

**Program Summary**

**Effective Catalog Term: Fall 2025 (655) through Present (CIP#1105122111)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** If you are currently working in or have previous training in a health or human services field and want to move up in your career, our Health Services Administration bachelor's degree may be your ticket. Designed to prepare you for career advancement or entry-level supervisory or managerial positions, this degree offers specialized concentrations depending on your background. Features: Classes are offered online in 8-week sessions. The final semester Capstone Course is a 16-week Experience that integrates your career interests and professional goals. Students are responsible for securing a mentor for the capstone course, and for developing their capstone project proposal in collaboration with the mentor during the pre-capstone course. Students enroll in the pre-capstone course immediately preceding the capstone course. Students will gain: A broad-based knowledge of health care delivery systems, a better understanding of health care policies, ethics and current issues, as well as effective communication, leadership and critical thinking skills.

**Estimated total program cost: $11,039.21**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSION REQUIREMENTS** **Credits** 60

Complete a minimum of 60 credits from a regionally accredited institution.

**STATE MANDATED PREREQUISITES** **Credits**
**State Mandated Prerequisites**

No State Mandated Prerequisites are required.

**LOWER DIVISION SUPPORT COURSES** **Credits** 20
**Lower Division Requirement (Select 20 credits)**

*Students admitted to the program without an AS in a health related field or a minimum of 20 credits in health related courses may need to complete additional lower division coursework.*

| | | |
|---|---|---|
| HSA 2001 [1] | Interprofessional Team Based Health Care | 2 |
| HSA 2182 [1] | Health Services Management Concepts | 2 |
| HSC 2721 [1] | Evidence-Based Healthcare Practice | 1 |
| ACG 2021 | Financial Accounting | 3 |
| CGS 1100 | Computer Applications | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| ENC 2210 | Technical Writing | 3 |
| HIM 1430 | Principles of Disease | 2 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2500 | Organization and Supervision | 2 |
| HIM 2510 | Healthcare Quality and Performance Improvement | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |
| PHI 2103 | Critical Thinking and Ethical Decision Making | 3 |
| SPC 2300 | Interpersonal Communication | 3 |

[1]Completion of HSA 2001, HSA 2182 and HSC 2721 help to provide foundational knowledge for students without a health related background.

**MAJOR CORE COURSES** **Credits** 18
**Major Requirements (Complete 18 credits)**

| | | |
|---|---|---|
| HSA 4184 | Leadership & Management in Health & Human Services Organizations | 3 |
| HSA 3104 | Health Care Delivery in the United States | 3 |
| HSA 3702 | Research Methods in Health & Human Services | 3 |
| HSC 3201 | Community Health and Epidemiology | 3 |
| HSA 3170 | Health & Human Services Finance | 3 |
| HSA 4140 | Strategic Management and Planning in Health & Human Services | 3 |

**MAJOR CORE COURSES** **Credits** 7
**Required Major Capstone Course (Complete 7 Credits)**

| | | |
|---|---|---|
| HSC 4931 | Health & Human Services Administration Pre-Capstone | 3 |
| HSC 4910 | Health & Human Services Administration Capstone | 4 |

**SUBPLAN** **Credits** 15
**Select ONE subplan from below (Complete 15 credits)**
**SUBPLAN**
**Clinical Documentation Improvement Specialist (CDI) (Complete 15 credits)**

| | | |
|---|---|---|
| HIM 3240 | CDI Principles and Practice | 3 |
| HIM 3243 | Coding and Reimbursement for CDI Professionals | 3 |
| HSA 4191 | Health Information Systems | 3 |
| HUS 3321 | Case Management and Problem-Solving for Human Services | 3 |
| HIM 3852 | Clinical Documentation Practitioner Practicum Experience | 3 |

**SUBPLAN CORE COURSES**
**Compliance and Security (HIS) (Complete 6 credits)**

| | | |
|---|---|---|
| HSA 4191 | Health Information Systems | 3 |
| HSA 4192 | Applied Health Information/Informatics | 3 |

**SUBPLAN ELECTIVE COURSES**
**Compliance and Security (HIS) (Select 9 credits)**

| | | |
|---|---|---|
| HSA 3113 | Contemporary Issues in Health Care & Human Services | 3 |
| HSA 4502 | Health Care Risk Management | 3 |
| HSC 4640 | Legal & Ethical Aspects of Health Care | 3 |
| ISM 4323 | Security Essentials | 3 |
| MAN 4584 | Process Improvement Methodologies | 3 |

**SUBPLAN COURSES**
**Management (HSA) (Select 15 credits)**

| | | |
|---|---|---|
| HSA 4502 | Health Care Risk Management | 3 |
| HSC 3243 | Educational Concepts in Allied Health Education | 3 |
| HSC 4640 | Legal & Ethical Aspects of Health Care | 3 |
| HSC 3211 | Concepts of Health Promotion & Disease Prevention | 3 |
| MAN 3240 | Applied Organizational Behavior | 3 |
| MAN 3301 | Public Personnel Management | 3 |
| MAN 4102 | Management of Cultural Dynamics | 3 |
| MAN 4584 | Process Improvement Methodologies | 3 |

**SUBPLAN COURSES**
**Human Services (HUS) (Select 15 credits)**

| | | |
|---|---|---|
| HSC 3243 | Educational Concepts in Allied Health Education | 3 |
| HSC 3211 | Concepts of Health Promotion & Disease Prevention | 3 |
| HUS 3321 | Case Management and Problem-Solving for Human Services | 3 |
| HUS 3370 | Issues In Mental Health | 3 |
| HUS 3570 | Vulnerable Populations:Health and Health Care Issues | 3 |
| HUS 4442 | Substance Abuse and the Family | 3 |
| HUS 4561 | Social Problems and Policy | 3 |

**SUBPLAN COURSES**
**Public Relations and Marketing (PRMKT) (Select 15 credits)**

| | | |
|---|---|---|
| HSA 3113 | Contemporary Issues in Health Care & Human Services | 3 |
| HSC 3211 | Concepts of Health Promotion & Disease Prevention | 3 |
| HSC 3243 | Educational Concepts in Allied Health Education | 3 |
| MAN 3802 | Principles of Entrepreneurship | 3 |
| MAN 4102 | Management of Cultural Dynamics | 3 |
| MAN 4625 | Managing Global Human Resources | 3 |
| MAR 3802 | Marketing Management | 3 |
| MAR 4413 | Sales and Customer Relationship Management | 3 |

Total: 120

**Program Learning Outcomes**

1. Develop the knowledge, skills, attitudes and values necessary for positions of responsibility and leadership in the continually changing health care or human services profession.

2. Provide advanced professional and educational services using the appropriate interpersonal, written communication and critical thinking skills required for successful performance in the health care or human services professions.
3. Acquire knowledge in a technologically advanced manner.
4. Apply the principles of sound research design to the critical evaluation of scientific literature related to the health care or human service professions.

## Healthcare Data Management (HCINF-CT)

**Program Summary**

**Effective Catalog Term: Fall 2021 (595) through Present (CIP#0351070712)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

(Transferable to an Associate's Degree in Health Information Management at SPC) This program is designed to prepare students for employment as entry level Data Management Specialists or to provide supplemental training for persons previously or currently employed in related health record or information technology occupations.

**Estimated total program cost: $5,191.22**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSIONS COURSES** **Credits** 5
**Support Courses**

Grade of "C" or better required in ALL courses.

| | | |
|---|---|---|
| CGS 1100 | Computer Applications | 3 |
| HSC 1531 | Medical Terminology I | 2 |

**MAJOR CORE COURSES** **Credits** 10
**1st Term in Program**

| | | |
|---|---|---|
| HIM 1101 | HIM Standards and Practice | 3 |
| HIM 1511 | Healthcare Informatics and Data Workflow | 3 |
| HIM 1005 | Healthcare Informatics Project Management | 2 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |

**MAJOR CORE COURSES** **Credits** 9
**2nd Term in Program**

| | | |
|---|---|---|
| HIM 2012 | Health Law Concepts and Practices | 2 |
| HIM 2201 | Introduction to Statistics and Data Analysis | 3 |
| HIM 1800 | Professional Practice Experience I | 3 |
| HIM 2960 | Credentialing Exam Review | 1 |

Total: 24

**Program Learning Outcomes**

1. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of the Organizational and Technological Environments.
2. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of System Analysis, Design, Selection, Implementation, Support, Maintenance, Testing and Evaluation.
3. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Privacy and Security.
4. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Leadership and Management Support.

## Help Desk Support Specialist (HDSK-CT)

**Program Summary**

**Effective Catalog Term: Summer 2017 (530) through Present (CIP#0511010313)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This certificate program prepares the student to work in a help desk support position for installing, configuring, managing and monitoring hardware and software applications in a stand-alone or networked environment. Students will be provided with ongoing user support skills in the field of information technology.

**Estimated total program cost: $3,233.34**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18

| | | |
|---|---|---|
| CET 1171C | Computer Repair Essentials | 3 |
| CET 1172C | Computer Support Technician | 3 |

| | | |
|---|---|---|
| CGS 1100 | Computer Applications | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| CGS 1545 | Database Techniques | 3 |
| CTS 1120 | Network Security Foundations | 3 |

Total: 18

**Program Learning Outcomes**

1. Install, configure, manage, deploy, monitor and troubleshoot a networked server environment.
2. Install, configure, manage, and troubleshoot an operating system.
3. Install, configure, upgrade and troubleshoot computer hardware.
4. Install, configure and troubleshoot system and device driver software and implement basic security measures.
5. Perform customer service skills.
6. Perform help desk support activities.

## Homeland Security (HLS-CT)

**Program Summary**

**Effective Catalog Term: Fall 2023 (625) through Present (CIP#0743030202)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This certificate is a comprehensive certificate focused on policy, planning and administration of emergency response teams and systems. This certificate focuses on homeland security and integrates the practical, technical and communication aspects of emergency management. Program participants will gain an understanding of problems facing response teams, learn to write emergency plans according to local, state, and federal guidelines and build communications skills as crisis advisors. These courses apply towards the Emergency Administration and Management Associate in Science degree.

**Estimated total program cost: $3,481.23**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 24

| | | |
|---|---|---|
| DSC 1002 | Domestic & International Terrorism | 3 |
| DSC 1004 | Introduction to the NRF and NIMS | 3 |
| DSC 1033 | Weapons of Mass Destruction | 3 |
| DSC 1222 | Psychological Management of Weapons Of Mass Destruction Victims | 3 |

| | | |
|---|---|---|
| DSC 1552 | Critical Infrastructure Protection | 3 |
| DSC 1562 | Homeland Security Threat Strategy | 3 |
| DSC 1631 | Terrorism Response Planning | 3 |
| DSC 1751 | Homeland Security Policy & Law | 3 |

Total: 24

**Program Learning Outcomes**

1. Demonstrate knowledge of emergency operations planning system.
2. Demonstrate knowledge of the administrative role of the emergency manager.
3. Demonstrate knowledge of emergency management operations.
4. Demonstrate knowledge of long- and short-term recovery programs.
5. Demonstrate knowledge of emergency management training and education programs.
6. Demonstrate knowledge of the facilities and equipment used in comprehensive emergency management.

# Homeland Security and Emergency Management (EAM-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1743030200)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** The Associate in Science degree program allows students to not only graduate with an AS degree, but also be able to meet the entrance requirements to continue the BAS degree in Public Safety. Additional information on the PSA-BAS degree may be found here.

**Estimated total program cost: $8,982.93**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 18
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |

| | | |
|---|---|---|
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | | 3 |
| *Humanities and Fine Arts-Core* | | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | | 3 |
| *Mathematics-Core* | | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | | 3 |
| *Natural Sciences - Core* | | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | | 3 |
| *Social and Behavioral Sciences- Core* | | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | | 3 |
| *Ethics* | | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | | 3 |
| *Computer/Information Literacy Competency* | | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | | 0 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**MAJOR CORE COURSES** **Credits** 18
**Complete 18 credits**

| | | |
|---|---|---|
| FFP 1505 | Fire Prevention | 3 |

| | | |
|---|---|---|
| FFP 1109 | Fire Department Occupational Safety and Health | 3 |
| FFP 2881 | Emergency Management Leadership and Administration | 3 |
| DSC 1004 | Introduction to the NRF and NIMS | 3 |
| CCJ 2358 | Capstone: Criminal Justice Report Writing | 3 |
| FFP 2120 | Building Construction for the Fire Service | 3 |

**SUBPLAN** **Credits** 24

**Select one subplan from below (Complete 24 credits)**

**SUBPLAN CORE COURSES** **Credits** 0

**Subplan: Emergency Administration & Management (EAM) (Complete 24 credits)**

| | | |
|---|---|---|
| DSC 1002 | Domestic & International Terrorism | 3 |
| DSC 1631 | Terrorism Response Planning | 3 |
| FFP 1830 | Introduction to Hazards | 3 |
| FFP 2800 | Emergency Management Public Education Programs | 3 |
| FFP 2801 | Fundamentals of Emergency Management | 3 |
| DSC 1552 | Critical Infrastructure Protection | 3 |
| FFP 2840 | Disaster Recovery Operations | 3 |
| FFP 2841 | Contingency Planning for Business and Industry | 3 |

**SUBPLAN CORE COURSES** **Credits** 0

**Subplan: Homeland Security (HLS) (Complete 24 credits)**

| | | |
|---|---|---|
| DSC 1002 | Domestic & International Terrorism | 3 |
| DSC 1033 | Weapons of Mass Destruction | 3 |
| DSC 1222 | Psychological Management of Weapons Of Mass Destruction Victims | 3 |
| DSC 1552 | Critical Infrastructure Protection | 3 |
| DSC 1562 | Homeland Security Threat Strategy | 3 |
| DSC 1631 | Terrorism Response Planning | 3 |
| DSC 1751 | Homeland Security Policy & Law | 3 |
| FFP 2840 | Disaster Recovery Operations | 3 |

**SUBPLAN CORE COURSES** **Credits** 0

**Subplan: Fire Science (FIRESCI) (Complete 24 credits)**

| | | |
|---|---|---|
| FFP 1000 * | Fundamentals of Fire Protection | 3 |
| FFP 1103 | Florida Incident Safety Officer | 3 |
| FFP 1111 | Fire Chemistry | 3 |
| FFP 1540 | Private Fire Protection Systems I | 3 |
| FFP 2541 | Private Fire Protection Systems II | 3 |
| FFP 2706 | Fire Service Public Information Officer | 3 |
| FFP 2720 | Company Officer | 3 |
| FFP 2740 | Fire Service Course Delivery | 3 |
| FFP 2741 | Fire Service Course Design | 3 |
| FFP 2810 | Firefighting Tactics and Strategy I | 3 |
| FFP 2811 | Firefighting Tactics and Strategy II | 3 |

*This course represents articulated credit for students who have completed the Fire Academy.

Total: 60

**Program Learning Outcomes**

1. Apply the principles of emergency operations planning systems in emergency and event circumstances.
2. Propose emergency management training and education programs that enhance public and responder safety.
3. Determine the appropriate emergency management actions in specific situations that address standards at the federal, state, and local levels.
4. Describe the different kinds of professional development necessary for advancement in the Emergency Management profession.

## Hospitality and Tourism Management (HMGT-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Summer 2029 (710) (CIP#1252090101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

*****THIS PROGRAM IS NO LONGER ACCEPTING STUDENTS. LAST ADMISSION TERM IS SUMMER 2024 (635).*****
Students are exposed to a variety of courses in business administration in addition to hotel management courses, which enables them to make appropriate business decisions. The goal of this program is to prepare successful students for careers in hotels, cruise ships, resorts and restaurants or transferring to a state university in the same discipline. The general college admissions policy applies to all students entering the Hospitality and Tourism Management program. Fully transferable to a Bachelor's Degree at University of South Florida - Sarasota/ Manatee.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| | |
|---|---|
| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |

| | | |
|---|---|---|
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | | 3 |
| *Natural Sciences - Core* | | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | | 3 |
| *Social and Behavioral Sciences- Core* | | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | | 3 |
| *Ethics* | | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | | 3 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits**

**Computer/Information Literacy Competency (Complete 1 course)**

Completion of this requirement satisfies the General Education Computer/Information Literacy Competency Requirement

**MAJOR CORE COURSES** **Credits** 42

**Complete 42 credits**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| GEB 1011 | Introduction to Business | 3 |
| FSS 2235C | Introductory Food Production Management | 3 |
| HFT 1000 | Introduction to the Hospitality and Tourism Industry | 3 |
| HFT 1300 | Housekeeping Operations | 3 |
| HFT 1410 | Front Office Procedures | 3 |
| HFT 1941 | Operations and Service Practicum | 2 |
| HFT 2265 | Food Service Operations | 3 |

| | | |
|---|---|---|
| HFT 2450 | Hospitality Cost Controls | 3 |
| HFT 2600 | Hospitality Law | 3 |
| HFT 2750 * | The Event Industry | 3 |
| HFT 2942 | Hospitality Internship | 3 |
| MAN 2340 | Supervisory Management | 3 |
| MAR 2011 | Principles of Marketing | 3 |
| MNA 1751 | Customer Service I: Developing A Spirit of Customer Service | 1 |

*Previously HFT XXXX. Updated 11.1.2017

Total: 60

**Program Learning Outcomes**

1. Student will describe the many facets of the hospitality and tourism industry.
2. Students will demonstrate managing diversity in the workplace and identify characteristics of High-performance teams.
3. Students will demonstrate procedures for control systems and housekeeping safety.
4. Students will demonstrate front-office procedures for auditing, room profitability, and etiquette.
5. Students will apply marketing concepts for segmentation, channeling, product/service mix, and research in the hospitality industry.
6. Students will demonstrate professional attitudes and customer service skills for success in the hospitality workplace.
7. Students will apply food and beverage operations skills in menu engineering, nutrition, and facilities design.
8. Students will describe and identify the spheres of cost control in food preparation and presentation.
9. Students will identify legal issues for operating hotels and restaurants.
10. The student will be able to apply classroom knowledge in the workplace.
11. The student will be able to develop an understanding of the hospitality work place.
12. Students will apply effective communication skills to identify the needs of the customer.
13. Students will identify opportunities to offer customers products and service add-ons.

# Human Services (HUMSVC-BS)

## Program Summary

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1104400001)**

The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Human Services Bachelor of Science (BS) degree offers a distinctive opportunity for interdisciplinary study drawing students from the lower division human services programs and students pursuing an A.A. degree with a psychology, social work or sociology sub plan. The degree appeals to students who may be working in the field in entry-level positions and can directly apply the concepts they learn in the classroom. Students can utilize their education immediately upon graduation as this degree does not require a commitment to graduate school. The BS, however, will prepare students to pursue graduate work in disciplines such as human services, counseling, psychology, addiction studies, health sciences, applied behavior analysis, rehabilitative & mental health counseling, social work, business, etc. An additional distinctive feature of the BS degree will include service learning as a critical component.

**Estimated total program cost: $9,947.02**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

# Program Requirements

**AA GENERAL EDUCATION REQUIREMENTS** **Credits** 60
**AA General Education Requirement**
**GENERAL EDUCATION REQUIREMENT** **Credits**
**Additional General Education Courses - Grade of "C" or higher required**

For A.S. degree holders, an additional 15-21 general education credits are required to complete the thirty-six (36) credit hour general education requirement of St. Petersburg College.

| | |
|---|---|
| A. COMMUNICATIONS: COMP II | 3 |
| B. HUMANITIES/FINE ARTS | 3 |
| C. MATHEMATICS | 3 |
| D. NATURAL & PHYSICAL SCIENCES | 6 |
| E. SOCIAL & BEHAVIORAL SCIENCES | 3 |

**STATE MANDATED PREREQUISITES** **Credits**

There are no State Mandated Prerequisites at this time.

**LOWER DIVISION SUPPORT COURSES** **Credits** 18
**Human Services Support Courses**

For A.A. degree holders, an additional 18 credits of lower division, human services coursework must be completed. This provides the foundation knowledge necessary to successfully complete the upper division coursework.

| | | |
|---|---|---|
| HUS 1111 | Introduction to Intra and Inter-Personal Processes | 3 |
| HUS 1318 | Domestic Abuse and Family Violence | 1 |
| HUS 1320 | Theories and Foundations of Crisis Intervention | 1 |
| HUS 1445 | Practices for Working With Dysfunctional Family Systems | 2 |
| HUS 1450 | Dual Diagnosis I | 2 |
| HUS 2200 | Dynamics of Groups and Group Counseling | 3 |
| HUS 2302 | Basic Counseling Skills | 3 |
| SYG 2324 | Principles of Substance Abuse | 3 |

**MAJOR CORE COURSES** **Credits** 42
**Complete 42 Credits**

| | | |
|---|---|---|
| HUS 3020 | Human Development Through the Lifespan | 3 |
| HUS 3204 | Advanced Group Dynamics | 3 |
| HUS 3321 | Case Management and Problem-Solving for Human Services | 3 |
| HUS 3335 | Advanced Counseling & Interviewing Skills | 3 |
| HUS 3370 | Issues In Mental Health | 3 |
| HUS 3505 | Ethics in Human Services | 3 |
| HUS 3601 | Human Services Social Research | 3 |
| HUS 4333 | Assessment & Interventions in Mental Health | 3 |
| HUS 4442 | Substance Abuse and the Family | 3 |
| HUS 4553 | Multicultural Perspectives in Human Services | 3 |
| HUS 4561 | Social Problems and Policy | 3 |
| HUS 4650 | Administration in Human Services | 3 |
| HUS 4700 | Advanced Treatment & Management | 3 |
| HUS 4945 | Human Services Internship | 3 |

Total: 120

**Program Learning Outcomes**

1. Apply the principles of social services provision to a variety of diverse settings within the human services delivery system and examine current social issues and human services trends and their impact on society, including mental/behavioral health, domestic violence, abuse, neglect, poverty, substance abuse and dependence.
2. Demonstrate a professional demeanor that uses interpersonal skills within the professional setting, including active listening, reflecting, clarifying, using open-ended questions, and responding accurately to verbal and nonverbal behavior.
3. Apply case management skills, including documentation, assessment, treatment planning, crisis intervention and the ability to make appropriate referrals, identify and access human services resources, including on-line data bases, directories, and referral centers.
4. Demonstrate the ability to adhere to professional, ethical standards in human services practice, including confidentiality, informed consent, self-disclosure, boundaries, and demonstrate sensitivity when working with diverse populations.
5. Demonstrate awareness of one's personal development, values, and personal challenges and strengths as they relate to one's personal and professional development and practice and understand the responsibility for ongoing professional growth and development.

## Infant and Toddler Specialization Certificate (ITSP-CT)

**Program Summary**

**Effective Catalog Term: Spring 2015 (495) through Present (CIP#0419070907)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Infant and Toddler Specialization Certificate (ITSP-CT) coursework is part of an A.A. transfer pathway to several degree options in the College of Education. After you complete the appropriate A.A. transfer pathway, you can transfer into our Bachelor of Science Prekindergarten/Primary degree (PKPED-BS), which leads to certification in the state of Florida, or our Bachelor of Science degree in Educational Studies and Community Leadership - Preschool Education subplan (EDST-BS / PREEDU).

**Estimated total program cost: $1,557.00**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 12
**Complete 12 credits**

| | | |
|---|---|---|
| EEC 1603 | Early Childhood Development | 3 |
| EEC 1512 | Caring for Infants and Toddlers | 3 |
| EEC 1223 | Observation and Assessment in Early Childhood | 3 |
| EEC 2271 | Introduction to Working with Young Children with Special Needs | 3 |

Total: 12

**Program Learning Outcomes**

1. Students will demonstrate knowledge of health, safety, and nutrition and developmentally appropriate environments for infants and toddlers.
2. Students will display understanding of infant and toddler growth and development to foster appropriate social and emotional development.
3. Students will gain knowledge of how to build positive relationships with children, families, and communities.

## Laboratory Specialist (LAB-ATC)

**Program Summary**

**Effective Catalog Term: Fall 2020 (580) through Summer 2026 (665) (CIP#0341010166)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

A Laboratory Specialist Advanced Technical Certificate (ATC) provides students with exposure to the principles of biological sciences, chemistry and mathematics necessary for success in a scientific work environment.

Laboratory technicians work under the direction of a laboratory supervisor and have diverse work environments that range from government laboratories to manufacturing laboratory environments. Many of the courses contained within this certificate are also prerequisites for Allied Health and STEM (science, technology, engineering and mathematics) degree programs.

Credits within this certificate may apply towards the State Mandated Prerequisites for the Biology degree (B.S.). Some credits from this certificate can also be applied toward the Biotechnology A.S. degree at SPC. Students may pursue one or more certificates to develop or upgrade their skills in a particular field, or pursue the A.S. and B.S. degree and earn technical certificates while completing the requirements for the degree

NOTE: Many courses for this certificate have prerequisite requirements and/or co-requisite courses listed in the course descriptions. Students are advised to be guided by these requirements.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 8
**Professional Coursework Biological Sciences (Complete 8 credits)**

Lecture courses must be taken with corresponding lab.

| | | |
|---|---|---|
| BSC 2010CH | Honors Biology I Cellular Processes with Laboratory | 4 |
| BSC 2010 | Biology I Cellular Processes | 3 |
| BSC 2010L | Biology I Cellular Processes Laboratory | 1 |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2011 | Biology II Organisms & Ecology | 3 |
| BSC 2011L | Biology II Laboratory | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |

**MAJOR CORE COURSES** **Credits** 16
**Professional Coursework Chemical Laboratory (Complete 16 credits)**

| | | |
|---|---|---|
| CHM 2045 | General Chemistry I | 3 |
| CHM 2045L | General Chemistry & Qualitative Analysis Laboratory I | 1 |
| CHM 2046 | General Chemistry II | 3 |
| CHM 2046L | General Chemistry Laboratory II | 1 |
| CHM 2210 | Organic Chemistry I | 3 |
| CHM 2210L | Organic Chemistry Laboratory I | 1 |
| CHM 2211 | Organic Chemistry II | 3 |
| CHM 2211L | Organic Chemistry Laboratory II | 1 |

**MAJOR ELECTIVE COURSES** **Credits** 20
**Professional Elective Coursework (Complete 20 credits)**

Lecture courses must be taken with corresponding lab.

| | | |
|---|---|---|
| BCH 4024 | Biochemistry | 4 |
| BSC 2419C | Cell Culture | 3 |
| BSC 2420 | Introduction to Biotechnology | 3 |
| BSC 2426C | Biotechnology Methods I | 4 |
| BSC 2427C | Biotechnology Methods II | 4 |
| BSC 2435 | Introduction to Bioinformatics | 3 |

| | | |
|---|---|---|
| BSC 2461 | Introduction to Biotechnology Model Systems | 3 |
| BSC 3932 | Scientific Communication | 2 |
| CHM 1025 | Introductory Chemistry | 3 |
| CHM 1025L | Introductory Chemistry Lab | 1 |
| MAC 1114 | Trigonometry | 3 |
| MAC 1140 | Pre-Calculus Algebra | 3 |
| MAC 2311 | Calculus with Analytic Geometry I | 5 |
| MAC 2312 | Calculus with Analytic Geometry II | 5 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010CH | Honors Microbiology with Laboratory | 4 |
| MCB 2010L | Microbiology Laboratory | 1 |
| MCB 3020 | Microbiology | 3 |
| MCB 3020L | Microbiology Lab | 1 |
| PCB 3023 | Cell Biology | 3 |
| PCB 3023L | Cell Biology Laboratory | 1 |
| PCB 3063 | Genetics | 3 |
| PCB 3063L | Genetics Lab | 1 |
| PCB 4454C | Biostatistics with Lab | 4 |
| PHY 1048L | Physics Laboratory I | 1 |
| PHY 1049L | Physics Laboratory II | 1 |
| PHY 1053 | General Physics I | 3 |
| PHY 1054 | General Physics II | 3 |
| PHY 2048 | Physics I | 3 |
| PHY 2049 | Physics II | 3 |
| STA 2023 | Elementary Statistics | 3 |
| STA 2023H | Honors Elementary Statistics | 3 |

Total: 44

**Program Learning Outcomes**

1. Demonstrate technical knowledge and skills by operating laboratory equipment according to standard procedures, assessing quality assurance, and adhering to safety practices in the laboratory environment.
2. Use the scientific method to ask testable questions and to design and conduct laboratory investigations to address these questions.
3. Employ mathematical and computational skills to organize, analyze, and evaluate biological data.

## Lean Six-Sigma Green Belt (LEAN-CT)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Present (CIP#0615070203)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This Green Belt certificate provides a series of courses that focuses on the concepts, theories, and tools of the Lean Enterprise and Six Sigma as used in the manufacturing and services industries. The program covers the methods used in Lean and Six Sigma such as continuous flow, overall equipment effectiveness (OEE), Kaizen, process mapping, the 5S's, total productive maintenance (TPM), cellular manufacturing, the DMAIC, self-directed work teams, the kanban system, design for manufacturing, and value steam mapping. Throughout industry today there is a significant need of individuals educated in the methods of the concepts and tools of the Lean Enterprise and Six Sigma. The courses in this Green Belt certificate program are part of the Quality Specialty Subplan in the AS degree in Engineering Technology.

**Estimated total program cost: $2,041.38**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 12

| | | |
|---|---|---|
| ETI 1622 | Intro to Lean Six Sigma | 3 |
| ETI 1110 | Introduction to Quality Assurance | 3 |
| ETI 2610 | Six Sigma Methodology and Tools | 3 |
| ETI 2623 | Lean Systems | 3 |

Total: 12

**Program Learning Outcomes**

1. Demonstrate proficiency in lean manufacturing/production.
2. Demonstrate proficiency in developing self-directed work teams.
3. Demonstrate proficiency in the tools of lean manufacturing.
4. Demonstrate proficiency in basic Six Sigma concepts.

## Management and Organizational Leadership (MGTORG-BAS)

**Program Summary**

**Effective Catalog Term: Spring 2025 (645) through Present (CIP#1105202991)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**THE SPORTS MANAGEMENT SUBPLAN (SPMGT) IS NO LONGER ACCEPTING STUDENTS. LAST ADMISSION TERM IS FALL 2024 (0640).**
This degree program is designed with the active assistance of business and industrial leaders. This integrated program will give students a broad range of organizational and management skills necessary for a variety of supervisory positions. Students will learn how to become effective leaders and increase their earning potential.

**Estimated total program cost: $10,814.64**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**GENERAL EDUCATION REQUIREMENT** **Credits** 60
**A.A. Degree (or 60 credits with at least 15 General Education credits)**

60

**STATE MANDATED PREREQUISITES** **Credits**
**State Mandated Prerequisites**

There are no State Mandated Prerequisites at this time.

**ADMISSIONS COURSES** **Credits** 15
**Lower Division Support Courses (Select 15 credits)**

Students with an A.A. Degree, or unrelated A.S. degree must fulfill an additional 15 credits in business support courses at the lower division 1000 and 2000 level as outlined in the Admissions Checklist and below:

| | | |
|---|---|---|
| CGS 1100 [1] | Computer Applications | 3 |
| STA 2023 [2] | Elementary Statistics | 3 |
| Any lower division courses (1000 to 2000 level) with the ACG prefix[3] | | |
| Any lower division courses (1000 to 2000 level) with the BRC prefix | | |
| Any lower division courses (1000 to 2000 level) with the BUL prefix | | |
| Any lower division courses (1000 to 2000 level) with the ECO prefix | | |
| Any lower division courses (1000 to 2000 level) with the ENT prefix | | |
| Any lower division courses (1000 to 2000 level) with the FIN prefix | | |
| Any lower division courses (1000 to 2000 level) with the GEB prefix | | |
| Any lower division courses (1000 to 2000 level) with the HFT prefix | | |
| Any lower division courses (1000 to 2000 level) with the LDR prefix | | |
| Any lower division courses (1000 to 2000 level) with the MAN prefix[4] | | |
| Any lower division courses (1000 or 2000 level) with the MNA prefix | | |
| Any lower division courses (1000 to 2000 level) with the MAR prefix | | |
| Any lower division courses (1000 to 2000 level) with the REE prefix[5] | | |
| Any lower division courses (1000 to 2000 level) with the RMI prefix[6] | | |
| Any lower division courses (1000 to 2000 level) with the TAX prefix | | |
| QMB 2100* | | |

[1]CGS1100 is a recommended support course if not previously taken. MAN3504 and QMB3200 both use spreadsheet formulas.
[2]STA2023 is a recommended support course for the MTGORG-BAS program (Pre-requisite Math MAT1033 or MAT1100 required for STA2023).
[3]ACG2450 - If taken at SPC, the course content prepares student to take the QuickBooks Certification Exam
[4]MAN1500, MAN1590 and MAN2571 content associated with Industry Certification exams in Supply Chain Management offered at SPC
[5]Completion of REE1040 with 70% or better allows the student to sit for the State of Florida Real Estate Sales Agent License Exam

[6]Completion of RMI1210, RMI2113, RMI2213 and GEB2940 or RMI2940 will earn the Insurance Customer Service License (completion of an Associate's degree required)
[*]QMB 2100 is not currently offered at SPC, but is accepted as a transfer course.

**MAJOR CORE COURSES** **Credits** 27
**Major Requirements (Complete 27 credits)**

GRADE OF "C" OR BETTER REQUIRED FOR ALL COURSES

| | | |
|---|---|---|
| BUL 3320 | Law and Business | 3 |
| | | 3 |
| FIN 3400 [7] | Introduction to Financial Management | 3 |
| OR | | |
| FIN 3403 [7] | Financial Management | 3 |
| GEB 3213 | Business Communication for Professional Effectiveness | 3 |
| MAN 3240 | Applied Organizational Behavior | 3 |
| MAN 3303 | Management & Leadership Practices | 3 |
| MAN 3503 | Managerial Risk Analysis and Decision Making | 3 |
| MAN 4583 | Project Management | 3 |
| MAN 4584 | Process Improvement Methodologies | 3 |
| MAR 3802 | Marketing Management | 3 |

[7]FIN 3400 or FIN 3403 should be completed within the first 15 credit hours of the BAS coursework. If plan to pursue an MBA, FIN 3403 is recommended.

**MAJOR CORE COURSES** **Credits** 6
**REQUIRED FINAL COURSE - Last Semester for All Students**

| | | |
|---|---|---|
| MAN 4900 [8,9] | Strategic Capstone Project | 6 |

[8,9] 8) For students in Effective terms prior to 0520, MAN 4900 will be completed for 3 credits. For students in term 0520 or later, MAN 4900 will be offered at 6 credits starting Fall 2017. 9) All required major core courses must be completed (27 credits) before the Capstone course can be taken.

**SUBPLAN** **Credits** 12
**Select ONE subplan from below (Complete 12 credits)**
**SUBPLAN CORE COURSES**
**Subplan: Digital Marketing Management (DIGMGT) (Complete 12 credits)**

| | | |
|---|---|---|
| MAR 3334 | Marketing Promotions | 3 |
| MAR 4613 | Marketing Research | 3 |
| MAN 4054 | Managing for Innovation | 3 |
| MAR 4721 | Digital Marketing Strategy | 3 |

**SUBPLAN CORE COURSES**
**Subplan: Entrepreneurship (ENTRE) (Complete 9 credits)**

| | | |
|---|---|---|
| FIN 4470 | Entrepreneurial Finance | 3 |
| MAN 3802 | Principles of Entrepreneurship | 3 |
| MAN 4801 | Business Plan Strategies | 3 |

**SUBPLAN ELECTIVE COURSES**
**Subplan: Entrepreneurship (ENTRE) (Select 3 credits)**

| | | |
|---|---|---|
| MAR 4413 | Sales and Customer Relationship Management | 3 |
| MAR 4836 | Concept and Product Development | 3 |

**SUBPLAN CORE COURSES**
**Subplan: Management & Organizational Leadership General (MGT) (Complete 3 credits)**

| | | |
|---|---|---|
| MAN 3504 [1] | Operations Management | 3 |

**SUBPLAN ELECTIVE COURSES**
**Subplan: Management & Organizational Leadership General (MGT) (Select 9 credits)**

| | | |
|---|---|---|
| ETI 3647 | Supply Chain Management | 3 |
| MAN 3600 | International Business | 3 |
| MAN 3802 | Principles of Entrepreneurship | 3 |
| MAN 4102 | Management of Cultural Dynamics | 3 |
| MAN 4625 | Managing Global Human Resources | 3 |
| MAN 4741 | Innovation, Change and Agile Projects | 3 |
| MAN 4935 | Special Topics in Management Concepts | 3 |
| MAN 4940 | Internship | 3 |
| MAR 4413 | Sales and Customer Relationship Management | 3 |
| MAR 4836 | Concept and Product Development | 3 |
| PAD 4232 | Grant Administration & Resource Development | 3 |
| SPM 3154 | Principles of Sports Management | 3 |
| SPM 4104 | Sports Facility and Event Management | 3 |

**SUBPLAN CORE COURSES**
**Subplan: Project Management (PROJECT MA) (Complete 12 credits)**

| | | |
|---|---|---|
| MAN 4741 | Innovation, Change and Agile Projects | 3 |
| MAN 4881 | Authority Influence and Projects | 3 |
| MAN 4883 | Project Management Methodology in Specialization | 3 |
| MAN 4885 | Complex and Advanced Projects | 3 |
| Project Management Certification[11] | | |

[11]Completion of 18 credits in MAN3503, MAN4583, MAN4741, MAN4881, MAN4883 and MAN4885 allows up to 1500 hours of Project Management experience toward the CAPM® or PMP® certification exam requirements

**SUBPLAN CORE COURSES**
**Subplan: Sustainability and Green Management (SGM) (Select 12 credits)**

| | | |
|---|---|---|
| BUL 3583 | Legal Aspects of Sustainability | 3 |
| MAN 3784 | Sustainability in the Natural Environment | 3 |
| MAN 3786 | Sustainability in the Built Environment | 3 |

| | | |
|---|---|---|
| MAN 4781 | Sustainable Business Strategies | 3 |
| MAN 4787 | Energy & Environmental Techniques | 3 |

Total: 120

**Program Learning Outcomes**

1. Apply management skills that support individual staff and motivate teams and groups.
2. Demonstrate problem solving skills that improve organizational processes, enhance decision making, and maximize productivity.
3. Exhibit communication and interpersonal skills that enhance professional effectiveness and support a positive work environment.

## Management/Leadership (MGTLDR-CT)

**Program Summary**

**Effective Catalog Term: Fall 2023 (625) through Present (CIP#0552020103)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** The Management/Leadership courses identified in this Certificate program will apply towards the Business Administration AS degree. These courses will cover the areas of management and leadership skills and principles with an emphasis on developing the techniques of business leadership.

**Estimated total program cost: $2,388.98**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 12

| | | |
|---|---|---|
| LDR 2001 | Introduction to Leadership | 3 |
| MAN 2021 | Principles of Management | 3 |
| MAN 2340 | Supervisory Management | 3 |
| MAN 2582 | Introduction to Project Management | 3 |

Total: 12

**Program Learning Outcomes**

1. Manage business information using appropriate software.
2. Demonstrate effective business communication skills.

3. Demonstrate employability skills.

## Mechatronics (MECH-CT)

**Program Summary**

**Effective Catalog Term: Fall 2018 (550) through Present (CIP#0615000013)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This 30 credit hour certificate program offers a sequence of courses that provides comprehensive and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in Advanced Manufacturing. Students will be immersed into a hands-on program that will prepare for employment as industrial mechanics. The content includes but is not limited to instruction in maintenance techniques, computer aided drafting/design skills, technical communications, maintenance and operation of various industrial components, robotics and automation systems, pneumatics and hydraulics, and motors and controls.

**Estimated total program cost: $5,157.89**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 30
**Complete 30 credits**

| | | |
|---|---|---|
| EET 1084C | Introduction to Electronics | 3 |
| EET 1035C | AC/DC Circuits with Lab | 3 |
| ETI 1420 | Manufacturing Processes and Materials I | 3 |
| ETI 1701 | Industrial Safety | 3 |
| ETM 2315C | Fluid Power | 3 |
| ETM 1010C | Mechanical Measurement | 3 |
| ETS 1511C | Motors and Controls | 3 |
| ETS 1535C | Automation and Sensors | 3 |
| ETS 1542C | Programmable Logic Controllers (PLCs) | 3 |
| ETS 2604C | Robotics | 3 |

Total: 30

**Program Learning Outcomes**

1. Demonstrate an understanding of industrial processes and material properties.
2. Generate and interpret computer-aided drawings.

3. Demonstrate a fundamental understanding of electricity and electronics.
4. Demonstrate an understanding of industrial safety, health, and environmental requirements.
5. Demonstrate proficiency in using tools, instruments, and testing devices.
6. Demonstrate basic troubleshooting skills.
7. Demonstrate appropriate communication skills.
8. Demonstrate appropriate math skills.
9. Understand, operate, troubleshoot, and maintain pneumatic, hydraulic, and electromechanical components and/or systems.
10. Understand, operate, and maintain industrial automation systems.
11. Troubleshoot industrial automation systems.
12. Apply the principles of robotics to automated systems.
13. Create and operate human machine interfaces to control automated systems.

## Medical Coding and Revenue Management (MEDCD-CT)

**Program Summary**

**Effective Catalog Term: Fall 2021 (595) through Present (CIP#0351071404)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Medical Coding and Revenue Management (formerly known as the Medical Coder) Certificate is designed to provide a student with the skills necessary to transform medical diagnoses, procedures and injuries into designated numerical codes. There are many demands for accurately coded data from the medical records in hospitals, physician offices, as well as other healthcare institutions. Codes are provided on claim forms and on numerous medical record abstracts so third party payors and outside agencies may utilize this information. Coded data are also used internally by institutions for quality assurance activities, case-mix management and other administrative and research activities. A medical coder is an individual who analyzes medical records and assigns codes to classify diagnoses and procedures to support revenue cycle, assessment of clinical care, and medical research activity. A medical record coder must have a thorough understanding of the content of the medical record as well as clinical knowledge including extensive training in anatomy, physiology, pharmacology and clinical disease process. A coder must adhere to ethical principles relating to quality, truth, and accuracy in work performance and productivity. The suggested courses are in agreement with guidelines set forth by the American Health Information Management Association. These courses will apply toward the AS degree in Health Information Management.

**Estimated total program cost: $7,944.92**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSIONS COURSES** **Credits** 9
**Support Courses**

| | | |
|---|---|---|
| CGS 1100 | Computer Applications | 3 |
| HSC 1531 | Medical Terminology I | 2 |
| BSC 1084C * | Essentials of Human Anatomy & Physiology | 4 |

*BSC 2085/BSC 2085L and BSC 2086/BSC 2086L together can fulfill the BSC 1084C course requirement.

**MAJOR CORE COURSES** **Credits** 13
**1st Term in Program**

| | | |
|---|---|---|
| HIM 1101 | HIM Standards and Practice | 3 |
| HIM 1140 | Pharmacology and Pathophysiology for HIM Professionals | 3 |
| HIM 2223 | Introduction to Coding and Reimbursement Systems | 2 |
| HIM 2229 | Introduction to ICD-CM Coding | 3 |
| HIM 2652 | Electronic Health/Medical Record Systems | 2 |

**MAJOR CORE COURSES** **Credits** 11
**2nd Term in Program**

| | | |
|---|---|---|
| HIM 1800 | Professional Practice Experience I | 3 |
| HIM 2723 | ICD-PCS Coding | 3 |
| HIM 2253 | Basic CPT Coding | 3 |
| HIM 2012 | Health Law Concepts and Practices | 2 |

**MAJOR CORE COURSES** **Credits** 4
**3rd Term in Program**

| | | |
|---|---|---|
| HIM 2810 | Professional Practice Experience II | 3 |
| HIM 2960 | Credentialing Exam Review | 1 |

Total: 37

**Program Learning Outcomes**

1. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Clinical Classification Systems.
2. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Reimbursement Methodologies.
3. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Health Records and Data Content.
4. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Compliance.
5. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Information Technologies.
6. Students will develop knowledge and skills at the recall, application, and analysis levels in the content area of Confidentiality and Privacy.

## Medical Device Design and Manufacturing (MDDM-CT)

**Program Summary**

**Effective Catalog Term: Fall 2020 (580) through Present (CIP#0615040108)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should

visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This new college credit certificate for Medical Device Manufacturing and Design is designed to provide students with skills to work for a medical device manufacturer. The recommendation for a new CCC is based on work done in partnership with the SPC Biomedical Engineering Technology advisory board. One of Nation's largest concentrations of medical device companies is in Florida, which implies that many of these companies are constantly looking for new devices to add to the market. This CCC will provide manufacturers employees skilled in design, implementation, and risk analysis. The CCC could also benefit incumbent workers who want to expand their skills into device design and the certificate is financial aid eligible.

**Estimated total program cost: $4,832.43**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 22
**Medical Device Design and Manufacturing**

| | | |
|---|---|---|
| BME 1008C | Introduction to Biomedical Engineering Technology | 3 |
| EET 1084C | Introduction to Electronics | 3 |
| EET 1205C | Electronic Instrumentation | 1 |
| ETD 2364C | Introduction to SolidWorks | 3 |
| ETI 2041C | Medical Device Design and Prototyping | 3 |
| ETI 1622 | Intro to Lean Six Sigma | 3 |
| ETS 1412C | Managing Medical Technology | 3 |
| ETS 2424C | Electro-Mechanical Systems | 3 |

**MAJOR CORE COURSES** **Credits** 3
**Complete 3 credits**

| | | |
|---|---|---|
| | | 3 |
| ETD 2368C | Advanced Solidworks | 3 |
| OR | | |
| ETD 2369C | SolidWorks Applications | 3 |

**MAJOR CORE COURSES** **Credits** 3
**Complete 3 credits**

| | | |
|---|---|---|
| | | 3 |
| ETD 2371C | Rapid Protyping Model Design and Fabrication | 3 |

| | | |
|---|---|---|
| OR | | |
| ETD 2372C | Rapid Prototyping II-Manufacturing Methods | 3 |

Total: 28

**Program Learning Outcomes**

1. Apply written and verbal skills.
2. Apply mathematical skills.
3. Apply basic software skills related to biomedical engineering technology.
4. Understand basic biomedical principles.

## Medical Device Networking and Cybersecurity (MDNC-CT)

**Program Summary**

**Effective Catalog Term: Fall 2021 (595) through Present (CIP#0615040109)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the manufacturing career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the manufacturing career cluster. The content includes but is not limited to designing, manufacturing, evaluating, troubleshooting, repairing and testing various types of biomedical equipment. Additionally, students will learn to function in a hospital or industry environment through an internship at a local biomedical department. During the internship, students will be assigned routine duties as biomedical equipment technicians.

**Estimated total program cost: $4,411.38**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 23
**Complete 23 credits**

| | | |
|---|---|---|
| BME 1008C | Introduction to Biomedical Engineering Technology | 3 |
| EET 1084C | Introduction to Electronics | 3 |
| CET 1171C | Computer Repair Essentials | 3 |

| | | |
|---|---|---|
| CET 1172C | Computer Support Technician | 3 |
| CET 1175C | Medical Software and Troubleshooting | 2 |
| CNT 1000 | Network Fundamentals | 3 |
| ETS 2450C | Medical Device Networking | 3 |
| ETS 2470C | Medical Device Cybersecurity | 3 |

Total: 23

**Program Learning Outcomes**

1. Students will create methods for attacking and hardening medical devices.
2. Students will analyze medical device network connections.
3. Students will identify and describe recent networking and cybersecurity issues in the healthcare setting.
4. Student will discuss how to mitigate hardware and software risks for medical devices.

## Medical Equipment Repair (BMET-CT)

**Program Summary**

**Effective Catalog Term: Spring 2019 (555) through Present (CIP#0615040107)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Medical Equipment Repair Certificate is designed to allow students access to entry level positions in the field of medical device repair. Students will be prepared to work for Medical manufacturers, medical service providers, and consultants. This certificate focuses on the electronics and device knowledge necessary to perform basic troubleshooting and repair. Students will practice their skills in the biomedical engineering technology laboratory that includes several different types of medical devices.

**Estimated total program cost: $3,962.41**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 23

| | | |
|---|---|---|
| BME 1008C | Introduction to Biomedical Engineering Technology | 3 |
| EET 1084C | Introduction to Electronics | 3 |
| CET 1175C | Medical Software and Troubleshooting | 2 |
| BME 2930 | Special Topics in Biomedical Engineering | 1 |
| BSC 1084C | Essentials of Human Anatomy & Physiology | 4 |

| | | |
|---|---|---|
| ETS 1407 | Survey of Medical Technology | 3 |
| ETS 1412C | Managing Medical Technology | 3 |
| ETS 2424C | Electro-Mechanical Systems | 3 |
| EET 1205C | Electronic Instrumentation | 1 |

Total: 23

**Program Learning Outcomes**

1. Apply written and verbal skills.
2. Apply mathematical skills.
3. Apply basic software skills related to biomedical engineering technology.
4. Understand basic pneumatics, hydraulics, and mechanical principles.
5. Understand basic biomedical principles.
6. Understand basic electronics/computer principles.

## Music Industry/Recording Arts (MIRAS-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Summer 2026 (665) (CIP#1650091300)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Music Industry/Recording Arts (MIRA) program develops "real world" skills that artists need in order to thrive in a diverse and competitive music industry. The program offers a well-rounded, technology-based educational experience. The core curriculum prepares students to operate industry standard digital audio work station software (DAW), as well as hardware and equipment associated with studio recording and live sound production. Students may supplement their core experience with courses for musicians, composers, producers, DJs, live-sound engineers, broadcast audio engineers, and post-production engineers. The program emphasizes creative processes, technical training, business practices and entrepreneurial skills in a collaborative environment.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| | |
|---|---|
| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |

| | |
|---|---|
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 1

**Computer Competency (Select 1 credit)**

Completion of this requirement satisfies the General Education Computer Competency requirement for this AS degree.

| | | |
|---|---|---|
| MUM 1001 | Apple Macintosh Foundations | 1 |
| EME 2040 | Introduction to Educational Technology | 3 |
| CGS 1100 | Computer Applications | 3 |
| CGS 1070 | Basic Computer and Information Literacy | 1 |

**MAJOR CORE COURSES** **Credits** 33
**Complete 33 credits**

Minimum grade of C required in all courses.

| | | |
|---|---|---|
| MUM 0001 | Music Industry Recording Arts Orientation | 0 |
| MUT 1001 | Fundamentals Of Music | 3 |
| MUS 1360 | Digital Audio Workstation, Sound, & Notation Software Fundamentals | 3 |
| MUS 1621 | Acoustics and Psychoacoustics | 3 |
| MUM 2600 | Professional DAW Application | 3 |
| MUM 2601 | Studio Recording Techniques & Music Production | 3 |
| MUM 2601L | Studio Recording Techniques & Music Production Lab | 1 |
| MUM 2609 | Critical Listening: Analysis of Contemporary Production Techniques | 3 |
| MUM 1662 | Live Sound Reinforcement Techniques | 3 |
| MUM 1942 | Internship: Sound Engineering I | 1 |
| MUM 2602 | Collaborative Music Production and Recording Studio Techniques | 3 |
| MUM 2602L | Collaborative Music Production and Recording Studio Techniques Lab | 1 |
| MUM 2313 | Legal Issues in Music | 3 |
| | | 3 |
| MUM 2707 | Practical Music Business | 3 |
| OR | | |
| GEB 1011 | Introduction to Business | 3 |

**MAJOR ELECTIVE COURSES** **Credits** 12
**Complete 12 credits**

Complete 12 credits using DIG 2030, CNT 1000, TPA 2200C, and/or any course with a prefix of MUC, MUN, MUM, MUS, MUT, MVB, MVJ, MVK, MVP, MVS, MVV, MVW.

Total: 64

**Program Learning Outcomes**

1. Music Technology: Students will complete collaborative and individual projects that demonstrate proficiency and creativity in the application of practical recording and production techniques, organizational and technical skills, utilizing current Digital Audio Workstation (DAW) software, recording studio equipment and infrastructure.
2. Acoustics: Students will analyze, design, and optimize a given space for use as a recording studio, with room acoustics to support professional results.
3. Legal: Students will identify and analyze legal issues, including intellectual property, business entities, contracts and specific provisions in record agreements, performance/touring, royalty payments, licensing, publishing, and negotiation strategies, in real-world music industry situations from multiple perspectives, including musician, studio owner, engineer, record label executive, and producer.
4. Business: Students will prepare a music business Action Plan that will include promotion, pricing, sales opportunity, marketing, branding, business networking, and the requirements of the consumer.

## Network Administration (LINXSA-CT)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Present (CIP#0511100122)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate program is designed to produce certified network administrators and engineers. Students will learn skills and perform tasks required to administer Microsoft and Linux networked servers. These skills include the design, implementation, networking, managing, maintaining, providing services, providing applications, and security of a server network environment. Upon completion of the specified courses, students will be prepared to take industry certification, and upon successful completion of all coursework, students will be awarded a college certificate for this program. These courses will apply toward the AS degree in Networking Technologies. Some courses may require a prerequisite that must be met by the student.

**Estimated total program cost: $3,981.98**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 21
**Complete 21 credits - Grade of "C" or better required**

| | | |
|---|---|---|
| CET 1171C | Computer Repair Essentials | 3 |
| CET 1172C | Computer Support Technician | 3 |
| COP 1000 | Introduction to Computer Programming | 3 |
| CNT 1000 | Network Fundamentals | 3 |
| CTS 1328 | Windows Server Hybrid Administration | 3 |
| CTS 2106 | Fundamentals of the Linux Operating System | 3 |
| CTS 2321 | Linux System Administration | 3 |

Total: 21

**Program Learning Outcomes**

1. Understand and use essential tools.
2. Operate running systems.
3. Configure local storage.
4. Create and configure file systems.
5. Deploy, configure, and maintain systems.
6. Manage users and groups.
7. Manage security.

## Networking Technologies (COMPNET-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1511100112)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This program is designed for students to build, maintain, and manage an integrated network, utilizing the latest networking technologies, to implement network security measures, and to develop analytical and troubleshooting skills to resolve common network issues locally or in the cloud. This program prepares students to sit for the CompTIA A+, CompTIA Network+, CompTIA Linux+, CompTIA Cloud Essentials+, and Cisco Certified Network Associate (CCNA) industry certifications depending upon which program pathway is selected.

**Estimated total program cost: $9,880.75**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |

| | | |
|---|---|---|
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 3
**Complete 3 credits**

| | | |
|---|---|---|
| CGS 1309 | Computer and Information Technology Concepts | 3 |

Completion of CGS 1309 will also satisfy the Computer Competency requirement.

**MAJOR CORE COURSES** **Credits** 39
**Complete 39 credits**

| | | |
|---|---|---|
| CET 1171C | Computer Repair Essentials | 3 |
| CET 1172C | Computer Support Technician | 3 |
| CET 1600 | Introduction to Networks | 3 |
| CET 1610 | Switching, Routing, and Wireless Essentials | 3 |
| CET 2615 | Enterprise Networking, Security, and Automation | 3 |
| CET 2620 | Enterprise Core Technologies | 3 |
| CET 2685 | Implementing Cisco Network Security | 3 |
| CNT 1000 | Network Fundamentals | 3 |
| COP 1000 ** | Introduction to Computer Programming | 3 |
| CTS 2106 | Fundamentals of the Linux Operating System | 3 |
| CTS 2321 | Linux System Administration | 3 |
| CTS 1328 | Windows Server Hybrid Administration | 3 |
| CNT 2940 | Computer Networking Internship | 3 |

**Students should be comfortable with basic algebra and problem-solving tasks. It is recommended that students complete College Algebra (MAC 1105) before enrolling in COP 1000.

Total: 60

**Program Learning Outcomes**

1. Design and manage a network to include installing, configuring, securing and troubleshooting network devices, protocols and services.
2. Identify network security threats and implement strategies to mitigate those threats within a diverse network environment.

3. Summarize and explain a 'real-world' experience with a major-related, supervised and evaluated practical work experience internship.

## Nursing (NURS-BS)

**Program Summary**

**Effective Catalog Term: Fall 2025 (655) through Summer 2026 (665) (CIP#1105138012)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The RN to BSN Program at St. Petersburg College affords registered nurses the opportunity to obtain a Bachelor of Science degree in Nursing delivered in an online format. The program gives nurses a solid foundation for advancing their career or preparing for graduate nursing study. The program focuses on evidence-based practice, health promotion, cultural humility, technology, and leadership to meet the health needs of diverse populations.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**STATE MANDATED PREREQUISITES** **Credits** 15
**Complete 15 credits. All courses must be completed with a grade of "C" or higher.**

| | | |
|---|---|---|
| | | 4 |
| BSC 2085 * | Human Anatomy & Physiology I | 3 |
| AND | | |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| | | 4 |
| BSC 2086 ** | Human Anatomy & Physiology II | 3 |
| AND | | |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| | | 4 |
| MCB 2010 *** | Microbiology | 3 |
| AND | | |
| MCB 2010L | Microbiology Laboratory | 1 |
| STA 2023 **** | Elementary Statistics | 3 |

*Acceptable substitutes: BSCXO93C or BSC XO93/XO93L
**Acceptable substitutes: BSCX094C or BSC XO94/XO94L

***Acceptable substitutes: MCBX013C, MCBX013/L, MCB X000/X000L, OR MCB X004/X004L
****Acceptable substitutes: STAX014, STAX122, or STAX022

**AA GENERAL EDUCATION REQUIREMENTS** **Credits** 27
**Complete 27 credits.**

**COLLEGE LEVEL CREDITS** **Credits** 39
**Complete 39 credits.**

**MAJOR CORE COURSES** **Credits** 32
**Complete 32 credits.**

| | | |
|---|---|---|
| NUR 3125 | Pathophysiology | 3 |
| NUR 3655 | Nursing in a Multicultural Society | 3 |
| NUR 3684 | Health Promotion in Nursing | 3 |
| NUR 3805 | Professional Roles and Dimensions of Nursing Practice | 3 |
| NUR 3874 | Informatics and Clinical Reasoning | 3 |
| NUR 3931 | Issues and Trends in Nursing | 3 |
| NUR 4169 | Evidence-Based Research Utilization | 4 |
| NUR 4667 | Globalization of Nursing Practice | 4 |
| NUR 4827 | Leadership in Nursing | 3 |
| NUR 4950 | Capstone | 3 |

**MAJOR ELECTIVE COURSES** **Credits** 8
**Complete 8 credits**

| | | |
|---|---|---|
| NSP 3276 | ECG Interpretation for Health Care Professionals | 2 |
| NSP 3685 | End-of-Life Care | 2 |
| NUR 3066 | Health Assessment and Physical Appraisal | 3 |
| NUR 3826 | Legal & Ethical Aspects of Nursing | 3 |

Any Upper Division Courses completed at SPC or another institution may be used to satisfy the 8 credit elective requirement.

Total: 121

Program Learning Outcomes

1. Apply evidence-based practice via provision of safe nursing care within a global, evolving health care system.
2. Facilitate health equity via care delivery focused on health promotion, risk reduction, disease prevention, and illness management.
3. Practice cultural humility when delivering nursing care to individuals and groups across the lifespan.
4. Use data and technology when collaborating with the interprofessional health care team to improve care quality and favorable patient outcomes.
5. Demonstrate leadership and advocacy through professional, legal, ethical, and fiscal accountability.

## Nursing (R.N.) (NURSE-AS)

**Program Summary**

**Effective Catalog Term: Spring 2023 (615) through Present (CIP#1351380100)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

Fully transferable to Bachelor's Degree at SPC or to any state university in Florida. Program begins in August and January with a traditional, LPN-RN and evening/weekend track.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 6
**AS Gen Ed**

*AS GENERAL EDUCATION REQUIREMENTS - Communications - Composition- Core*

Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree.

*AS GENERAL EDUCATION REQUIREMENTS - Humanities and Fine Arts-Core*

Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Computer/Information Literacy Competency*

Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required.

*AS GENERAL EDUCATION REQUIREMENTS - Enhanced World View*

Complete at least one 3-credit course from the approved General Education Enhanced Worldview course list. This requirement is intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Civic Literacy*

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 3
**Mathematics (Select 3 credits)**

Completion of this requirement satisfies the General Education Mathematics requirement for this AS degree.

| | | |
|---|---|---|
| STA 2023 | Elementary Statistics | 3 |
| STA 2023H | Honors Elementary Statistics | 3 |

**SUPPORT COURSES** **Credits** 3
**Ethics (Select 3 credits)**

Completion of this requirement satisfies the General Education Ethics requirement for this AS degree. Students are strongly advised to select the Healthcare Ethics topic when they register for PHI 1600.

| | | |
|---|---|---|
| PHI 1600 | Studies in Applied Ethics | 3 |
| PHI 1600H | Honors Studies in Applied Ethics | 3 |

**SUPPORT COURSES** **Credits** 3
**Social/Behavioral Science (Select 3 credits)**

Completion of this requirement satisfies the General Education Social/Behavioral Science requirement for this AS degree.

| | | |
|---|---|---|
| PSY 1012 | General Psychology | 3 |
| PSY 1012H | Honors General Psychology | 3 |

**SUPPORT COURSES** **Credits** 3
**Social/Behavioral Science (Select 3 credits)**

Completion of this requirement satisfies the General Education Social/Behavioral Science and Civic Literacy course requirement for this AS degree.

| | | |
|---|---|---|
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 12
**Other (Complete 12 credits)**

| | | |
|---|---|---|
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010L | Microbiology Laboratory | 1 |

**SUBPLAN** **Credits** 42
**Select ONE subplan from below (Complete 42 credits)**

Please note that the LPN TRANSITIONAL SUBPLAN is intended only for students who have a current LPN license.

**GENERAL NURSING SUBPLAN**
**1st Term in Program (Complete 10 credits)**

| | | |
|---|---|---|
| NUR 1110C | Health Concepts I | 6 |
| NUR 1111 | Professional Nursing I | 2 |
| NUR 1141 | Pharmacology I | 2 |

**GENERAL NURSING SUBPLAN**
**2nd Term in Program (Complete 11 credits)**

| | | |
|---|---|---|
| NUR 2034C | Health Concepts II | 9 |

| | | |
|---|---|---|
| NUR 1112 | Professional Nursing II | 1 |
| NUR 1142 | Pharmacology II | 1 |

**GENERAL NURSING SUBPLAN**
**3rd Term in Program (Complete 11 credits)**

| | | |
|---|---|---|
| NUR 2035C | Health Concepts III | 9 |
| NUR 1113 | Professional Nursing III | 1 |
| NUR 1148 | Pharmacology III | 1 |

**GENERAL NURSING SUBPLAN**
**4th Term in Program (Complete 10 credits)**

| | | |
|---|---|---|
| NUR 2205C | Health Concepts IV | 6 |
| NUR 1149 | Pharmacology IV | 1 |
| NUR 2940C | Practicum | 3 |

- - - - - - - - - - - - - - - Credits

**LPN TRANSITIONAL SUBPLAN**
**1st Term in Program (Complete 21 credits)**

| | | |
|---|---|---|
| NUR 1003C | LPN Transition Health Concepts | 8 |
| NUR 1083 | LPN Transition Professional Nursing | 1 |
| NUR 1147 | LPN Transition Pharmacology | 2 |
| Gold Standard articulated credit | | 10 |

Articulated credits (LPN license) will satisfy the following coursework: NUR 1110C, NUR 1141, NUR 1111.

**LPN TRANSITIONAL SUBPLAN**
**2nd Term in Program (Complete 11 credits)**

| | | |
|---|---|---|
| NUR 2035C | Health Concepts III | 9 |
| NUR 1148 | Pharmacology III | 1 |
| NUR 1113 | Professional Nursing III | 1 |

**LPN TRANSITIONAL SUBPLAN**
**3rd Term in Program (Complete 10 credits)**

| | | |
|---|---|---|
| NUR 2205C | Health Concepts IV | 6 |
| NUR 1149 | Pharmacology IV | 1 |
| NUR 2940C | Practicum | 3 |

Total: 72

**Program Learning Outcomes**

1. Apply clinical reasoning consistent with the novice registered nurse within contemporary health care environments.
2. Demonstrate evidence-based knowledge to provide safe and quality care.
3. Utilize communication and collaboration strategies with clients, their support systems, and members of the multidisciplinary health care team.
4. Assimilate the role of a novice registered nurse through exhibiting the core values of the profession of nursing.

## Nursing (R.N.) - LPN Transitional Program (LPN-NURSE-AS)

**Summary**

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 6
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam).This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 3
**Mathematics (Select 3 credits)**

Completion of this requirement satisfies the General Education Mathematics Core requirement for this AS degree.

| | | |
|---|---|---|
| STA 2023 | Elementary Statistics | 3 |
| STA 2023H | Honors Elementary Statistics | 3 |

**SUPPORT COURSES** **Credits** 3
**Ethics (Select 3 credits)**

Completion of this requirement satisfies the General Education Ethics requirement for this AS degree. Students are strongly advised to select the Healthcare Ethics topic when they register for PHI 1600.

| | | |
|---|---|---|
| PHI 1600 | Studies in Applied Ethics | 3 |
| PHI 1600H | Honors Studies in Applied Ethics | 3 |

**SUPPORT COURSES** **Credits** 3
**Social/Behavioral Science (Select 3 credits)**

Completion of this requirement satisfies the General Education Social/Behavioral Science requirement for this AS degree.

| | | |
|---|---|---|
| PSY 1012 | General Psychology | 3 |
| PSY 1012H | Honors General Psychology | 3 |

**SUPPORT COURSES** **Credits** 3
**Social/Behavioral Science (Select 3 credits)**

Completion of this requirement satisfies the General Education Social/Behavioral Science Core requirement and the Civic Literacy course requirement for this AS degree. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES: Anatomy & Physiology/Microbiology** **Credits** 12
**Complete 12 credits**

| | | |
|---|---|---|
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010L | Microbiology Laboratory | 1 |

**SUPPORT COURSES** **Credits** 0
**Computer and Information Literacy Competency (Complete 1 course)**

Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. Completion of this requirement satisfies the General Education Computer Competency requirement for this AS degree.

| | | |
|---|---|---|
| CGS 1070 | Basic Computer and Information Literacy | 1 |
| CGS 1100 | Computer Applications | 3 |
| CGS 1309 | Computer and Information Technology Concepts | 3 |
| EME 2040 | Introduction to Educational Technology | 3 |

**MAJOR CORE COURSES** **Credits** 21
**1st Term in Program (Complete 20 credits)**

| | | |
|---|---|---|
| NUR 1003C | LPN Transition Health Concepts | 8 |
| NUR 1083 | LPN Transition Professional Nursing | 1 |
| NUR 1147 | LPN Transition Pharmacology | 2 |
| Gold Standard articulated credit | | 10 |

**MAJOR CORE COURSES** **Credits** 11
**2nd Term in Program (Complete 10 credits)**

| | | |
|---|---|---|
| NUR 2035C | Health Concepts III | 9 |
| NUR 1148 | Pharmacology III | 1 |
| NUR 1113 | Professional Nursing III | 1 |

**MAJOR CORE COURSES** **Credits** 10

**3rd Term in Program (Complete 12 credits)**

| | | |
|---|---|---|
| NUR 2205C * | Health Concepts IV | 6 |
| NUR 1149 | Pharmacology IV | 1 |
| NUR 2940C | Practicum | 3 |

Total: 72

## Paralegal Studies (LEGAL-CT)

**Program Summary**

**Effective Catalog Term: Fall 2020 (580) through Present (CIP#5552203020)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Paralegal studies courses identified in this certificate program will meet the educational requirement for the Certified Legal Assisting Examination administered nationwide by the National Association of Legal Assistants.

**Estimated total program cost: $4,405.24**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 24

| | | |
|---|---|---|
| PLA 1003 | Introduction to Paralegalism | 3 |
| PLA 1104 | Legal Research and Writing | 3 |
| PLA 1361 | Techniques of Interview and Investigation | 3 |
| PLA 1763 | Law Office Practice and Technology | 3 |
| PLA 2201 | Civil Law and Procedure | 3 |
| PLA 2114 | Advanced Legal Research and Writing | 3 |
| PLA 3703 | Seminar in Professional Responsibility | 3 |
| PLA 4944 | Paralegal Certificate Capstone | 3 |

Total: 24

**Program Learning Outcomes**

1. Acquire and demonstrate proficiency with legal terminology and communications skills involving the rules of grammar, punctuation, and sentence structure.
2. Acquire and implement advanced skills in the areas of legal writing and critical and analytical thinking needed to effectively problem solve.

3. Demonstrate advanced knowledge of the laws, rules, and responsibilities in regards to the delivery of professional and ethical legal services in a culturally and locally appropriate manner.
4. Execute the technical skills, including legal research and writing, needed to succeed in the legal profession.
5. Demonstrate thorough knowledge, understanding, and competencies in the American Legal System; the federal court systems; contracts; commercial transactions; business entities; criminal law and procedure; estate planning and probate; real estate and property law; torts; ethics; and civil litigation.

## Paralegal Studies (LEGAL-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1722030200)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

(Transferable to Paralegal Studies BAS degree at SPC) The goal of this program is to train students for entry-level employment as legal assistants (paralegals) in law firms, governmental entities and corporate legal departments. Paralegals work under the supervision of attorneys to provide non-clerical professional support in the delivery of legal services to clients and the community. Paralegals are not licensed to practice law. Graduates are prepared to assist in interview and investigation, legal research, discovery and litigation support and design and development of new procedures. Courses emphasize the following practice areas: Civil Litigation; Criminal Litigation; Family Law; Wills, Trusts, and Estates; Business Organizations; and Real Estate Transactions. Legal Specialty courses are offered only at night and not every course is offered every semester. Program is directed from the Clearwater campus with a majority of the classes held at the Clearwater Campus. The SPC Paralegal Studies Program is approved by the American Bar Association. Students entering the program are encouraged to attend a special orientation held each session for new and interested students. Computer skills are essential for employability and should be acquired early in the program.

Many courses in this program are now offered in an online format in addition to traditional face-to-face classroom instruction. Please note that The American Bar Association (ABA) requires students to take a minimum of nine (9) credits of legal specialty courses through synchronous instruction in order to successfully complete the program. (Synchronous means that we share the time together via Zoom though we are not in the same physical space.) Most of our online classes have this Zoom component which you may see referred to as Live Online. Synchronous instruction then may include traditional in-person class time or mandatory remote attendance at specified class times via Zoom. These virtual classes require the same attention as a face-to-face classes along with a reliable internet connection.

**Estimated total program cost: $10,910.78**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 21
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Communications - Literature* | 3 |
| Complete 3 credits from the approved General Education Composition II/Literature coursework . Minimum grade of "C" required. This requirement must be completed within the first 36 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | |
| AMH 2010 History of the United States I | 3 |
| AMH 2010H Honors History of the United States I | 3 |
| AMH 2020 History of the United States II | 3 |

| | | |
|---|---|---|
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 3
**Financial Accounting (Complete 3 credits)**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |

**MAJOR CORE COURSES** **Credits** 40
**Complete 40 credits**

| | | |
|---|---|---|
| BUL 2241 | Business Law I | 3 |
| PLA 1003 | Introduction to Paralegalism | 3 |
| PLA 1104 | Legal Research and Writing | 3 |
| PLA 1361 | Techniques of Interview and Investigation | 3 |
| PLA 1730 | Online Legal Research | 1 |
| PLA 1763 | Law Office Practice and Technology | 3 |
| PLA 2114 | Advanced Legal Research and Writing | 3 |
| PLA 2201 | Civil Law and Procedure | 3 |
| PLA 2304 | Criminal Law and Procedure | 3 |
| PLA 2433 | Business Organizations | 3 |
| PLA 2600 | Wills, Estates, Trusts, & Probate Administration | 3 |
| PLA 2610 | Real Estate Transactions | 3 |
| PLA 2800 | Family Law | 3 |
| PLA 2940 | Legal Assistant Seminar and Work Experience | 3 |

Total: 64

**Program Learning Outcomes**

1. The student will demonstrate the ability to analyze a problem; identify and evaluate alternative solutions; formulate logical solutions to problems; construct logical arguments in support of specific positions; evaluate solutions and arguments; and determine which areas of law are relevant to a particular situation. (Critical Thinking)
2. The student will demonstrate the ability to organize and manage information effectively and the ability to manage time efficiently. (Organizational)
3. The student will demonstrate the ability to interact effectively, in person, by telephone and in written correspondence with lawyers, clients, witnesses, court personnel, co-workers, and other business professionals. (Communication)
4. The student will demonstrate the ability to competently use the tools of research available in a standard law library, "cite check" the legal sources, run a computer assisted legal research program, and incorporate the results of the research into a proper memorandum format. (Legal Research)
5. The student will demonstrate the ability to write various types of documents, correspondence, pleadings, memoranda, and briefs. (Legal Writing)
6. The student will demonstrate the ability to deal with a basic word processing program, a spreadsheet program, and a database as well as presentation software. (Computer)
7. The student will demonstrate basic interview and investigating skills including identifying and locating witnesses, potential parties to a suit and experts; preparing for and conducting effective interviews, locating information and obtaining records and using the Internet to obtain relevant and reliable information pertaining to a given situation. (Interview and Investigation)
8. The student will demonstrate knowledge of the types of work paralegals/legal assistants perform, the nature of supervision that must be present, the manner in which their conduct is directed by the ethical guidelines of the American Bar Association, the Florida Bar and the ethical guidelines for paralegal/legal assistants. (Professionalism and Ethics)

9. The student will demonstrate knowledge of financial and human resources principles and apply these to solving organizational and management issues in the office setting. (Law Office Management)

## Paralegal Studies (LEGAL-BAS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1102203022)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Paralegal Studies BAS program is designed to train students for careers as paralegals in law firms, governmental entities and corporate legal departments. Paralegals work under the supervision of attorneys to provide non-clerical professional support in the delivery of legal services to clients and the community. Paralegals are not licensed to practice law.

Many courses in this program are now offered in an online format in addition to traditional face-to-face classroom instruction. Please note that The American Bar Association (ABA) requires students to take a minimum of nine (9) credits of legal specialty courses through synchronous instruction in order to successfully complete the program. (Synchronous means that we share the time together via Zoom though we are not in the same physical space.) Most of our online classes have this Zoom component which you may see referred to as Live Online. Synchronous instruction then may include traditional in-person class time or mandatory remote attendance at specified class times via Zoom. These virtual classes require the same attention as a face-to-face classes along with a reliable internet connection.

**Estimated total program cost: $11,467.08**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSIONS COURSES** **Credits** 60
**AA Degree or AS Degree**

60

**ADMISSIONS COURSES** **Credits** 15
**ADDITIONAL GENERAL EDUCATION COURSES - Grade of "C" or higher**

For A.S. degree holders, an additional 15-21 general education credits are required to complete the thirty-six (36) credit hour general education requirement of St. Petersburg College.

Enhanced World View Course

| | |
|---|---|
| A. COMMUNICATIONS | 9 |
| B. HUMANITIES/FINE ARTS | 6 |
| C. MATHEMATICS | 6 |
| D. NATURAL & PHYSICAL SCIENCES | 6 |
| E. SOCIAL AND BEHAVIORAL SCIENCES | 6 |
| F. ETHICS | 3 |
| G. COMPUTER/INFORMATION LITERACY COMPETENCY | |

**STATE MANDATED PREREQUISITES** **Credits**
**State Mandated Prerequisites**

There are no State Mandated Prerequisites at this time.

**MAJOR CORE COURSES** **Credits** 18
**Grade of "C" or higher required for all upper-division courses**

| | | |
|---|---|---|
| PLA 3885 | United States Constitutional Law | 3 |
| PLA 4116 | Legal Writing Seminar | 3 |
| PLA 3723 | Logic and the Law | 3 |
| PLA 4830 | Comparative Legal Systems | 3 |
| PLA 3703 | Seminar in Professional Responsibility | 3 |
| PLA 3734 | Computers and the Law Office | 3 |

**MAJOR CORE COURSES** **Credits** 3
**REQUIRED FINAL COURSE - Last Semester for All Students**

| | | |
|---|---|---|
| PLA 4941 | Paralegal Studies Capstone | 3 |

**MAJOR ELECTIVE COURSES** **Credits** 24
**Complete 24 credits - Grade of "C" or higher required for all upper-division courses**

Complete a total of 24 credits of upper division PLA coursework. Within the 24 credits students may complete up to 12 credits of upper division BUL, PAD and/or PUP coursework as part of this requirement.

**MAJOR ELECTIVE COURSES**
**PLA, BUL, PAD, PUP Elective Courses (Complete 12 credits)**

BUL 3XXX Any 3000 level BUL prefix course BUL 4XXX Any 4000 level BUL prefix course PAD 3XXX Any 3000 level PAD prefix course PAD 4XXX Any 4000 level PAD prefix course PLA 3XXX Any 3000 level PLA prefix course PLA 4XXX Any 4000 level PLA prefix course PUP 3XXX Any 3000 level PUP prefix course PUP 4XXX Any 4000 level PUP prefix course

PUP 4949 is excluded from elective options

**MAJOR ELECTIVE COURSES**
**PLA Elective Courses (Complete a minimum of 12 credits)**

PLA 3XXX Any 3000 level PLA prefix course PLA 4XXX Any 4000 level PLA prefix course

Total: 120

**Program Learning Outcomes**

1. Acquire and implement advanced critical thinking and analytical skills needed to effectively problem solve.
2. Demonstrate the appropriate use of communication and organizational skills within and outside the legal system.
3. Execute the technical skills, including legal research and writing, needed to succeed in the legal profession.
4. Exhibit the ability to deliver legal services in a culturally appropriate, professional, and ethical manner.
5. Demonstrate an advanced knowledge and understanding of the American legal system.

## Paramedic (PMED-CT)

**Program Summary**

**Effective Catalog Term: Spring 2023 (615) through Present (CIP#0351090405)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**For paramedic program information, please contact HEC_advising@spcollege.edu**

This certificate is designed to produce paramedics, whose job description involves advanced life support, to deliver the pre-hospital, life support care and transportation necessary for victims of accident and emergency illness. Successful completion of the prescribed courses and the awarding of a certificate of completion means eligibility to take the State of Florida examination for certification or national registry exam for certification as a Paramedic. The goal of SPC is to assist students in preparing for licensure in the state of Florida. Students interested in licensure outside the state of Florida should contact the individual state for any unique or individual requirements. In addition, students should contact their professional association for additional information on out of state licensure.

**Estimated total program cost: $7,644.03**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 42

Grade of "C" or better required in ALL courses.

| | | |
|---|---|---|
| EMS 2601 | Paramedic Theory I | 10 |
| EMS 2601L | Paramedic Laboratory I | 4 |
| EMS 2602 | Paramedic Theory II | 10 |
| EMS 2602L | Paramedic Laboratory II | 4 |
| EMS 2664 | Paramedic Clinical I | 3 |

| | | |
|---|---|---|
| EMS 2665 | Paramedic Clinical II | 4 |
| EMS 2659C | Paramedic Field Internship | 7 |

Total: 42

**Program Learning Outcomes**

1. To educate, train and guide caring, competent, compassionate and critical thinking prehospital clinicians.

## Physical Therapist Assistant (PTA-AS)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Summer 2024 (635) (CIP#1351080601)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

Transferable to a Bachelor's degree in Health Services Administration at SPC. This program begins every August. All Physical Therapist Assistant courses (PHT course prefix) are offered only at the Health Education Center at 7200 66th St. N., Pinellas Park. Due to the time-intensive nature of the PTA program courses, it is highly recommended that students complete as many of the general education and support courses as possible prior to entry into the program. Candidates will also complete the Health Programs Application. It is recommended that all students applying to the PTA program see a counselor or advisor at the Health Education Center.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 12
**AS Gen Ed**

| | |
|---|---|
| *AS GENERAL EDUCATION REQUIREMENTS - Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | |
| *AS GENERAL EDUCATION REQUIREMENTS - Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | |
| *AS GENERAL EDUCATION REQUIREMENTS - Humanities and Fine Arts-Core* | 3 |

Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. Completing ARH 1000, HUM 1020 or IDS 1106 will also satisfy the Enhanced World View Requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Mathematics-Core* 3

Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Enhanced World View*

Complete at least one 3-credit course from the approved General Education Enhanced Worldview course list. This requirement is intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Civic Literacy*

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 8
**Anatomy and Physiology (Complete 8 credits)**

Completion of this requirement satisfies the General Education Natural Science Core requirement for this AS degree.

| | | |
|---|---|---|
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |

**SUPPORT COURSES** **Credits** 0
**Computer and Information Literacy Requirement (Complete 1 course)**

Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS1070T) OR by successful completion of one of the approved Computer/Information Literacy Competency courses. No minimum credits required. Completion of this requirement satisfies the General Education Computer Competency requirement for this AS degree.

| | | |
|---|---|---|
| CGS 1070 | Basic Computer and Information Literacy | 1 |
| CGS 1100 | Computer Applications | 3 |
| CGS 1309 | Computer and Information Technology Concepts | 3 |
| EME 2040 | Introduction to Educational Technology | 3 |
| MUM 1001 | Apple Macintosh Foundations | 1 |

**SUPPORT COURSES** **Credits** 3
**Ethics (Complete 3 credits)**

| | | |
|---|---|---|
| PHI 1600 | Studies in Applied Ethics | 3 |

**SUPPORT COURSES** **Credits** 5
**Other - Complete 5 credits**

| | | |
|---|---|---|
| DEP 2004 | Lifespan Psychology | 3 |
| HSC 1531 | Medical Terminology I | 2 |

**SUPPORT COURSES** **Credits** 3
**Psychology (Select 3 credits)**

Completion of this requirement satisfies the General Education Social and Behavioral Science requirement for the AS degree.

| | | |
|---|---|---|
| PSY 1012 | General Psychology | 3 |
| PSY 1012H | Honors General Psychology | 3 |

**MAJOR CORE COURSES** **Credits** 11
**1st Term in Program**

| | | |
|---|---|---|
| PHT 1121 | Functional Anatomy and Kinesiology | 3 |
| PHT 1121L | Functional Anatomy and Kinesiology Laboratory | 2 |
| PHT 1200 | Introduction to Basic Patient Care | 3 |
| PHT 1200L | Basic Patient Care Laboratory | 3 |

**MAJOR CORE COURSES** **Credits** 11
**2nd Term in Program**

| | | |
|---|---|---|
| PHT 1217 | Physical Therapy Principles and Procedures | 3 |
| PHT 1217L | Physical Therapy Principles and Procedures Laboratory | 3 |
| PHT 2252 | Orthopedic Disabilities and Treatment | 3 |
| PHT 2252L | Orthopedic Disabilities and Treatment Laboratory | 2 |

**MAJOR CORE COURSES** **Credits** 4
**3rd Term in Program**

| | | |
|---|---|---|
| PHT 1801L | Physical Therapy Clinical Practice I | 4 |

**MAJOR CORE COURSES** **Credits** 7
**4th Term in Program**

| | | |
|---|---|---|
| PHT 2162 | Neurological Disabilities and Treatment | 3 |
| PHT 2220 | Therapeutic Exercise in Physical Therapy | 2 |
| PHT 2220L | Therapeutic Exercise in Physical Therapy Lab | 2 |

**MAJOR CORE COURSES** **Credits** 10
**5th Term in Program**

| | | |
|---|---|---|
| PHT 2810L | Physical Therapy Clinical Practice II | 4 |
| PHT 2931 | Trends in Physical Therapy | 2 |
| PHT 2820L | Physical Therapy Clinical Practice III | 4 |

Total: 74

**Program Learning Outcomes**

1. The student/graduate will provide physical therapy interventions under the direction and supervision of a physical therapist in a competent, safe, and effective manner, maintaining compliance with federal and state licensing requirements and facility policies and procedures. (Fl State Framework 13.16 and 15.0)
2. The student/graduate will determine each patient's response to the intervention through accurate, reproducible, safe, and valid data collection methods using accepted tests and standard procedures. (FL State Framework 16.03)

3. The student will demonstrate effective critical thinking and clinical decision-making skills to determine the patient's appropriateness for and response to interventions and to modify, progress or stop interventions as indicated to achieve goals as established in the plan of care. (FL State Framework 14.11)
4. The student will communicate effectively with all stakeholders, including patients/clients, family members, caregivers, the physical therapist, and other health care providers utilizing effective verbal and non-verbal communication strategies for the level of the individual. (FL State Framework 13.13)
5. The student will complete accurate, legible documentation that follows guidelines and specific documentation formats required by state practice acts, the practice setting, and other regulatory agencies. (FL State Framework 16.09)
6. The student will appropriately utilize information from health care literature to guide clinical decisions related to the provision of interventions as directed by the PT. (FL State Framework 13.21 and 13.22)
7. The student will participate in the APTA and related professional organizations to promote and maintain the future of the Physical Therapy profession. (FL State Framework 13.23)
8. The student will identify career development and lifelong learning opportunities, including the role of the physical therapist assistant in the clinical education of physical therapist assistant students. (FL State Framework 13.24)

PreKindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (PKPED-BS)

**Program Summary**

**Effective Catalog Term: Spring 2024 (630) through Fall 2025 (655) (CIP#1101312101)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Bachelor of Science in Pre-kindergarten/Primary Education (PKPED-BS) prepares students to teach ages 3 through grade 3 and allows graduates to earn an endorsement in ESOL (English to Speakers of Other Languages) and Reading.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSION REQUIREMENTS** **Credits** 60
**AA degree (60 credits)**

In addition to the State Mandated prerequisite course listed below, students are required to complete the general education Associates of Arts degree.

**STATE MANDATED PREREQUISITES** **Credits** 0

| | | |
|---|---|---|
| EDF 1005 | Introduction to Education | 3 |

**MAJOR CORE COURSES** **Credits** 60-62
**Complete 60 credits.**

| | | |
|---|---|---|
| EEC 3005 | Child Growth and Development in Early Childhood | 3 |
| EEC 3009 | Foundations of Early Childhood and Education | 3 |
| EEC 3403 | Young Children with Special Needs | 3 |
| EEC 3413 * | Working With Families in Early Childhood Education | 3 |
| EEC 4207 | Assessment and Evaluation of Young Children | 3 |
| EEC 4210 | Integrated Curriculum I for Prekindergarten / Primary Education | 3 |
| EEC 4211 | Integrated Curriculum II: For Prekindergarten/Primary Education | 3 |
| EEC 4247 | Integrated Humanities, Social Science and Arts | 3 |
| EEC 4314 | Classroom Management and Guidance of the Young Child | 3 |
| EEC 4940 ** | Pre-Kindergarten/Primary Education Practicum I | 1 |
| EEC 4941 ** | PreKindergarten/Primary Education Practicum II | 1 |
| EEC 4946 *** | Internship: Early Childhood Education PreKindergarten/Primary | 12 |
| EEX 4294 | Differentiated Instruction | 3 |
| RED 3309 * | Early and Emergent Literacy K-2 | 3 |
| RED 4511 * | Intermediate Literacy 3-6: Reading, Writing and Thinking | 3 |
| RED 4519 * | Diagnosis and Intervention in Reading for Students in K-12 | 3 |
| RED 4940 * | Final Reading Internship | 1-3 |
| TSL 3080 | ESOL Issues: Principles and Practices I K - 12 | 3 |
| TSL 4081 * | ESOL Issues: Principles & Practices II K-12 | 3 |
| TSL 4939 * | ESOL Capstone | 0 |

**60 hours required
***Full-time internship, 15 weeks
*includes field based hours

Total: 120-122

**Program Learning Outcomes**

1. Environment - Teacher candidates will demonstrate a safe inclusive classroom environment to support learners across academic and developmental domains.
2. Relationships - Teacher candidates will collaborate with parents, peers, administrators, and community members to support young children's learning and development.
3. Assessment- Teacher candidates will use a variety of data to make decisions to improve student learning.
4. Expertise - Teacher candidates will apply developmentally appropriate multidimensional instruction.

## Preschool Specialization Certificate (PRSP-CT)

**Program Summary**

**Effective Catalog Term: Spring 2015 (495) through Present (CIP#0419070908)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Preschool Specialization Certificate (PRSP-CT) coursework is part of an A.A. transfer pathway to several degree options in the College of Education. After you complete the appropriate A.A. transfer pathway, you can transfer into our Bachelor of Science Prekindergarten/Primary degree, which leads to certification in the state of Florida, or our Bachelor of Science degree Educational Studies and Community Leadership - Preschool Track.

**Estimated total program cost: $1,679.22**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 12
**Complete 12 credits**

| | | |
|---|---|---|
| EEC 1603 | Early Childhood Development | 3 |
| EEC 1600 | Guiding the Young Child | 3 |
| EEC 2312 | Developing Creative Activities for Young Children | 3 |
| EEC 2300 | Developing Cognitive Activities for Young Children(Math, Lnge Arts, Science, Social Studies, Health) | 3 |

Total: 12

**Program Learning Outcomes**

1. Students will demonstrate knowledge of health, safety, and nutrition and developmentally appropriate environments for preschoolers.
2. Students will apply knowledge of evidence-based content and instructional strategies in emergent literacy (language and communication), reading, and writing.
3. Students will gain knowledge of how to build positive relationships with children, families, and communities.

## Production Systems Management (PROSYS-AS)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Summer 2024 (635) (CIP#1652020501)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

*****THIS PROGRAM IS NO LONGER ADMITTING STUDENTS INTO THE INDUSTRIAL INTERNET OF THINGS (IOT) SUBPLAN. LAST ADMISSION TERM IS SUMMER 2022 (0605) FOR THIS SUBPLAN*** (11/23/2021)** The Production Systems Management AS (PROSYS-AS) program is a technical degree that combines aspects of management and supervision along with technical skills. This degree will honor SPC's long-standing articulation with Pinellas Technical College's (PTC) technical programs. The program consists of four subplans: Continuous Improvement Management (TQM), Control Systems (CSYS), and Articulations (ART). The **Continuous Improvement Management (TQM)** subplan includes the Lean Six-Sigma Green Belt Certificate and will prepare students for positions in quality control and quality management. These positions continue to be in demand as manufacturing production increases. The **Control Systems (CSYS)** subplan will meet the increasing demand for supervisors who can work with automation, sensors, PLCs, and robotics. The **Articulations (ART)** subplan includes Pinellas Technical College programs that range from 12-24 credits. Students who articulate programs that are less than 24 credits will need to take the remaining credits from a set list of classes that include technical courses from the remaining three subplans.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**MAJOR CORE COURSES** **Credits** 15
**Business Core Courses**

| | | |
|---|---|---|
| ACG 2021 | Financial Accounting | 3 |
| MAN 2340 | Supervisory Management | 3 |
| MAN 2582 | Introduction to Project Management | 3 |
| GEB 2214 | Business Communications | 3 |
| ETI 1100 | Statistical Process Control | 3 |

**MAJOR ELECTIVE COURSES** **Credits** 3
**Select one course from below (Complete 3 credits)**

| | | |
|---|---|---|
| LDR 2001 | Introduction to Leadership | 3 |
| MAN 2021 | Principles of Management | 3 |
| ENT 1000 | Intro to Entrepreneurship | 3 |
| BUL 2241 | Business Law I | 3 |
| FIN 2000 | Principles of Finance | 3 |
| EET 1035C | AC/DC Circuits with Lab | 3 |

**SUBPLAN** **Credits** 24
**Select one subplan from below (Complete 24 credits)**
**SUBPLAN CORE COURSES** **Credits** 0
**Continuous Improvement Management (TQM) (Complete 24 credits)**

| | | |
|---|---|---|
| ETM 1010C | Mechanical Measurement | 3 |
| ETI 1622 | Intro to Lean Six Sigma | 3 |
| ETI 1110 | Introduction to Quality Assurance | 3 |
| ETI 2610 | Six Sigma Methodology and Tools | 3 |
| ETI 2623 | Lean Systems | 3 |
| ETI 1701 | Industrial Safety | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| ETI 1420 | Manufacturing Processes and Materials I | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**Control Systems (CSYS) (Complete 24 credits)**

| | | |
|---|---|---|
| ETS 1511C | Motors and Controls | 3 |
| COP 1000 * | Introduction to Computer Programming | 3 |
| EET 1084C | Introduction to Electronics | 3 |
| ETS 1535C | Automation and Sensors | 3 |
| ETS 1542C | Programmable Logic Controllers (PLCs) | 3 |
| ETI 1701 | Industrial Safety | 3 |
| CGS 1515 | Spreadsheet Techniques and Programming | 3 |
| ETI 1420 | Manufacturing Processes and Materials I | 3 |

*Students should be comfortable with basic algebra and problem-solving tasks. It is recommended that students complete College Algebra (MAC 1105) before enrolling in COP 1000.

**SUBPLAN CORE COURSES** **Credits** 0
**Articulations (ART) (Articulate up to 24 credits)**

Students who have successfully earned the FAA Aviation Mechanic Technician: Airframe AND the FAA Aviation Mechanic Technician: Powerplant certifications may articulate in up to 24 credits. Students who have earned these industry certifications may received credit for the following coursework:

| | | |
|---|---|---|
| AMT 1715 | Aviation Airframe Maintenance I | 6 |
| AMT 1716 | Aviation Airframe Maintenance II | 6 |
| AMT 1725 | Aviation Powerplant Maintenance Technician I | 6 |
| AMT 1726 | Aviation Powerplant Maintenance Technician II | 6 |

Total: 60

**Program Learning Outcomes**

1. Apply basic decision-making skills in supervision.
2. Demonstrate knowledge of information-processing activities
3. Identify management functions.
4. Apply basic quality control principles.

## Project Management (PRJMGT-CT)

**Program Summary**

**Effective Catalog Term: Spring 2016 (510) through Present (CIP#5552029900)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** The project management courses identified in this certificate program aim to meet the educational requirement for the PMP®, Agile PM®, and CAPM® Certificates administered globally by and are registered marks of the Project Management Institute.

**Estimated total program cost: $3,114.81**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18

| | | |
|---|---|---|
| MAN 3503 | Managerial Risk Analysis and Decision Making | 3 |
| MAN 4583 | Project Management | 3 |
| MAN 4741 | Innovation, Change and Agile Projects | 3 |
| MAN 4881 | Authority Influence and Projects | 3 |
| MAN 4883 | Project Management Methodology in Specialization | 3 |
| MAN 4885 | Complex and Advanced Projects | 3 |

Total: 18

**Program Learning Outcomes**

1. Apply core project management strategies and practices to optimize project outcomes across diverse industries.
2. Apply and evaluate established project management principles and best practices to effectively plan, execute, and close professional projects.
3. Create and implement efficient project communications; build and maintain a cohesive project team.

## Public Policy and Administration (PPA-BS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#440401)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The goal of this program is to prepare students for the dynamic nature of public policy and administration by providing critical thinking and problem solving techniques which will enable them to make sound decisions and influence policy affecting organizations, communities, a whole state or the entire nation. Graduates will be prepared to use advanced critical thinking and analytical skills to effectively solve the myriad problems which arise in a changing world and comply with modern demands for accountability. Students will demonstrate the advanced knowledge and tools necessary to:

- Evaluate and design public policy
- Apply the appropriate communication and negotiation skills within the structure and processes of government
- Use the technical skills and political astuteness required of a public policy/administration professional
- Demonstrate the management and leadership qualities of a public policy/administration professional who can readily anticipate issues and demonstrate the ability to adapt to governments that are in a constant state of flux.

**Estimated total program cost: $10,137.32**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSIONS COURSES** **Credits** 60
**A.A. Degree or A.S. Degree**

For A.S. degree holders, an additional 15-21 general education credits are required to complete the thirty-six (36) credit hour general education requirement of St. Petersburg College.

| **ADMISSIONS COURSES**<br>**ADDITIONAL GENERAL EDUCATION COURSES - Grade of "C" or higher** | **Credits** |
|---|---|
| A. COMMUNICATIONS | 9 |
| B. HUMANITIES/FINE ARTS | 6 |
| C. MATHEMATICS | 6 |
| D. NATURAL & PHYSICAL SCIENCES | 6 |
| E. SOCIAL AND BEHAVIORAL SCIENCES | 6 |
| F. ETHICS | 3 |
| G. COMPUTER/INFORMATION LITERACY COMPETENCY | 0 |
| H. ENHANCED WORLD VIEW | 0 |

**STATE MANDATED PREREQUISITES** **Credits** 0
**The following three courses are required & may be used as part of the General Education Requirements**

| | | |
|---|---|---|
| CGS 1100 | Computer Applications | 3 |
| POS 2041 | American National Government | 3 |
| (Select one Economics course) | | |
| | | 3 |
| ECO 2013 | Principles of Macroeconomics | 3 |
| OR | | |
| ECO 2023 | Principles of Microeconomics | 3 |

**MAJOR CORE COURSES** **Credits** 45
**Complete 45 credits**

****It is highly recommended that students enroll in PUP 3002 in the first term of their program.**

| | | |
|---|---|---|
| PUP 3002 ** | Introduction to Public Policy and Administration | 3 |
| ISM 3011 | Management Information Systems | 3 |
| MAN 3301 | Public Personnel Management | 3 |
| PLA 3885 | United States Constitutional Law | 3 |
| PAD 4204 | Public Finance | 3 |
| PAD 4232 | Grant Administration & Resource Development | 3 |
| PAD 4603 | Administrative Law | 3 |
| POS 3235 | Mass Media & Public Policy | 3 |
| PUP 3040 | State and Local Government and Public Policy | 3 |
| PUP 3033 | Policy Leadership | 3 |
| PUP 3043 | Evaluating Public Policy (Research Methods I) | 3 |
| PUP 3046 | Policy Data Analysis (Research Methods II) | 3 |
| PUP 3054 | Policy and Ethics | 3 |
| PUP 3823 | Emergency and Crisis Communications | 3 |
| PUP 4941 | Public Policy Capstone | 3 |

**It is highly recommended that students enroll in PUP 3002 in the first term of their program.

**MAJOR ELECTIVE COURSES** **Credits** 15
**Select 15 credits**

| | | |
|---|---|---|
| COM 3120 | Organizational Communication | 3 |
| EDF 3660 | Education and Public Policy in the United States | 3 |
| HUS 4561 | Social Problems and Policy | 3 |
| INR 4030 | Diplomacy | 3 |
| MAN 4102 | Management of Cultural Dynamics | 3 |
| PAD 3330 | Urban and Regional Planning | 3 |
| PAD 3311 | Program Planning & Evaluation | 3 |
| PAD 4332 | Strategic and Operational Planning | 3 |
| POS 3272 | American Civic Life | 3 |
| PUP 3052 | Issues in International Policy | 3 |
| PUP 3055 | Public Policy and Negotiation | 3 |
| PUP 4949 | Public Policy and Administration Co-op Work Experience | 3 |

Total: 120

**Program Learning Outcomes**

1. Exhibit the ability to plan and organize issues to address a public policy and administration topic.
2. Apply the Public Policy Administration program's four-step policy analysis process by utilizing competent oral and written communication skills.
3. Demonstrate a thorough knowledge and understanding of national, state, and local regulatory standards.
4. Acquire and implement advanced critical thinking skills needed to be an effective public policy leader.
5. Exhibit application of professional and ethical management and leadership skills commensurate with the International City Manager's Association (ICMA) and the American Society for Public Administration (ASPA).

# Public Safety (CJPSS-AS)

**Program Summary**

**Effective Catalog Term: Spring 2025 (645) through Present (CIP#1743010302)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

*****THIS PROGRAM IS NO LONGER ADMITTING STUDENTS INTO THE CROSS DISCIPLINE (CRJ) SUBPLAN OR CORRECTIONS (COR) SUBPLAN. LAST ADMISSION TERM FOR THESE SUBPLANS IS SUMMER 2023 (620).*****

**This program is offered as a Fully Online program.** The goal of this program is to prepare the student with a diverse background in the history, philosophy, organization and operation of the various arenas of public safety and their respective processes. The flexibility of this degree is that the student is allowed to select an option/sub plan and still be able to receive a well rounded foundation of the public safety field. The Associate in Science degree program allows students to not only graduate with an AS degree, but also be able to meet the entrance requirements to continue the BAS degree in Public Safety Administration.

**Estimated total program cost: $9,412.45**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Communications - Literature* | 3 |
| Complete 3 credits from the approved General Education Composition II/Literature coursework . Minimum grade of "C" required. This requirement must be completed within the first 36 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 3
**American Government (Select 3 credits)**

| | | |
|---|---|---|
| Completion of this requirement satisfies the General Education Social/Behavioral Science core requirement and the Civic Literacy course requirement for this AS degree. | | 0 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**MAJOR CORE COURSES** **Credits** 15
**Complete 15 credits**

| | | |
|---|---|---|
| CCJ 1020 | Introduction to Criminal Justice | 3 |
| CCJ 2720 | Intro to Research Methods in Criminology | 3 |
| CCJ 2358 | Capstone: Criminal Justice Report Writing | 3 |
| CJE 2645 | Introduction to Forensic Science | 3 |
| CJL 2062 | Constitutional Law & Rules of Evidence | 3 |

Note: Students who plan to pursue the St. Petersburg College Law Enforcement Academy should NOT enroll in CCJ 1020 and CJL 2062. Graduates of the SPC academy who pass the exam are eligible to receive credit for these two courses.

**SUBPLAN** **Credits** 24
**Select one subplan from below (Complete 24 credits)**
**SUBPLAN CORE COURSES**
**Subplan: Criminal Justice Technology (CJPSS) (Complete 24 credits)**

| | | |
|---|---|---|
| CCJ 1512 | Gangs and Terrorism | 3 |
| CCJ 1629 | Introduction to Murder | 3 |
| CJE 1202 | Crime and Delinquency | 3 |
| CJE 1681 | Internet as an Investigative Tool | 3 |
| CJE 2605 | Investigative Trends | 3 |
| CJE 2644 | Crime Scene Safety | 3 |
| DSC 1002 | Domestic & International Terrorism | 3 |
| DSC 1004 | Introduction to the NRF and NIMS | 3 |

**SUBPLAN CORE COURSES**
**Subplan: Digital Forensics and Computer Investigations (DIGFORN) (Select 24 credits)**

| | | |
|---|---|---|
| CET 1171C | Computer Repair Essentials | 3 |
| CET 1172C | Computer Support Technician | 3 |
| CIS 1358 | Operating System Security | 3 |

| | | |
|---|---|---|
| CJE 1680 ** | Introduction to Computer Related Crime Investigations | 3 |
| CJE 1669 ** | Identity Theft Investigations | 3 |
| CJE 1681 ** | Internet as an Investigative Tool | 3 |
| CJE 1682 ** | Tracking and Profiling Hackers, Pedophiles and Internet Stalkers | 3 |
| CJE 1684 ** | Internet Fraud Investigations | 3 |
| CJE 1685 ** | Legal Aspects of Computer Related Criminal Investigations | 3 |
| CJE 1686 ** | Forensic Computer Related Crime Investigations | 3 |
| CTS 1120 ** | Network Security Foundations | 3 |

**Course applies towards completion of Computer Related Crime Certificate (CRCI-CT)

**SUBPLAN CORE COURSES**
**Subplan: Crime Scene Technology (CST) (Complete 24 credits)**

| | | |
|---|---|---|
| CJE 1640 * | Introduction to Crime Scene Technology | 3 |
| CJE 1643 * | Advanced Crime Scene Technology | 3 |
| CJE 2644 * | Crime Scene Safety | 3 |
| CJE 2671 *,+ | Latent Fingerprint Development | 3 |
| CJE 2672 * | Fingerprint Classification | 3 |
| CJE 2673C * | Crime Scene Photography | 3 |
| CJE 2676 * | Biological Evidence | 3 |
| CJL 2610 *,+ | Courtroom Presentation of Scientific Evidence | 3 |

*Course applies towards completion of Crime Scene Technology Certificate (CST-CT)
*,+ +Courses CJL 2610 and CJE 2671 should be taken during the student's last semester.

**SUBPLAN**
**Law Enforcement (LAW ENF) (Complete 24 credits)**

**Students must be a Law Enforcement Officer or Law Enforcement Academy graduate to enter this subplan.** Students who complete the PSAV Law Enforcement Academy will have 9 credits articulated into this subplan. Students must complete an additional 15 credits of coursework to satisfy the 24 credit subplan requirements. Students completing this degree using articulated credits must meet with the program office or the SEPSI Advisor to verify that all requirements of this option have been fulfilled.

| | | |
|---|---|---|
| Articulated Credits | | |
| CJE 2605 | Investigative Trends | 3 |
| CJE 2940 | Internship | 6 |
| Complete 15 credits from courses listed below: | | |
| CCJ 1512 ^ | Gangs and Terrorism | 3 |
| CCJ 1629 | Introduction to Murder | 3 |
| CCJ 2509 ^ | Introduction to Gangs and Crime | 3 |
| CJE 1681 | Internet as an Investigative Tool | 3 |
| CJE 1202 | Crime and Delinquency | 3 |
| CJE 2644 | Crime Scene Safety | 3 |
| CJL 2610 ^ | Courtroom Presentation of Scientific Evidence | 3 |
| DSC 1002 | Domestic & International Terrorism | 3 |
| DSC 1004 | Introduction to the NRF and NIMS | 3 |

^Students may be able to earn articulated credit for this course based on completion of certain law enforcement experience or training.
^, ++For students in this degree, this course is intended for articulation only, and is not included in program requirements.

Total: 60

**Program Learning Outcomes**

1. Identify, analyze and evaluate the components of the criminal justice system from investigation and arrest through trial, sentencing and post-conviction re-entry into society.
2. Locate and apply criminal law and the rules of procedure.
3. Explain police operations, agency policies and services.
4. Construct clear and comprehensive reports of police operations and apply law and administrative regulations to those operations. Reports must be suitable for use within professional agencies and the court system.
5. Crime Scene Investigation Subplan: Record the crime scene and related evidence. Collect and develop evidence. Develop and preserve fingerprint evidence. Map, measure and log the crime scene. Explain crime scene safety. Give evidence at trial using demonstrative tools.
6. Digital Forensics Subplan: List and explain digital investigative methodologies. Employ digital tools of inquiry. Collect and analyze digital evidence.
7. Criminal Justice Subplan: Explain the role of local police in public safety. Explain the idea of community policing. Detail techniques of interview and investigation. Detail techniques for dealing with juvenile offenders. Collect and preserve testimonial, documentary, and physical evidence.

## Public Safety Administration (PSA-BAS)

**Program Summary**

**Effective Catalog Term: Fall 2025 (655) through Present (CIP#1104399991)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This program develops competencies that help students solve management problems, understand finance and budgets, fine tune strategic plans, develop and evaluate programs, enhance human resource potential, increase productivity and address internal organizational issues.

The PSA-BAS degree, along with the appropriate certifications, prepares graduates for entry-level positions in law enforcement, fire services, corrections, emergency medical services, emergency administration management, and industrial security enterprises in government and private sector agencies.

**Estimated total program cost: $10,024.16**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSION REQUIREMENTS** **Credits** 60

Complete a minimum of 60 credits from a regionally accredited institution, including -

- 15 credits of general education courses;
- ENC 1101 - Composition I or equivalent;
- College-level math course: MAT 1033, MAT 1100, STA 2023/H, or any course with MAC, MGF, or MAS prefix

**STATE MANDATED PREREQUISITES** **Credits**

No State Mandated Prerequisites are required.

**LOWER DIVISION SUPPORT COURSES** **Credits** 18

Students who have not completed an AS degree in a Public Safety Related field are required to complete 18 credits total of lower division public safety courses in addition to the bachelor level classes. These courses include the pre-fixes of CCJ, CJL, CJB, CJD, CJE, CJT, DSC, EMS, and FFP.

**MAJOR CORE COURSES** **Credits** 27
**Core Requirements (Complete 27 credits)**

| | | |
|---|---|---|
| MAN 3301 | Public Personnel Management | 3 |
| PAD 3311 | Program Planning & Evaluation | 3 |
| PAD 3820 | Foundations of Public Safety Administration | 3 |
| PAD 3874 | Community Relations Theory and Practice | 3 |
| PAD 4046 | Managing Conflict in Public Organizations | 3 |
| PAD 4204 | Public Finance | 3 |
| PAD 4232 | Grant Administration & Resource Development | 3 |
| PAD 4603 | Administrative Law | 3 |
| PAD 4878 [1] | Public Safety Administration Capstone | 3 |

[1]Prior to registering for Capstone course (PAD 4878) all other coursework should be completed (or enrolled in).

**MAJOR ELECTIVE COURSES** **Credits** 6
**Elective Courses (Select 6 credits)**

| | | |
|---|---|---|
| CCJ 3075 * | Introduction to Cybercrime | 3 |
| COM 3120 | Organizational Communication | 3 |
| ISM 3011 | Management Information Systems | 3 |
| MAN 3240 | Applied Organizational Behavior | 3 |
| MAN 3303 | Management & Leadership Practices | 3 |

| | | |
|---|---|---|
| PAD 3034 | Survey of Public Policy | 3 |
| PAD 4332 | Strategic and Operational Planning | 3 |
| PAD 4393 | Critical Incident Management | 3 |
| PAD 4426 | Public Sector Labor Relations and Collective Bargaining | 3 |

*Note: Completion of CCJ 3075 will result in 3 credits being applied to the Major Core Elective requirement OR 3 credits applied to the Cybercrime (CC) subplan requirement.

**SUBPLAN** **Credits** 9
**Select ONE subplan from below (Complete 9 credits):**
**SUBPLAN CORE COURSES** **Credits** 0
**Subplan: Criminal Justice (CJ)**

| | | |
|---|---|---|
| CJC 3311 | Contemporary Issues & Trends in Corrections | 3 |
| CJC 3601 | Corrections Practice & Policy | 3 |
| CJE 3341 | Patrol Issues in Law Enforcement Administration | 3 |
| CJE 3361 | Management of Specialized Law Enforcement Units | 3 |
| CJE 3611 | Criminal Investigations Theory and Practice | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**SUBPLAN: Cybercrime (CC)**

| | | |
|---|---|---|
| CCJ 3075 | Introduction to Cybercrime | 3 |
| CJE 3213 | Digital Forensics in Public Safety | 3 |
| CJE 3214 | Advanced Topics in Digital Forensics | 3 |
| CJE 3215 | Mobile Device Forensics | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**SUBPLAN: Emergency Management and Homeland Security (EMHS)**

| | | |
|---|---|---|
| FES 3823 | Planning Methodology for Hazard Mitigation | 3 |
| FES 3833 | Emerging Issues in Environmental Disaster Management | 3 |
| FES 4014 | Evolution of Emergency Management | 3 |
| PAD 4393 | Critical Incident Management | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**SUBPLAN: Fire Science (FSE)**

| | | |
|---|---|---|
| FES 3003 | Political and Legal Foundations for Fire Protection | 3 |
| FES 3015 | Advanced Fire Administration | 3 |
| FES 3533 | Community Fire & Risk Reduction | 3 |
| FES 3780 | Analytical Approaches to Public Fire Protection | 3 |
| FES 4585 | Fire Prevention Organization and Management | 3 |
| FFP 3785 | Chief Officer | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**SUBPLAN: Cross Discipline (CD)**

| | |
|---|---|
| Choose 9 credits from the Subplans above | 9 |

Total: 120

**Program Learning Outcomes**

1. To develop the knowledge, skills, and abilities necessary for students to assume various supervision and leadership roles within the field of public safety administration.

2. Accurately evaluate project management, budgets, data analysis and response methods related to rapidly changing environments and employment communities.
3. Summarize ethical and legal decision-making processes in public safety administration using higher order critical thinking skills.
4. Analyze effective communication and problem-solving practices for application to various public safety administration scenarios.

## Radiography (RAD-AS)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Summer 2024 (635) (CIP#1351091100)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

Transferable to a Bachelor's Degree in Health Services Administration at SPC. Program begins in January.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 15
**AS Gen Ed**

| | |
|---|---|
| *AS GENERAL EDUCATION REQUIREMENTS - Communications - Composition- Core*<br>Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *AS GENERAL EDUCATION REQUIREMENTS - Communications - Speech*<br>Complete 3 credits from the approved General Education Speech coursework . Minimum grade of "C" required. | 3 |
| *AS GENERAL EDUCATION REQUIREMENTS - Social and Behavioral Sciences- Core*<br>Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *AS GENERAL EDUCATION REQUIREMENTS - Humanities and Fine Arts-Core*<br>Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *AS GENERAL EDUCATION REQUIREMENTS - Ethics* | 3 |

Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Enhanced World View*

Complete at least one 3-credit course from the approved General Education Enhanced Worldview course list. This requirement is intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Civic Literacy*

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES: Anatomy & Physiology** **Credits** 10
**Anatomy and Physiology (Complete 10 credits)**

Completion of this requirement satisfies the General Education Natural Science Core requirement for this AS degree.

| | | |
|---|---|---|
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |
| HSC 1531 | Medical Terminology I | 2 |

**SUPPORT COURSES** **Credits** 3
**Computer and Information Literacy Requirement (Complete 1 course)**

Completion of this requirement satisfies the General Education Computer Competency Requirement for this AS degree.

| | | |
|---|---|---|
| CGS 1100 | Computer Applications | 3 |

**SUPPORT COURSES** **Credits** 3
**Mathematics (Select 3 credits)**

Completion of this requirement satisfies the General Education Mathematics Core requirement for this AS degree.

| | | |
|---|---|---|
| MAC 1105 | College Algebra | 3 |
| MAC 1114 | Trigonometry | 3 |
| MAC 1140 | Pre-Calculus Algebra | 3 |
| MAC 1147 | Pre-Calculus Algebra/Trigonometry | 5 |
| MAC 2311 | Calculus with Analytic Geometry I | 5 |
| MAC 2233 | Applied Calculus I | 3 |

**MAJOR CORE COURSES** **Credits** 10
**1st Term in Program (Complete 10 credits)**

| | | |
|---|---|---|
| RTE 1000 | Orientation to Radiography | 3 |

| | | |
|---|---|---|
| RTE 1418 | Principles of Imaging I | 2 |
| RTE 1418L | Principles of Imaging I Lab | 1 |
| RTE 1503C | Radiographic Procedures I | 3 |
| RTE 1503L | Radiographic Procedures I Lab | 1 |

**MAJOR CORE COURSES** **Credits** 6
**2nd Term in Program (Complete 6 credits)**

| | | |
|---|---|---|
| RTE 1513C | Radiographic Procedures II | 2 |
| RTE 1513L | Radiographic Procedures II Lab | 1 |
| RTE 1804L | Radiographic Clinical Education I | 3 |

**MAJOR CORE COURSES** **Credits** 9
**3rd Term in Program (Complete 9 credits)**

| | | |
|---|---|---|
| RTE 1458 | Principles of Imaging II | 3 |
| RTE 1473L | Radiographic Quality Assurance Lab | 1 |
| RTE 1814L | Radiographic Clinical Education II | 5 |

**MAJOR CORE COURSES** **Credits** 7
**4th Term in Program (Complete 7 credits)**

| | | |
|---|---|---|
| RTE 2824L | Radiographic Clinical Education III | 5 |
| RTE 2385 | Radiation Biology | 2 |

**MAJOR CORE COURSES** **Credits** 6
**5th Term in Program (Complete 6 credits)**

| | | |
|---|---|---|
| RTE 2782 | Radiographic Pathology | 2 |
| RTE 2834L | Radiographic Clinical Education IV | 4 |

**MAJOR CORE COURSES** **Credits** 8
**6th Term in Program (Complete 8 credits)**

| | | |
|---|---|---|
| RTE 2563 | Advanced Medical Imaging | 3 |
| RTE 2844L | Radiographic Clinical Education V | 5 |

Total: 77

**Program Learning Outcomes**

1. The student will demonstrate an understanding of radiation safety at the levels of recall, application, and analysis.
2. The student will demonstrate an understanding of equipment operation and quality assurance at the levels of recall, application, and analysis.
3. The student will demonstrate an understanding of image acquisition and evaluation at the levels of recall, application, and analysis.
4. The student will demonstrate an understanding of radiographic procedures at the levels of recall, application, and analysis.
5. The student will demonstrate an understanding of patient care at the levels of recall, application, and analysis.

## Rapid Prototyping and Design (RAPID-CT)

**Program Summary**

**Effective Catalog Term: Spring 2025 (645) through Present (CIP#0615130211)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should

visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate provides a program of study with courses in solid modeling, using SolidWorks. By completing this certificate, the students will provide the technical expertise for the engineering activities of industry in planning, designing, and detailing for Rapid Prototyping. This certificate utilizes the 3-D printers and CNC machines for the solid modeling design process and development of the final product. These courses are also applied to the 60-credit hour Associate in Science Degree in Engineering Technology. Students new to this field will be able to obtain employment by completing this certificate and work in those areas where Rapid Prototyping is used.

**Estimated total program cost: $1,856.35**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 12
**Select 12 credits.**

| | | |
|---|---|---|
| ETD 2364C | Introduction to SolidWorks | 3 |
| ETD 2367C | Fusion 360 | 3 |
| ETD 2371C | Rapid Protyping Model Design and Fabrication | 3 |
| ETD 2372C | Rapid Prototyping II-Manufacturing Methods | 3 |
| ETD 2382C | Solidworks Simulation Design Analysis | 3 |
| *AND* | | |
| ETD 2368C | Advanced Solidworks | 3 |
| OR | | |
| ETD 2369C | SolidWorks Applications | 3 |

Total: 12

**Program Learning Outcomes**

1. Demonstrate proficiency in 3D digital modeling software packages for product design.
2. Demonstrate proficiency in the use of digital tools for product design.
3. Demonstrate proficiency in the principles, concepts, and applications in digital manufacturing processes.

## Respiratory Care (RESC-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1351090800)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Respiratory Care Program is dedicated to the philosophy and goals of the college. The Respiratory Care Program is designed to offer the student planned learning experiences and to provide knowledge, skills, and promote attitudes that will culminate in successful employment of the graduate as a respiratory therapist. The Associate of Science in Respiratory Care is transferable to a Bachelor's degree in Health Services Administration at SPC. Program begins in August.

**Estimated total program cost: $14,607.44**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 18
**AS Gen Ed**

*AS GENERAL EDUCATION REQUIREMENTS - Communications - Composition- Core*

Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree.

*AS GENERAL EDUCATION REQUIREMENTS - Humanities and Fine Arts-Core*

Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Mathematics-Core*

Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Social and Behavioral Sciences- Core*

Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Social and Behavioral Sciences*

Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Ethics*

Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required.

*AS GENERAL EDUCATION REQUIREMENTS - Computer/Information Literacy Competency*

Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required.

*AS GENERAL EDUCATION REQUIREMENTS - Enhanced World View*

Complete at least one 3-credit course from the approved General Education Enhanced Worldview course list. This requirement is intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement.

*AS GENERAL EDUCATION REQUIREMENTS - Civic Literacy*

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES: Anatomy & Physiology** **Credits** 8
**Anatomy & Physiology (Complete 8 credits)**

Completion of this requirement satisfies the General Education Natural Science Core requirement for this AS degree.

| | | |
|---|---|---|
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |

**SUPPORT COURSES** **Credits** 4
**Microbiology (Complete 4 credits)**

| | | |
|---|---|---|
| MCB 2010 * | Microbiology | 3 |
| MCB 2010L * | Microbiology Laboratory | 1 |

*MCB 2000/L cannot be used in lieu of MCB 2010/L to satisfy the state-mandated prerequisite requirement for the Cardiopulmonary Science bachelor's program.

**MAJOR CORE COURSES** **Credits** 8
**1st Term in Program (Complete 8 credits)**

| | | |
|---|---|---|
| RET 1007 | Respiratory Pharmacology | 3 |

| | | |
|---|---|---|
| RET 1024 | Fundamentals of Respiratory Care | 3 |
| RET 1874L | Clinical Practice I | 2 |

**MAJOR CORE COURSES** **Credits** 8
**2nd Term in Program (Complete 8 credits)**

| | | |
|---|---|---|
| RET 1264 | Principles of Mechanical Ventilation | 3 |
| RET 1485 | Cardiopulmonary Physiology | 3 |
| RET 1875L | Clinical Practice II | 2 |

**MAJOR CORE COURSES** **Credits** 6
**3rd Term in Program (Complete 6 credits)**

| | | |
|---|---|---|
| RET 2284 | Advanced Modalities and Monitoring | 2 |
| RET 2876L | Clinical Practice III | 4 |

**MAJOR CORE COURSES** **Credits** 11
**4th Term in Program (Complete 11 credits)**

| | | |
|---|---|---|
| RET 2414 | Diagnostic Procedures and Pulmonary Rehabilitation | 3 |
| RET 2450 | Cardiopulmonary Assessment | 2 |
| RET 2484 | Pulmonary Disease | 2 |
| RET 2877L | Clinical Practice IV | 4 |

**MAJOR CORE COURSES** **Credits** 9
**5th Term in Program (Complete 9 credits)**

| | | |
|---|---|---|
| RET 2244 | LIfe Support | 1 |
| RET 2714 | Neonatal-Pediatric Respiratory Care | 2 |
| RET 2878L | Clinical Practice V | 4 |
| RET 2935 | Medical-Surgery Aspects of Respiratory Care | 2 |

**MAJOR CORE COURSES** **Credits** 4
**6th Term in Program (Complete 4 credits)**

| | | |
|---|---|---|
| RET 2879L | Clinical Practice VI | 4 |

Total: 76

**Program Learning Outcomes**

1. Clinical & didactic emphasis on clinical data using the NBRC content matrix.
2. Clinical & didactic emphasis on equipment using the NBRC content matrix.
3. Clinical & didactic emphasis on therapeutic procedures using the NBRC content matrix.

## Respiratory Care: CRT Transitional (CRT-RESC-AS)

**Summary**

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 18
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |

| | |
|---|---|
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Social and Behavioral Sciences* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | |
| AMH 2010 History of the United States I | 3 |
| AMH 2010H Honors History of the United States I | 3 |
| AMH 2020 History of the United States II | 3 |
| AMH 2020H Honors History of the US II | 3 |
| POS 2041 American National Government | 3 |
| POS 2041H Honors American National Government | 3 |

**SUPPORT COURSES: Anatomy & Physiology/Chemistry** **Credits** 8
**Complete 8 credits**

Completion of this requirement satisfies the General Education Natural Science Core requirement for this AS degree.

| | | |
|---|---|---|
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |

**SUPPORT COURSES** **Credits** 4
**Microbiology (Complete 4 credits)**

| | | |
|---|---|---|
| MCB 2010 | Microbiology | 3 |
| MCB 2010L | Microbiology Laboratory | 1 |

- - - - - - - - - - - - - - - **Credits** 26
**Advanced Placement Credit**

26

**MAJOR CORE COURSES** **Credits** 6
**1st Term in Program (Complete 6 credits)**

| | | |
|---|---|---|
| RET 1264 | Principles of Mechanical Ventilation | 3 |
| RET 1485 | Cardiopulmonary Physiology | 3 |

**MAJOR CORE COURSES** **Credits** 2
**2nd Term in Program (Complete 2 credits)**

| | | |
|---|---|---|
| RET 2284 | Advanced Modalities and Monitoring | 2 |

**MAJOR CORE COURSES** **Credits** 7
**3rd Term in Program (Complete 7 credits)**

| | | |
|---|---|---|
| RET 2414 | Diagnostic Procedures and Pulmonary Rehabilitation | 3 |
| RET 2450 | Cardiopulmonary Assessment | 2 |
| RET 2484 | Pulmonary Disease | 2 |

**MAJOR CORE COURSES** **Credits** 5
**4th Term in Program (Complete 5 credits)**

| | | |
|---|---|---|
| RET 2244 | LIfe Support | 1 |
| RET 2714 | Neonatal-Pediatric Respiratory Care | 2 |
| RET 2935 | Medical-Surgery Aspects of Respiratory Care | 2 |

Total: 76

## Risk Management and Insurance Management (RISKMGT-CT)

**Program Summary**

**Effective Catalog Term: Fall 2021 (595) through Present (CIP#0552021501)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

St. Petersburg College and the Florida Association of Insurance Agents (FAIA) have formed a workforce partnership for the insurance community. The Risk Management and Insurance Management Certificate (CCC) provides foundational knowledge in Business skills, as well as, Risk and Insurance Management. Concepts covered include business practices such as standard operating procedures, budgeting, planning, organizing, marketing,

customer service, property and casualty rules, personal and commercial insurance rules, and risk management theory. Emphasis is placed on understanding the concepts of risk, insurance sales, insurance products/policies, customer service, and providing the right coverage for the amount of risk exposure. The certificate provides individuals with the skills and knowledge needed for employment in risk management and insurance positions. The program is also a good fit for individuals already employed in the insurance field who want to upskill and expand their knowledge in the areas of property, liability, commercial and personal insurance. The certificate is fully embedded and transferable toward the Business Administration AS degree (Financial Services sub-plan). Completion of this certificate and a minimum, 2-year degree enables individuals to earn up to three Florida insurances licenses (4-40, 20-44, 2-40). Licenses are awarded without state examination through the Division of Insurance Agent and Agency Services.

**Estimated total program cost: $3,919.05**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 24
**Risk Management and Insurance Management - 24 Credit Hours**

| | | |
|---|---|---|
| GEB 1011 | Introduction to Business | 3 |
| GEB 2214 | Business Communications | 3 |
| RMI 1201 | Principles of Property and Liability Insurance | 3 |
| MAN 2021 | Principles of Management | 3 |
| RMI 2113 | Personal Insurance | 3 |
| RMI 2213 | Commercial Insurance | 3 |
| ACG 2021 | Financial Accounting | 3 |
| | | 3 |
| BUL 2241 | Business Law I | 3 |
| OR | | |
| BUL 2131 | Legal Environment of Business | 3 |

Total: 24

**Program Learning Outcomes**

1. Demonstrate effective business communication skills.
2. Describe the significance of legal and ethical issues in a business environment.
3. Develop human resources skills.
4. Demonstrate employability skills.
5. Prepare or develop strategic or organizational skills.
6. Identify, classify, and demonstrate management activities.
7. Demonstrate knowledge and application of personal insurance planning.
8. Demonstrate knowledge and application of personal and business property insurance.

9. Demonstrate knowledge of risk management and insurance.

## Rooms Division Management (RDM-CT)

**Program Summary**

**Effective Catalog Term: Fall 2017 (535) through Present (CIP#0252090402)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate is designed to prepare students for employment as supervisors and managers in hotels, resorts and cruise lines, as well as related hospitality sectors.

**Estimated total program cost: $5,055.73**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 30

| | | |
|---|---|---|
| FSS 2235C | Introductory Food Production Management | 3 |
| HFT 1000 | Introduction to the Hospitality and Tourism Industry | 3 |
| HFT 1300 | Housekeeping Operations | 3 |
| HFT 1410 | Front Office Procedures | 3 |
| HFT 1941 | Operations and Service Practicum | 2 |
| HFT 2600 | Hospitality Law | 3 |
| HFT 2750 * | The Event Industry | 3 |
| HFT 2942 | Hospitality Internship | 3 |
| MAN 2340 | Supervisory Management | 3 |
| MAR 2011 | Principles of Marketing | 3 |
| MNA 1751 | Customer Service I: Developing A Spirit of Customer Service | 1 |

*Previously listed as HFT XXXX. Updated 11.1.2017

Total: 30

**Program Learning Outcomes**

1. Analyze information for decision making.
2. Identify ethical and legal responsibilities specific to the field.
3. Analyze service excellence principles and culture.

4. Perform hospitality industry-specific workplace skills: A. Cost controls - students will identify areas of cost control in food production B. Food production - students will demonstrate proficiency in quantity food production C. Housekeeping - students will demonstrate proficiency in procedures for control systems D. Front Office - students will demonstrate front-office procedures for auditing E. Event Management - discuss the importance and process of setting goals and objectives when planning MEEC gatherings.

## Rooms Division Operation (RDO-CT)

**Program Summary**

**Effective Catalog Term: Fall 2017 (535) through Present (CIP#0252090406)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate is designed to prepare students for employment as supervisors and managers in hotels, resorts and cruise lines, as well as related hospitality sectors.

**Estimated total program cost: $3,236.63**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 19

| | | |
|---|---|---|
| HFT 1000 | Introduction to the Hospitality and Tourism Industry | 3 |
| HFT 1300 | Housekeeping Operations | 3 |
| HFT 1410 | Front Office Procedures | 3 |
| HFT 2750 * | The Event Industry | 3 |
| MAN 2340 | Supervisory Management | 3 |
| MAR 2011 | Principles of Marketing | 3 |
| MNA 1751 | Customer Service I: Developing A Spirit of Customer Service | 1 |

*Previously HFT XXXX. Updated 11.1.2017

Total: 19

**Program Learning Outcomes**

1. Analyze information for decision making.
2. Identify ethical and legal responsibilities specific to the field.
3. Analyze service excellence principles and culture.

4. Perform hospitality industry-specific workplace skills: A. Cost controls - students will identify areas of cost control in food production B. Food production - students will demonstrate proficiency in quantity food production C. Housekeeping - students will demonstrate proficiency in procedures for control systems D. Front Office - students will demonstrate front-office procedures for auditing E. Event Management - discuss the importance and process of setting goals and objectives when planning MEEC gatherings.

## Rooms Division Specialist (RDS-CT)

**Program Summary**

**Effective Catalog Term: Fall 2017 (535) through Present (CIP#0252090405)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate is designed to prepare students for employment in hotels, resorts and cruise lines, as well as related hospitality sectors.

**Estimated total program cost: $2,187.63**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 13

| | | |
|---|---|---|
| HFT 1000 | Introduction to the Hospitality and Tourism Industry | 3 |
| HFT 1300 | Housekeeping Operations | 3 |
| HFT 1410 | Front Office Procedures | 3 |
| MAN 2340 | Supervisory Management | 3 |
| MNA 1751 | Customer Service I: Developing A Spirit of Customer Service | 1 |

Total: 13

**Program Learning Outcomes**

1. Analyze information for decision making.
2. Identify ethical and legal responsibilities specific to the field.
3. Analyze service excellence principles and culture.
4. Perform hospitality industry-specific workplace skills: A. Cost controls - students will identify areas of cost control in food production B. Food production - students will demonstrate proficiency in quantity food production C. Housekeeping - students will demonstrate proficiency in procedures for control systems D. Front Office - students will demonstrate front-office procedures for auditing E. Event Management - discuss the importance and process of setting goals and objectives when planning MEEC gatherings.

# Secondary Education Mathematics (6-12) (MTSED-BS)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Present (CIP#1101313111)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

*****THIS PROGRAM IS NO LONGER ACCEPTING STUDENTS. LAST ADMISSION TERM IS SPRING 2025 (0645)*****

This teacher preparation program combines mathematics content related material with practical, school-based experiences to prepare you for professional certification to teach mathematics in grades 6-12. You earn a Bachelor of Science in Mathematics Education (6-12) and will be well prepared to teach topics related to High School Mathematics.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSION REQUIREMENTS** **Credits** 60
**AA Degree**
**STATE MANDATED PREREQUISITES** **Credits** 0
**Grade of "C" or better required**

| | | |
|---|---|---|
| EDF 1005 | Introduction to Education | 3 |
| MAC 2311 | Calculus with Analytic Geometry I | 5 |
| MAC 2312 | Calculus with Analytic Geometry II | 5 |
| Elective in Mathematics (any MAC, MTG or MAS prefix course) | | 4 |

In addition to MAC 2311 and MAC 2312, students are required to complete 12 credits of college level math. Students who have earned a previous AA or bachelor's degree should consult an advisor for transcript review.

**MAJOR CORE COURSES** **Credits** 27
**Core Requirements (Complete 27 credits)**

| | | |
|---|---|---|
| EDF 3214 | Student Development and Learning Principles K-12 | 3 |
| EDF 4430 | Measurement, Evaluation and Assessment in Education K-12 | 3 |
| EDG 3410 | Classroom Management and Communication K-12 | 3 |
| EEX 3012 * | Nature and Needs of Exceptional Students K-12 | 3 |
| MAE 4940 * | Internship: Secondary Mathematics Education 6-12 | 12 |
| RED 4043 | Reading within the Disciplines 5-12 | 3 |

*School-based hours total 145 clinical clock hours plus a 15-week internship .

**MAJOR CORE COURSES** **Credits** 33
**Major Requirements (Complete 33 Credits)**

| | | |
|---|---|---|
| MAD 3107 | Discrete Mathematical Structures | 3 |
| MAE 3320 | Interactive Teaching Methods for Middle School Mathematics | 3 |
| MAE 3941 * | Interactive Teaching Methods for Middle School Mathematics Practicum | 1 |
| MAE 4330 | Instructional Methods in Secondary Mathematics with Technology | 3 |
| MAE 4642 | Assessment in Mathematics Education | 2 |
| MAE 4942 * | Instructional Methods in Secondary Mathematics with Technology Practicum | 1 |
| MAS 3105 | Linear Algebra with Applications | 4 |
| MAS 4203 | Number Theory | 3 |
| MAS 4301 | Introductory Abstract Algebra | 3 |
| MHF 4404 | History of Mathematics | 3 |
| MTG 3212 | Modern Geometries | 4 |
| STA 2023 | Elementary Statistics | 3 |

**MAJOR CORE COURSES** **Credits** 3
**ESOL Requirements (Complete 3 credits)**

| | | |
|---|---|---|
| TSL 3080 * | ESOL Issues: Principles and Practices I K - 12 | 3 |

Total: 123

**Program Learning Outcomes**

1. Teacher candidates will apply mathematical concepts to solve application and real-world problems. [SAE Math 6-12]
2. Teacher candidates will apply pedagogical knowledge for mathematics in planning and teaching. [FEAPs 1, 2, 3]
3. Teacher candidates will analyze data from multiple assessments to diagnose and address learners' academic needs in mathematics. [FEAPs 3, 5 ]
4. Teacher candidates will use appropriate technology to support learners' development in mathematics. [FEAPs 2, 3, 4 ]
5. Teacher candidates will engage in reflective practices to inform professional growth in teaching mathematics. [FEAPs 5, 6]

## Secondary English Education with Reading and ESOL Endorsement (ENGEDR-BS)

**Program Summary**

**Effective Catalog Term: Fall 2025 (655) through Present (CIP#1101313051)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This teacher preparation program combines college coursework related to English content, the pedagogy of teaching and practical, school-based experiences to prepare students for professional certification to teach English in grades 6-12. Graduates earn a Bachelor of Science in Secondary English Education and will be endorsed in both Reading and ESOL (English for Speakers of Other Languages).

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSION REQUIREMENTS** **Credits** 60
**AA DEGREE (60 credits)**

In addition to the State Mandated Prerequisite courses listed below, students are required to complete the general education (Associates of Arts Degree) that corresponds with their catalog year/requirement term. Students who have earned a previous AA or bachelor's degree should consult an advisor for transcript review.

**STATE MANDATED PREREQUISITES**
**The following courses are required & may be used as part of the General Education Requirements.**

| | | |
|---|---|---|
| EDF 1005 | Introduction to Education | 3 |
| ENC 1101 | Composition I | 3 |
| OR | | |
| ENC 1101H | Honors Composition I | 3 |
| ENC 1102 | Composition II | 3 |
| OR | | |
| ENC 1102H | Honors Composition II | 3 |
| SPC 1608 | Public Speaking | 3 |
| OR | | |
| SPC 1017 | Introduction to Speech Communication | 3 |
| OR | | |
| SPC 1017H | Honors Introduction to Speech Communication | 3 |
| *One course (3 credits) from the following:** | | |
| AML 1600 | African-American Literature | 3 |
| AML 2010 | American Literature I: to 1865 | 3 |
| AML 2010H | Honors American Literature I: to 1865 | 3 |
| ENL 2012 | British Literature I (to 1800) | 3 |
| LIT 2110 | World Literature I (Ancient World Through Renaissance) | 3 |
| LIT 2110H | Honors World Literature I (Ancient World through Renaissance) | 3 |

**Any course with prefix AML, ENL or LIT will satisfy requirement.

**MAJOR CORE COURSES** **Credits** 22
**Major Core Requirements**

Complete 22 credits

| | | |
|---|---|---|
| EDF 4430 | Measurement, Evaluation and Assessment in Education K-12 | 3 |
| EDG 3410 | Classroom Management and Communication K-12 | 3 |
| EEX 3012 | Nature and Needs of Exceptional Students K-12 | 3 |
| LAE 4942 | Internship: Secondary English Education | 12 |
| RED 4844 | Reading Practicum | 1 |

**MAJOR CORE COURSES** **Credits** 32
**Major Requirements**

Complete 32 credits

| | | |
|---|---|---|
| *Complete 2 courses (6 credits) from the AML course group* | | 6 |
| AML 3031 | American Literature to 1860 | 3 |
| OR | | |
| AML 3201 | Major Movements in American Literature since 1865 | 3 |
| OR | | |
| AML 3682 | American Multi-Ethnic Literature | 3 |
| ENL 4294 | Topics in British Literature since 1800 | 3 |
| LAE 3323 | Methods of Teaching English in the Middle School | 3 |
| LAE 3940 | Methods of Teaching English in the Middle School Practicum | 1 |
| LAE 4335 | Methods of Teaching English in the Secondary School | 3 |
| LAE 4941 | Methods of Teaching English in the Secondary School Practicum | 1 |
| LIN 4680 | Modern English Grammar | 3 |
| LIT 3103 | Literature of the World | 3 |
| RED 4043 | Reading within the Disciplines 5-12 | 3 |
| RED 4541 | Foundations of Reading Assessment | 3 |
| RED 4654 | Foundations and Applications of Differentiated Instruction | 3 |

**MAJOR CORE COURSES** **Credits** 6
**ESOL Requirements**

Complete 3 courses (6 credits)

| | | |
|---|---|---|
| TSL 3080 | ESOL Issues: Principles and Practices I K - 12 | 3 |
| TSL 4081 | ESOL Issues: Principles & Practices II K-12 | 3 |
| TSL 4939 | ESOL Capstone | 0 |

Total: 120

**Program Learning Outcomes**

1. Teacher Candidates will apply concepts in English language and literature.
2. Teacher Candidates will utilize effective instructional practices when teaching English language arts.
3. Teacher Candidates will develop students' writing and communication abilities as well as critical thinking and analytical skills.
4. Teacher Candidates will assess student learning in English language arts and use data to design instruction.
5. Teacher Candidates will create a positive, collaborative and inclusive classroom environment to include relevant stakeholders.

6. Teacher Candidates will demonstrate professional and ethical dispositions as defined by the Florida Educator Code of Ethics.

## Social and Human Services (HUS-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1451159901)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

Human services professionals are front-line workers in their community. They work in a variety of settings with people from diverse backgrounds to help improve their quality of life, assist and support them through difficult times, or access additional resources and services. They assist other workers, such as counselors, therapists, social workers, or case managers, and they help clients find benefits or community services. Our programs help students gain the needed skills to enter and succeed in this field. Our programs: • Prepare students for quick entry-level employment • Provide the educational/training hours necessary to obtain certain state certifications. • Offer major core courses taught by instructors with experience and expertise in their field. • Offer sub plan options for students to specialize in a preferred area of study. • Reflect an interdisciplinary approach to psychology, mental health, addictions, counseling, social work, sociology, community health and youth development • Emphasize interviewing/assessing, community outreach, addiction counseling, intervention techniques, knowledge of adaptive and maladaptive behavior patterns, communication skills, professional responsibility, and professional and ethical conduct.

**Estimated total program cost: $9,328.37**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| | |
|---|---|
| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 15 |
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |

| | |
|---|---|
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Natural Sciences - Core* | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | |
| AMH 2010 History of the United States I | 3 |
| AMH 2010H Honors History of the United States I | 3 |
| AMH 2020 History of the United States II | 3 |
| AMH 2020H Honors History of the US II | 3 |
| POS 2041 American National Government | 3 |
| POS 2041H Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 3
**Ethics (Select 3 credits)**

| | | |
|---|---|---|
| PHI 1600 | Introduction to Ethics | 3 |
| PHI 1600H | Honors Introduction to Ethics | 3 |

**MAJOR CORE COURSES** **Credits** 30
**Complete 30 credits**

Recommended Sequence of Major Courses:

| | | |
|---|---|---|
| HUS 1111 | Introduction to Intra and Inter-Personal Processes | 3 |
| SYG 2324 | Principles of Substance Abuse | 3 |
| HUS 1001 | Principles and Strategies for Human Services | 3 |
| HUS 1318 | Domestic Abuse and Family Violence | 1 |

| | | |
|---|---|---|
| HUS 2302 | Basic Counseling Skills | 3 |
| HUS 1320 | Theories and Foundations of Crisis Intervention | 1 |
| HUS 1450 | Dual Diagnosis I | 2 |
| HUS 2540 | Building Stronger Families and Communities | 3 |
| HUS 1445 | Practices for Working With Dysfunctional Family Systems | 2 |
| HUS 2550 | Social Services and the Disenfranchised | 3 |
| HUS 2200 | Dynamics of Groups and Group Counseling | 3 |
| HUS 2949 | Co-op Work Experience in Human Services | 3 |

**SUBPLAN** **Credits** 12

**Select ONE subplan from below**

**SUBPLAN CORE COURSES** **Credits** 0

**Generalist/Social Services (SOC) (Complete 9 credits)**

| | | |
|---|---|---|
| HUS 1013 | Strategies for Building Self Esteem | 3 |
| HUS 1530 | Survey Developmental Disabilities | 3 |
| HUS 2315 | Studies in Behavioral Modification | 3 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0

**Generalist/Social Services (SOC) (Complete 3 Credits)**

| | | |
|---|---|---|
| HUS 1019 | Introduction to Stress Management | 3 |
| HUS 1353 | Issues in Community Health Services | 3 |
| HUS 2403 | Abused Substances and their Effects | 3 |
| HUS 2541 | Working with Families in the Early Childhood Period | 3 |
| HUS 2542 | Working with Families in the Perinatal Period | 3 |
| HUS 1620 | Principles and Best Practices in Afterschool Programs | 3 |
| HUS 1640 | Foundations of Youth Development | 3 |
| HUS 2420 | Evaluation of Treatment Environments | 3 |
| HUS 2421 | Methods for Identification and Intervention in Substance Abuse | 3 |
| HUS 2428 | Treatment and Resources in Substance Abuse | 3 |

**SUBPLAN CORE COURSES** **Credits** 0

**Addiction Studies (ADS) (Complete 12 credits)**

| | | |
|---|---|---|
| HUS 1011 | Applied Assertiveness Skills | 2 |
| HUS 1431 | Issues in Addiction Prevention | 2 |
| HUS 1480 | HIV/AIDS & Drug Crisis | 2 |
| HUS 2428 | Treatment and Resources in Substance Abuse | 3 |
| | | 3 |
| HUS 2420 | Evaluation of Treatment Environments | 3 |
| OR | | |
| HUS 2421 | Methods for Identification and Intervention in Substance Abuse | 3 |

**SUBPLAN CORE COURSES** **Credits** 0

**Community Health Worker (CHW) (Complete 9 credits)**

| | | |
|---|---|---|
| HUS 1353 | Issues in Community Health Services | 3 |
| HUS 2542 | Working with Families in the Perinatal Period | 3 |
| HUS 2541 | Working with Families in the Early Childhood Period | 3 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0

**Community Health Worker (CHW) (Complete 3 Credits)**

| | | |
|---|---|---|
| HUS 1013 | Strategies for Building Self Esteem | 3 |
| HUS 1019 | Introduction to Stress Management | 3 |
| HUS 2403 | Abused Substances and their Effects | 3 |
| HUS 2315 | Studies in Behavioral Modification | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**Youth Development Professional (YDP) (Complete 9 credits)**

| | | |
|---|---|---|
| HUS 1620 | Principles and Best Practices in Afterschool Programs | 3 |
| HUS 1640 | Foundations of Youth Development | 3 |
| HUS 2315 | Studies in Behavioral Modification | 3 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0
**Youth Development Professional (YDP) (Complete 3 Credits)**

| | | |
|---|---|---|
| HUS 1013 | Strategies for Building Self Esteem | 3 |
| HUS 1019 | Introduction to Stress Management | 3 |
| HUS 1530 | Survey Developmental Disabilities | 3 |
| HUS 2403 | Abused Substances and their Effects | 3 |

Total: 60

**Program Learning Outcomes**

1. Apply the principles of social services provision to a variety of diverse settings within the human services delivery system and examine current social issues and human services trends and their impact on society, including mental/behavioral health, domestic violence, abuse, neglect, poverty, substance abuse and dependence.
2. Demonstrate a professional demeanor that uses interpersonal skills within the professional setting, including active listening, reflecting, clarifying, using open-ended questions, and responding accurately to verbal and nonverbal behavior.
3. Demonstrate case management skills, including documentation, assessment, treatment planning, crisis intervention and the ability to make appropriate referrals, identify and access human services resources, including on-line data bases, directories, and referral centers.
4. Employ the ability to adhere to professional, ethical standards in human services practice, including confidentiality, informed consent, self-disclosure, boundaries, and demonstrate sensitivity when working with diverse populations.
5. Demonstrate awareness of one's personal development, values, and personal challenges and strengths as they relate to one's personal and professional development and practice and understand the responsibility for ongoing professional growth and development.

## Supply Chain and Logistics (SCM-CT)

**Program Summary**

**Effective Catalog Term: Spring 2021 (585) through Present (CIP#0652020901)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate program prepares students to work in any aspect of supply chain, from warehousing to distribution to customer service. Supply Chain and Logistics is a critical function in any organization. Organizations in almost every industry depend on supply chain professionals to manage and oversee the processes that bring products and services to market and result in organizational success. Organizations must manage the flow of products, information, and funds in a synchronized fashion, which is increasingly becoming complex in today's global marketplace. The strategic teams of today are increasingly comprised of supply chain professionals who oversee and provide strategic direction to these various dynamics. As a result, they can often benefit from additional

education and credentials that will assist them in their current position or provide opportunities for advancement. St. Petersburg College's certificate in Supply Chain and Logistics can provide the opportunity to develop and sharpen the knowledge necessary to formulate solutions and the understanding of how organizations use supply chain networks to acquire, produce, and deliver goods and services to meet the needs of their growing and varied customer base.

**Estimated total program cost: $3,469.45**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18
**Complete 18 credits**

| | | |
|---|---|---|
| GEB 1011 | Introduction to Business | 3 |
| GEB 2214 | Business Communications | 3 |
| MAN 2582 | Introduction to Project Management | 3 |
| MAN 1590 | Supply Chain Practices | 3 |
| MAN 1500 | Supply Chain Operations | 3 |
| MAN 2571 | Supply Chain Planning | 3 |

Total: 18

**Program Learning Outcomes**

1. Demonstrate an understanding of personal development and professional networking.
2. Demonstrate an understanding of professional effectiveness.
3. Demonstrate an understanding of logistics, and supply chain management basics.
4. Demonstrate an understanding of transportation systems.
5. Demonstrate an understanding of warehousing and materials handling.
6. Demonstrate an understanding of packaging.
7. Demonstrate an understanding of inventory and supply planning.
8. Demonstrate an understanding of reverse logistics.
9. Demonstrate an understanding of procurement/contracting.
10. Demonstrate an understanding of production.
11. Demonstrate an understanding of product management.
12. Demonstrate an understanding of pricing.
13. Demonstrate an understanding of customer relationship management.
14. Demonstrate an understanding of management practices.
15. Demonstrate an understanding of supply chain risk management.
16. Demonstrate an understanding of project and quality management.
17. Demonstrate an understanding of domestic and global business law, ethics, and legal issues.
18. Demonstrate an understanding of writing and presenting documentation.
19. Demonstrate an understanding of the differences between a manufacturing and a services supply chain.

# Supply Chain Management (SCMGT-ATC)

**Program Summary**

**Effective Catalog Term: Spring 2021 (585) through Present (CIP#0652020566)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Supply Chain Management certificate program provides the knowledge and skills needed to pursue careers in the high growth supply chain and logistics industry. Supply chain management is a business function that ensures the efficient and effective management of the flow of goods, services and finances among organizations in the Global business environment. This program covers a range of concepts and applications which provide core knowledge and skills in quantitative operations management, supply chain concepts, procurement, International business. and risk assessment with consideration related to sustainability business management. Graduates find a wide range of job opportunities in supply chain, purchasing, logistics, production, distribution and operations. 1) The core courses listed below are in the suggested order of enrollment and completion.

**Estimated total program cost: $3,242.19**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 15
**Supply Chain Management - 15 Credits**

| | | |
|---|---|---|
| MAN 3504 | Operations Management | 3 |
| ETI 3647 | Supply Chain Management | 3 |
| MAN 4570 | International Procurement & Outsourcing | 3 |
| MAN 3503 | Managerial Risk Analysis and Decision Making | 3 |
| ISM 3011 | Management Information Systems | 3 |

**MAJOR ELECTIVE COURSES** **Credits** 3
**Select One - 3 Credits**

| | | |
|---|---|---|
| | | 3 |
| MAN 3600 | International Business | 3 |
| OR | | |
| MAN 3786 | Sustainability in the Built Environment | 3 |
| OR | | |

| | | |
|---|---|---|
| MAR 4413 | Sales and Customer Relationship Management | 3 |
| OR | | |
| MAN 4881 | Authority Influence and Projects | 3 |

Total: 18

**Program Learning Outcomes**

1. Analyze strategic, operational, and technological factors, including supply chain networks, outsourcing practices, and IT systems, that influence business decision-making and risk management.
2. Apply analytical tools and decision frameworks to evaluate supply chain performance, manage information flow, and optimize value delivery across diverse operating environments.
3. Describe core concepts in supply chain and logistics management, including customer demand, inventory, supplier relationships, and reverse logistics, to support enterprise-wide understanding.

## Surgical Services (SURG-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Summer 2026 (665) (CIP#1351090901)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

Surgical technologists or technicians are members of the surgical team during medical operations. They help prepare the operating room, check and/or assemble equipment, assist the surgeon during the operation, transfer patients to their rooms and clean the operating room. At SPC, surgical technology students get hands-on experience in an operating room lab. They are prepared with the skills needed to directly enter the workforce. Career options include certified surgical technologists in hospital operating rooms, delivery rooms, ambulatory care centers, physician offices and central sterilizing departments. Graduates of the program are eligible to take the National Certifying Examination for Surgical Technologists to become a Certified Surgical Technologist (CST). The exam is administered by the National Board of Surgical Technology and Surgical Assisting (NBSTSA). Upon successful completion of the exam, the NBSTSA awards a certificate recognizing the individual as nationally certified.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**AS GENERAL EDUCATION REQUIREMENTS** **Credits** 15
**AS Gen Ed**

| | |
|---|---|
| *Communications - Composition- Core* | 3 |

| | |
|---|---|
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Civic Literacy* | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | |
| AMH 2010 History of the United States I | 3 |
| AMH 2010H Honors History of the United States I | 3 |
| AMH 2020 History of the United States II | 3 |
| AMH 2020H Honors History of the US II | 3 |
| POS 2041 American National Government | 3 |
| POS 2041H Honors American National Government | 3 |

**SUPPORT COURSES: Anatomy & Physiology** **Credits** 10
**Complete 10 credits**

| | | |
|---|---|---|
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| BSC 2085L | Human Anatomy & Physiology Lab I | 1 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2086L | Human Anatomy & Physiology Laboratory II | 1 |

| | | |
|---|---|---|
| HSC 1531 | Medical Terminology I | 2 |

**MAJOR CORE COURSES** **Credits** 11
**1st Spring Term (Complete 11 credits)**

| | | |
|---|---|---|
| MCB 2004C | Microbiology for Health Professionals | 4 |
| STS 1302 | Introduction to Surgical Technology | 3 |
| STS 1302L | Introduction to Surgical Technology Lab | 2 |
| STS 1340 | Pharmacology and Anesthesia | 2 |

**MAJOR CORE COURSES** **Credits** 6
**1st Summer Term (Complete 6 credits)**

| | | |
|---|---|---|
| STS 1310 | Surgical Principles and Techniques | 4 |
| STS 1310L | Surgical Principles and Techniques Lab | 2 |

**MAJOR CORE COURSES** **Credits** 6
**1st Fall Term (Complete 6 credits)**

| | | |
|---|---|---|
| STS 2323 | Surgical Procedures I | 4 |
| STS 2323L | Surgical Procedures I Lab | 2 |

**MAJOR CORE COURSES** **Credits** 10
**2nd Spring Term (Complete 10 credits)**

| | | |
|---|---|---|
| STS 2324 | Surgical Procedures II | 4 |
| STS 2324L | Surgical Procedures II Lab | 1 |
| STS 2944C | Surgical Technology Clinic I | 5 |

**MAJOR CORE COURSES** **Credits** 6
**2nd Summer Term (Complete 6 credits)**

| | | |
|---|---|---|
| STS 2945C | Surgical Technology Clinic II | 4 |
| STS 2936 | Surgical Certification Symposium | 2 |

Total: 64

**Program Learning Outcomes**

1. Students will demonstrate understanding of principles of surgical aseptic technique in a clinical setting.
2. Students will demonstrate the skills and knowledge required for job acquisition (employability skills).
3. Students will demonstrate proper administration of drugs in the O.R. setting.

## Sustainability Management (SUSMGT-BAS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1100302991)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.**
**Note:** Students residing within 250 miles of an SPC campus will be required to present in-person at the end of their Capstone course and should plan accordingly.

Our courses help students understand the broad concepts and systems involved in sustainability initiatives. Students with this knowledge can be valuable contributors to the growing sustainability needs worldwide. Sustainability managers will be needed in many vital sectors including: Manufacturing, Construction, Government,

Military Contracting and International Business. Various Associate Degree programs are good foundational program feeds to the Sustainability BAS such as Engineering AS, Building Construction AS, Environmental Science AS, as well as the Hospitality and Tourism AS. Completion of various support courses or program courses may align or earn a certification or license.

Program Highlights •Energy and environmental management •Sustainable business strategies •Green construction and urban planning •Legal aspects of sustainability

**Estimated total program cost: $10,150.24**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSIONS COURSES** **Credits** 60
**60 credits in a related discipline with at least 15 General Education credits**
**LOWER DIVISION SUPPORT COURSES** **Credits** 0
**General Education (Complete 15 credits)**

Students who received an AS degree prior to entering Sustainability Management (SUSMGT-BAS) should complete 15 credits of General Education for their Lower Division Support Requirement. Relevant AS degrees include: Environmental Science Technology (ENVSC-AS), Building Construction & Design (ARCH-AS), Engineering Technology (ENG-AS) or Hospitality Management (HMGT-AS).

**STATE MANDATED PREREQUISITES** **Credits**
**State Mandated Prerequisites**

There are no State Mandated Prerequisites at this time.

**LOWER DIVISION SUPPORT COURSES** **Credits** 15
**Complete 15 credits from below**

Students who have earned an AA degree or other AS degree not noted above prior to entering SUSMGT-BAS should complete 15 credits from the following coursework.

| | | |
|---|---|---|
| ARC 2461C | Materials and Methods of Construction I | 3 |
| BCN 1592 | Energy Efficient Building Construction for Florida's Climate | 3 |
| BCN 1593 | A Building's Life | 2 |
| BCN 1596 | Environmental Technology for Building Construction | 2 |
| BCN 1597 | An Introduction to Solar Energy in Residential Construction | 3 |
| ENC 2210 | Technical Writing | 3 |

| | | |
|---|---|---|
| ETI 1622 | Intro to Lean Six Sigma | 3 |
| ETI 1628 | Process Improvement Teams | 3 |
| ETI 2610 | Six Sigma Methodology and Tools | 3 |
| ETI 2619 | Six Sigma Project Management | 3 |
| EVR 1001C | Introduction to Environmental Science | 3 |
| EVR 1016 | Hazardous Waste/ Materials Management | 3 |
| EVR 1263 | Urban Pollution | 3 |
| EVR 1328 | Natural Resources Conservation and Management | 3 |
| EVR 1357 | Wetland Resources | 3 |
| EVR 1858 | Environmental Regulation and Compliance | 3 |
| EVR 2892C | Environmental Sampling and Analysis I | 3 |
| HFT 1000 | Introduction to the Hospitality and Tourism Industry | 3 |
| HFT 1300 | Housekeeping Operations | 3 |
| HFT 2265 | Food Service Operations | 3 |
| MAN 1500 | Supply Chain Operations | 3 |
| MAN 1590 | Supply Chain Practices | 3 |
| MAN 2571 | Supply Chain Planning | 3 |

**MAJOR CORE COURSES** **Credits** 33
**Major Requirements (Complete 33 credits)**

| | | |
|---|---|---|
| BUL 3583 | Legal Aspects of Sustainability | 3 |
| GEB 3213 | Business Communication for Professional Effectiveness | 3 |
| MAN 3240 | Applied Organizational Behavior | 3 |
| MAN 3504 | Operations Management | 3 |
| MAN 3784 | Sustainability in the Natural Environment | 3 |
| MAN 3786 | Sustainability in the Built Environment | 3 |
| MAN 4061 | Corporate Social Responsibility | 3 |
| MAN 4781 | Sustainable Business Strategies | 3 |
| MAN 4783 | Sustainable Budget Management Triple Bottom Line Analysis | 3 |
| MAN 4787 | Energy & Environmental Techniques | 3 |
| MAR 3802 | Marketing Management | 3 |

**MAJOR CORE COURSES** **Credits** 3
**REQUIRED FINAL COURSE - Last Semester for All Students (Complete 3 credits)**

| | | |
|---|---|---|
| MAN 4902 | Senior Capstone Project in Sustainability Management | 3 |

**MAJOR ELECTIVE COURSES** **Credits** 9
**(Select 9 credits)**

| | | |
|---|---|---|
| ETI 3647 | Supply Chain Management | 3 |
| FIN 3400 * | Introduction to Financial Management | 3 |
| FIN 3403 | Financial Management | 3 |
| MAN 3503 | Managerial Risk Analysis and Decision Making | 3 |
| MAN 3802 | Principles of Entrepreneurship | 3 |
| MAN 4583 | Project Management | 3 |
| MAN 4741 | Innovation, Change and Agile Projects | 3 |
| MAN 4940 | Internship | 3 |
| PAD 4232 | Grant Administration & Resource Development | 3 |

*If plan to pursue an MBA, FIN 3403 is recommended.

Total: 120

**Program Learning Outcomes**

1. Develop innovative business strategies that improve the triple bottom line.
2. Evaluate business processes to ensure both legal compliance and appropriate implementation of sustainable practices.
3. Develop organizational change methods that promote achievement of corporate social responsibility goals.

## Sustainable Construction Technology (BCNST-CT)

**Program Summary**

**Effective Catalog Term: Fall 2018 (550) through Present (CIP#0630330106)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This Certificate provides the student with the supervisory and sustainability training necessary to assist contractors and subcontractors in the construction industry.

**Estimated total program cost: $2,637.38**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 11
**Complete 11 credits**

| | | |
|---|---|---|
| ARC 2461C | Materials and Methods of Construction I | 3 |
| BCN 1596 | Environmental Technology for Building Construction | 2 |
| BCN 1597 | An Introduction to Solar Energy in Residential Construction | 3 |
| BCN 1592 | Energy Efficient Building Construction for Florida's Climate | 3 |

**MAJOR ELECTIVE COURSES** **Credits** 3
**Work Experience (Select 3 credits)**

| | | |
|---|---|---|
| BCN 1940 | Construction Practicum | 3 |
| BCN 2949 | Co-op Work Experience | 1-3 |

**MAJOR ELECTIVE COURSES** **Credits** 5
**Electives (Select 5 credits)**

| | | |
|---|---|---|
| BCN 1050 | Building Specifications | 1 |
| BCN 1251C | Construction Drawing | 3 |
| BCN 1272 | Blueprint Reading | 2 |
| BCN 2068 | The A.D.A.: Primer for Contractors | 1 |
| BCN 2732 | Occupational Safety and Health (OSHA) Standards for the Construction Industry | 1 |
| BCT 1760 | Building Codes | 2 |
| BCT 1770 | Construction Estimating | 3 |

Total: 19

**Program Learning Outcomes**

1. Demonstrate appropriate communication skills.
2. Identify, select, apply and maintain drafting, drawing and graphic materials and equipment, including both table top drafting and Computer Aided Drafting (CAD).
3. Identify construction materials and their application.
4. Interpret construction drawings and documents.
5. Understand and apply fundamental principles of architectural and engineering design.
6. Interpret and apply building code regulations and product technical literature.
7. Produce architectural working drawings using both table top drafting and CAD.
8. Prepare subcontractor shop drawings using both table top drafting and CAD.
9. Estimate basic quantities of materials.
10. Demonstrate appropriate math skills.
11. Understand sustainability issues related to the design, construction and maintenance of the built environment.

## Technology Development and Management (TMGT-BAS)

**Program Summary**

**Effective Catalog Term: Fall 2023 (625) through Present (CIP#1101110051)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The Technology Development and Management bachelor's degree gives students a solid credential in the evolving field of technology management. Students will receive a balance of technology and management education to make you a front-runner in today's competitive environment. You will also have the opportunity to specialize in one of five fields: Data Science, Cybersecurity, Software Development, Project Management, or Cloud Computing Management. Through state-of-the-art delivery systems, we help you to achieve your goals as a manager, improve productivity in your organization and become a strong and effective leader.

**Estimated total program cost: $9,994.2**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**ADMISSIONS COURSES** **Credits** 60
**60 credits in a related discipline with at least 15 General Education credits**
**GENERAL EDUCATION COURSES** **Credits** 15
**Additional General Education Courses**

| | |
|---|---|
| Enhanced World View Requirements* | 0 |
| A. Communications * | 9 |
| B. Humanities/Fine Arts* | 6 |
| C. Mathematics | 6 |
| D. Natural & Physical Sciences | 6-7 |
| E. Social & Behavioral Sciences* | 6 |
| F. Ethics | 3 |
| G. Computer/Information Literacy Competency (see catalog for details) | 0 |

**STATE MANDATED PREREQUISITES** **Credits**
**State Mandated Prerequisites**

There are no State Mandated Prerequisites at this time.

**MAJOR CORE COURSES** **Credits** 30
**(30 credits) Grade of "C" or better required**

| | | |
|---|---|---|
| BUL 3564 | Legal Aspects of Managing Technology | 3 |
| GEB 3213 | Business Communication for Professional Effectiveness | 3 |
| MAN 3303 | Management & Leadership Practices | 3 |
| CIS 3083 | Cloud Computing Foundations | 3 |
| ISM 3011 | Management Information Systems | 3 |
| ISM 3232 | Applied Systems Analysis | 3 |
| ISM 4113 | Software Design Methodologies | 3 |
| ISM 3212 | Database Management & Analysis | 3 |
| ISM 4361 | IT Services Management | 3 |
| ISM 4915 | Senior Capstone Project | 3 |

## AND Select ONE of the following Subplans:

**SUBPLAN CORE COURSES** **Credits** 15
**SUBPLAN: DATA SCIENCE (DATAANALYT) (15 Credits) Grade of "C" or better required**

| | | |
|---|---|---|
| ISM 4545 | Data Analytics Technologies | 3 |
| ISM 4547 | Data Analytics Management | 3 |
| CTS 4454 | Business Intelligence and Data Mining | 3 |
| CAP 4770 | Principles of Data Mining | 3 |
| ISM 4548 | Web Analytics | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**SUBPLAN: CYBERSECURITY MANAGEMENT (ISA) ( (15 credits) grade of "C" or better required**

| | | |
|---|---|---|
| ISM 4323 | Security Essentials | 3 |
| ISM 4320 | Core Security Principles | 3 |
| ISM 4324 | Applications in Information Security | 3 |
| ISM 4330 | Information Security Policy Administration and Management | 3 |
| ISM 4321 | Strategic Cyber Security Enforcement | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**SUBPLAN: SOFTWARE DEVELOPMENT (SFTDEV) (15 credits) Grade of "C" or better required**

| | | |
|---|---|---|
| COP 4504 | Advanced Software Programming | 3 |
| COP 3035 | Intermediate Computer Programming | 3 |
| CEN 4031 | Advanced Program Development Frameworks | 3 |
| COP 4533 | Algorithmic Design and Development | 3 |
| CEN 4722 | Human Computer Interfaces | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**SUBPLAN: PROJECT MANAGEMENT (PM) (15 credits) Grade of "C" or better required**

| | | |
|---|---|---|
| MAN 4583 | Project Management | 3 |
| MAN 4741 | Innovation, Change and Agile Projects | 3 |
| MAN 4881 | Authority Influence and Projects | 3 |
| MAN 4883 | Project Management Methodology in Specialization | 3 |
| MAN 4885 | Complex and Advanced Projects | 3 |

**SUBPLAN CORE COURSES** **Credits** 0
**Cloud Computing Management (CCM ) (15 credits) Grade of "C" or better required**

| | | |
|---|---|---|
| CNT 3010 | Foundations: Operating Systems & Networks | 3 |
| CNT 4425 | Cloud Architectures | 3 |
| CNT 3421 | Securing the Cloud | 3 |
| ISM 4263 | Cloud Solutions | 3 |
| CIS 4651 | Cloud Deployment and Operations | 3 |

Total: 120

**Program Learning Outcomes**

1. Recommend contemporary technology resources that promote effective teamwork, communication, and company management.
2. Develop value-added information technology projects that improve strategic business processes across an organization.
3. Summarize and explain a real-world experience with a major-related capstone.

Training and Development (TRNDEV-ATC)

**Program Summary**

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18
**Complete 18 credits**

| | | |
|---|---|---|
| EDG 3661 | Adult Learning Theory & Curriculum Development | 3 |
| EME 4673 | Foundations of Instructional Design | 3 |
| EME 4048 | Designing for Learning Platforms | 3 |
| EME 4610 | Emerging Trends in eLearning | 3 |
| EME 4312 | Educational Technology for 21st Century Teaching | 3 |
| EME 4232 | Intermediate Applications of Technology for Educators | 3 |

Total: 18

Veterinary Assisting Certificate (VETAST-CT)

Summary

Program Requirements

**MAJOR CORE COURSES** **Credits** 14
**Complete 14 credits.**

| | | |
|---|---|---|
| ATE 1110 | Animal Anatomy | 3 |
| ATE 1110L | Animal Anatomy Lab | 1 |
| ATE 1311L | Veterinary Office Procedures | 1 |
| ATE 1412C | Introduction to Dental Techniques | 1 |
| ATE 1650L | Veterinary Clinical Practice I | 1 |
| ATE 1654L | Veterinary Clinic Practice II | 1 |
| ATE 1741 | Veterinary Med Terminology | 1 |
| ATE 1943 | Veterinary Work Practicum I | 1 |
| ATE 2611 | Animal Anesthesia | 3 |
| ATE 2656L | Large Animal Clinical and Nursing Skills Lab | 1 |

Total: 14

## Veterinary Practice Management (VETTC-CT)

**Program Summary**

**Effective Catalog Term: Fall 2020 (580) through Present (CIP#5501830100)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

The veterinary hospital management courses identified in this certificate program will meet the educational requirements for the Veterinary Hospital Managers Association examination for Certified Veterinary Practice Managers. The 8 courses will cover the areas of personnel, accounting and finance, marketing, legal requirements and budgeting and planning.

**Estimated total program cost: $3,178.9**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 21 |
|---|---|---|
| ATE 3052 | Veterinary Technology: From Success to Safety | 3 |
| ATE 3316 | Finance for the Veterinary Manager | 3 |
| ATE 3344 | Supervision in the Veterinary Hospital | 3 |
| ATE 3515 | Legal & Ethical Issues in Veterinary Technology | 3 |
| ATE 4317 | Veterinary Hospital Management | 3 |
| ATE 4319 | Veterinary Hospital Marketing | 3 |
| ATE 4854 | Leadership in Veterinary Technology | 3 |

Total: 21

**Program Learning Outcomes**

1. Identify distinctions between the veterinary technology profession in other countries and the profession in the United States.
2. Communicate effectively as a veterinary professional in oral and written form.
3. Solve practice management concerns through the application of content knowledge and demonstrating leadership.

## Veterinary Technology (VETTC-AS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1301830100)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**FACE-TO-FACE PROGRAM BEGINS IN AUGUST AND JANUARY. This program is also offered as a Fully Online program, beginning in August, January, and May.** All students entering the Veterinary Technology program will be set on a path to first complete the Veterinary Assisting Certificate (available Spring 2026). Admissions to the Veterinary Technology program is required to be eligible for the Veterinary Assisting Certificate. Before entering the first term of the Veterinary Technology "program courses", all students must have completed at least 15 of the 21 credits of the required Veterinary Technology general education and support courses including composition, mathematics, and natural science. Students may take the general education and support courses at any regionally accredited college or university, or they may complete them through St. Petersburg College campus or distance education courses. The general education and/or support courses do not have to be taken in the order listed. Applicants must have worked or volunteered in a veterinary hospital at least 40 hours prior to applying for admission to fulfill the clinical observation requirement. Candidates will also complete the Health Programs Application before they will be considered for acceptance into the Veterinary Technology Program. Please see a counselor and/or advisor.

Campus Students must also be in a veterinary hospital on an average of 4-5 hours per week for a total of 100 hours and online students on average 20-25 hours per week for a total of 280 hours over 12 weeks of the semester for they are enrolled in the veterinary technology program.

**Estimated total program cost: $19,573.9**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | **Credits** 18 |
|---|---|
| *Communications - Composition- Core* | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | 3 |
| *Communications - Speech* | 3 |
| Complete 3 credits from the approved General Education Speech coursework . Minimum grade of "C" required. | 3 |
| *Social and Behavioral Sciences- Core* | 3 |
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or or AMH 2010 or AMH 2010H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | 3 |
| *Humanities and Fine Arts-Core* | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | 3 |
| *Mathematics-Core* | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | 3 |
| *Ethics* | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | 3 |
| *Computer/Information Literacy Competency* | 0 |
| Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) OR by successful completion of one of the approved Computer/ Information Literacy Competency courses. No minimum credits required. | 0 |
| *Enhanced World View* | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | 0 |

| | | |
|---|---|---|
| *Civic Literacy* | | 0 |

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010 or AMH 2010H in **Fall 2024 or thereafter** will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

**SUPPORT COURSES** **Credits** 3

**Natural Science Core with Lab Select 3 credits**

| | | |
|---|---|---|
| AST 1002 | Introduction to Astronomy | 3 |
| BSC 1005C | Biological Sciences with Lab | 3 |
| BSC 2010 | Biology I Cellular Processes | 3 |
| BSC 2010CH | Honors Biology I Cellular Processes with Laboratory | 4 |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| CHM 2045 | General Chemistry I | 3 |
| ESC 1000C | Earth Science | 3 |
| EVR 1001C | Introduction to Environmental Science | 3 |
| GLY 2010 * | Physical Geology | 3 |
| OCE 2001 * | Introduction to Oceanography | 3 |
| PHY 1053 | General Physics I | 3 |
| PHY 2048 | Physics I | 3 |

*Effective Fall 2024 and thereafter, students who successfully complete GLY 2010 or OCE 2001 will satisfy the Natural Sciences Core requirement. If completed before Fall 2024, the course will satisfy the Natural Sciences Elective requirement.

**MAJOR CORE COURSES** **Credits** 13

**First Term in Program**

| | | |
|---|---|---|
| ATE 1110 | Animal Anatomy | 3 |
| ATE 1110L | Animal Anatomy Lab | 1 |
| ATE 1311L | Veterinary Office Procedures | 1 |
| ATE 1650L | Veterinary Clinical Practice I | 1 |
| ATE 1943 | Veterinary Work Practicum I | 1 |
| ATE 1741 | Veterinary Med Terminology | 1 |
| ATE 2050C | Small Animal Behavior | 2 |
| ATE 2631 | Animal Nursing | 3 |

**MAJOR CORE COURSES** **Credits** 14

**Second Term in Program**

| | | |
|---|---|---|
| ATE 1636 | Large Animal Clinical & Nursing Skills | 2 |
| ATE 1654L | Veterinary Clinic Practice II | 1 |

| | | |
|---|---|---|
| ATE 1944 | Veterinary Work Practicum II | 1 |
| ATE 1211 | Animal Physiology | 3 |
| ATE 2656L | Large Animal Clinical and Nursing Skills Lab | 1 |
| ATE 2722L | Avian and Exotic Pet Medicine | 2 |
| ATE 2611 | Animal Anesthesia | 3 |
| ATE 1412C | Introduction to Dental Techniques | 1 |

**MAJOR CORE COURSES** **Credits** 12
**Third Term in Program**

| | | |
|---|---|---|
| ATE 2634 | Animal Pharmacology | 3 |
| ATE 2638 | Animal Lab Procedures I | 3 |
| ATE 2638L | Animal Lab Procedure Lab | 2 |
| ATE 2651L | Animal Nursing & Medicine Lab I | 2 |
| ATE 2945 | Veterinary Work Practicum III | 1 |
| ATE 2661 | Large Animal Diseases | 1 |

**MAJOR CORE COURSES** **Credits** 13
**Fourth Term in Program**

| | | |
|---|---|---|
| ATE 1671L | Laboratory Animal Medicine | 1 |
| ATE 2612 | Animal Medicine | 3 |
| ATE 2639 | Animal Lab Procedures II | 3 |
| ATE 2639L | Animal Lab Procedures Lab II | 2 |
| ATE 2653L | Animal Nursing & Medicine Laboratory II | 2 |
| ATE 2710 | Animal Emergency Medicine | 1 |
| ATE 2946 | Veterinary Work Practicum IV | 1 |

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**DISTANCE EDUCATION PROGRAM BEGINS IN AUGUST, JANUARY AND MAY**

The Distance Education Program is designed for students who cannot commute to campus. The credit earned by distance education is the same as credit earned on campus. Students may combine distance education courses with on-site courses in order to better accommodate work and family obligations. The difference between local and distance learning is in the method of delivery, not in the content or the desired outcomes.

Before entering the first semester of the Distance Veterinary Technology "program courses," all students must have completed at least 15 of the 21 credits of general education and support courses and be computer literate. Students may take the general education and support courses at any regionally accredited college or university, or they may complete them through St. Petersburg College campus or distance education courses.

Applicants must have worked or volunteered in a veterinary hospital at least 40 hours prior to applying for admission to fulfill requirements. Students must also be in a veterinary hospital on an average of 20 hours per week for a total of 280 hours over 12 weeks of the semester for they are enrolled in the distance program. Students must master over 200 tasks and skills, resulting in the need to be in a hospital where there is the opportunity, equipment, supplies, and expertise to be instructed and learn these tasks and skills.

Candidates will also complete the Health Programs Application form and the Veterinary Hospital Observation and Discussion form before they will be considered for acceptance into the Veterinary Technology Program. Please contact a counselor and/or advisor.

The Veterinary Technology Distance Education Program is based on the following assumptions. Students have:

- completed at least 15 of the 21 credits of the general education and support courses prior to admission.
- the initiative, resourcefulness and perseverance to work independently.
- a solid relationship with an employer veterinarian.

- experience using a computer and have access to a computer and the Internet.
- subscribed to an Internet service.

The complete distance program application includes the following:

1. The college application and the $40 fee for new students at SPC.
2. Health Programs Application form.
3. Hospital Observation and Discussion form.
4. Transcripts from your high school (if no college degree) and any colleges you have attended sent directly to SPC from each school.

Applicants are considered as soon as their file is complete.

Distance Program – Veterinary Technology Courses are designed to be completed in the specific sequence below. Please contact the program director for advice if you wish to make adjustments.

**MAJOR CORE COURSES**
**Term by Term Schedule**

**Term 1: Complete 7 credits**

| | | |
|---|---|---|
| ATE 1110 | Animal Anatomy | 3 |
| ATE 1110L | Animal Anatomy Lab | 1 |
| ATE 1741 | Veterinary Med Terminology | 1 |
| ATE 2050C | Small Animal Behavior | 2 |

**Term 2: Complete 6 credits**

| | | |
|---|---|---|
| ATE 1311L | Veterinary Office Procedures | 1 |
| ATE 1650L | Veterinary Clinical Practice I | 1 |
| ATE 1943 | Veterinary Work Practicum I | 1 |
| ATE 2631 | Animal Nursing | 3 |

**Term 3: Complete 7 credits**

| | | |
|---|---|---|
| ATE 1211 | Animal Physiology | 3 |
| ATE 1636 | Large Animal Clinical & Nursing Skills | 2 |
| ATE 1654L | Veterinary Clinic Practice II | 1 |
| ATE 1944 | Veterinary Work Practicum II | 1 |

**Term 4: Complete 7 credits**

| | | |
|---|---|---|
| ATE 1412C | Introduction to Dental Techniques | 1 |
| ATE 2611 | Animal Anesthesia | 3 |
| ATE 2656L | Large Animal Clinical and Nursing Skills Lab | 1 |
| ATE 2722L | Avian and Exotic Pet Medicine | 2 |

**Term 5: Complete 6 credits**

| | | |
|---|---|---|
| ATE 2651L | Animal Nursing & Medicine Lab I | 2 |
| ATE 2945 | Veterinary Work Practicum III | 1 |
| ATE 2634 | Animal Pharmacology | 3 |

**Term 6: Complete 6 credits**

| | | |
|---|---|---|
| ATE 2653L | Animal Nursing & Medicine Laboratory II | 2 |
| ATE 2710 | Animal Emergency Medicine | 1 |
| ATE 2612 | Animal Medicine | 3 |

**Term 7: Complete 6 credits**

| | | |
|---|---|---|
| ATE 2638 | Animal Lab Procedures I | 3 |
| ATE 2638L | Animal Lab Procedure Lab | 2 |
| ATE 2661 | Large Animal Diseases | 1 |

**Term 8: Complete 7 credits**

| | | |
|---|---|---|
| ATE 1671L | Laboratory Animal Medicine | 1 |
| ATE 2639 | Animal Lab Procedures II | 3 |
| ATE 2639L | Animal Lab Procedures Lab II | 2 |
| ATE 2946 | Veterinary Work Practicum IV | 1 |

Total: 73

**Program Learning Outcomes**

1. The student will recognize the principles of pharmacology, classes of drugs, and be familiar with the pharmacology of commonly used medications.
2. The student will understand sterile technique, surgical assisting, and be familiar with the characteristics of common surgical instruments.
3. The student will know the procedures for and be able to perform common clinical laboratory tests such as blood counts, serum chemistry, and urinalysis.
4. The student will understand nursing practices and be able to use intravenous catheters, urinary catheters, and bandaging materials properly.
5. The student will understand and practice radiation safety while taking radiographs, and will be able to recognize and correct errors in technique to produce diagnostic radiographs.
6. The student will understand anesthetic agents and their administration, the monitoring of anesthetized patients, and safe recovery.
7. The student will recognize the principles of dentistry and become familiar with the procedures associated with dentistry in veterinary medicine.
8. The student will utilize the knowledge as it applies to pain management procedures and analgesia.
9. The student will utilize the knowledge to perform emergency and critical care nursing procedures.
10. The student performance on the Veterinary Technician National Exam will demonstrate that they have an overall understanding of pharmacology; surgical assisting and preparation; clinical laboratory techniques; animal care and nursing; diagnostic imaging; analgesia and anesthesia and dentistry.

## Veterinary Technology (VETTC-BAS)

**Program Summary**

**Effective Catalog Term: Fall 2024 (640) through Present (CIP#1100183011)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** The Veterinary Technology (VETTC-BAS) program provides a terminal degree opportunity for veterinary technicians. This program offers specialized tracks in clinical techniques and hospital management and is designed to build on the technical skills acquired in the AS Veterinary Technology program. The curriculum provides in-depth knowledge in subject areas critical for veterinary technicians to be highly capable and contributing members of the profession.

**Estimated total program cost: $8,761.35**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses

- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **GENERAL EDUCATION REQUIREMENT**<br>**AA Degree transferrable coursework: 37 credits** | | **Credits** 37 |
|---|---|---|
| | | 37 |

| **STATE MANDATED PREREQUISITES**<br>**State Mandated Prerequisites** | | **Credits** |
|---|---|---|
| There are no State Mandated Prerequisites at this time. | | |

| **ADMISSIONS COURSES**<br>**Lower Division Veterinary Technology tranferrable coursework: 41 credits** | | **Credits** 41 |
|---|---|---|
| | | 41 |

| **MAJOR CORE COURSES**<br>**CORE COURSES (Complete 18 credits)** | | **Credits** 18 |
|---|---|---|
| ATE 3052 * | Veterinary Technology: From Success to Safety | 3 |
| ATE 3515 | Legal & Ethical Issues in Veterinary Technology | 3 |
| ATE 3615 | Veterinary Pharmacology | 3 |
| ATE 4854 | Leadership in Veterinary Technology | 3 |
| ATE 4940 | Veterinary Technology Capstone Practicum | 6 |

*ATE 3052 has replaced ATE 3100, ATE 3200 and ATE 3744.

| **SUBPLAN**<br>**Select ONE subplan from below (Complete 24 credits)** | | **Credits** 24 |
|---|---|---|
| **SUBPLAN CORE COURSES**<br>**A. CLINICAL TRACK (Complete 12 credits)** | | **Credits** 0 |
| ATE 3605 | Small Animal Nutrition | 3 |
| ATE 3617 | Companion Animal Diseases | 3 |
| ATE 4701 | One Health and the Veterinary Technologist | 3 |
| ATE 4637 | Advanced Veterinary Nursing: Patient Care for Hospice, Hospitalized and Surgical Patients | 3 |

| **SUBPLAN ELECTIVE COURSES**<br>**A. CLINICAL TRACK (Select 12 credits)** | | **Credits** 0 |
|---|---|---|
| ANS 3006 | Introduction to Animal Science | 3 |

| | | |
|---|---|---|
| ANS 3440 | Principles of Animal Nutrition | 3 |
| ATE 3316 | Finance for the Veterinary Manager | 3 |
| ATE 3344 | Supervision in the Veterinary Hospital | 3 |
| ATE 3410 | Dental Techniques in Veterinary Technology | 3 |
| ATE 3510 | Understanding the Human-Animal Bond | 3 |
| ATE 3621 * | Integrative Veterinary Nursing | 3 |
| ATE 3803 | Teaching Techniques for Veterinary Technicians | 3 |
| ATE 4051 | Advanced Veterinary Behavior | 3 |
| ATE 4317 | Veterinary Hospital Management | 3 |
| ATE 4319 | Veterinary Hospital Marketing | 3 |
| ATE 4711 | Emergency and Critical Care | 3 |
| ATE 4850 | Communication & Professionalism in Veterinary Nursing | 3 |

*ATE 3621 updated per SCNS; this course previously had a course number of ATE 3601.

**SUBPLAN CORE COURSES** **Credits** 0
**B. HOSPITAL MANAGEMENT TRACK (Complete 12 credits)**

| | | |
|---|---|---|
| ATE 3316 | Finance for the Veterinary Manager | 3 |
| ATE 3344 | Supervision in the Veterinary Hospital | 3 |
| ATE 4317 | Veterinary Hospital Management | 3 |
| ATE 4850 | Communication & Professionalism in Veterinary Nursing | 3 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0
**B. HOSPITAL MANAGEMENT TRACK (Select 12 credits)**

| | | |
|---|---|---|
| ANS 3006 | Introduction to Animal Science | 3 |
| ANS 3440 | Principles of Animal Nutrition | 3 |
| ATE 3410 | Dental Techniques in Veterinary Technology | 3 |
| ATE 3510 | Understanding the Human-Animal Bond | 3 |
| ATE 3605 | Small Animal Nutrition | 3 |
| ATE 3616 | Small Animal Nursing | 3 |
| ATE 3617 | Companion Animal Diseases | 3 |
| ATE 3621 * | Integrative Veterinary Nursing | 3 |
| ATE 3658 | Anesthesia and Surgical Nursing | 3 |
| ATE 3803 | Teaching Techniques for Veterinary Technicians | 3 |
| ATE 4051 | Advanced Veterinary Behavior | 3 |
| ATE 4319 | Veterinary Hospital Marketing | 3 |
| ATE 4711 | Emergency and Critical Care | 3 |

*ATE 3621 updated per SCNS; this course previously had a course number of ATE 3601.

**SUBPLAN CORE COURSES** **Credits** 0
**C. COMBINED CLINICAL AND HOSPITAL MANAGEMENT TRACK (Select 24 credits)**
**SUBPLAN ELECTIVE COURSES** **Credits** 0
**C. COMBINED TRACK: Clinical Electives (Select 6 credits)**

| | | |
|---|---|---|
| ATE 3605 | Small Animal Nutrition | 3 |

| | | |
|---|---|---|
| ATE 3617 | Companion Animal Diseases | 3 |
| ATE 4701 | One Health and the Veterinary Technologist | 3 |
| ATE 4637 | Advanced Veterinary Nursing: Patient Care for Hospice, Hospitalized and Surgical Patients | 3 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0

**C. COMBINED TRACK: Hospital Management Electives (Select 6 credits)**

| | | |
|---|---|---|
| ATE 3316 | Finance for the Veterinary Manager | 3 |
| ATE 3344 | Supervision in the Veterinary Hospital | 3 |
| ATE 4317 | Veterinary Hospital Management | 3 |
| ATE 4850 | Communication & Professionalism in Veterinary Nursing | 3 |

**SUBPLAN ELECTIVE COURSES** **Credits** 0

**C. COMBINED TRACK: General Electives (Select 12 credits)**

| | | |
|---|---|---|
| ANS 3006 | Introduction to Animal Science | 3 |
| ANS 3440 | Principles of Animal Nutrition | 3 |
| ATE 3316 | Finance for the Veterinary Manager | 3 |
| ATE 3344 | Supervision in the Veterinary Hospital | 3 |
| ATE 3410 | Dental Techniques in Veterinary Technology | 3 |
| ATE 3510 | Understanding the Human-Animal Bond | 3 |
| ATE 3605 | Small Animal Nutrition | 3 |
| ATE 3617 | Companion Animal Diseases | 3 |
| ATE 3621 * | Integrative Veterinary Nursing | 3 |
| ATE 3803 | Teaching Techniques for Veterinary Technicians | 3 |
| ATE 4051 | Advanced Veterinary Behavior | 3 |
| ATE 4711 | Emergency and Critical Care | 3 |
| ATE 4317 | Veterinary Hospital Management | 3 |
| ATE 4319 | Veterinary Hospital Marketing | 3 |
| ATE 4850 | Communication & Professionalism in Veterinary Nursing | 3 |
| ATE 4701 | One Health and the Veterinary Technologist | 3 |
| ATE 4637 | Advanced Veterinary Nursing: Patient Care for Hospice, Hospitalized and Surgical Patients | 3 |

*ATE 3621 updated per SCNS; this course previously had a course number of ATE 3601.

Total: 120

**Program Learning Outcomes**

1. Interpret veterinary research, pharmacological documents, and hospital safety protocols.
2. Identify distinctions between the veterinary technology profession in other countries and the profession in the United States.
3. Serve as a change agent in the veterinary technology profession by applying critical thinking skills.
4. Distinguish between leadership in patient care and supporting patient care through the synthesis of veterinary nursing plans.
5. Communicate effectively as a veterinary professional in oral and written form.
6. Solve practice management concerns through the application of content knowledge and demonstrating leadership.

## Water Quality Technician (WQT-CT)

**Program Summary**

**Program Requirements**

| **MAJOR CORE COURSES** | | **Credits** 12 |
|---|---|---|
| EVR 1001C | Introduction to Environmental Science | 3 |
| EVR 1263 * | Urban Pollution | 3 |
| EVR 1357 | Wetland Resources | 3 |
| EVR 2892C * | Environmental Sampling and Analysis I | 3 |

*CHM 1025/L with a minimum grade of 'C' or permission of the program is required to enroll in this course.

Total: 12

## Web Development (WEBSDM-AS)

**Program Summary**

**Effective Catalog Term: Fall 2022 (610) through Summer 2024 (635) (CIP#1511100400)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

**This program is offered as a Fully Online program.** This program provides the student with a foundation in the building blocks of the Web such as HTML, CSS and JavaScript. Students will learn the skills necessary to build in demand Enterprise Web Applications such as database design, local area networking, UNIX, and GIT. With this degree, students will be prepared for a career in Full Stack Web Development.

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

| **AS GENERAL EDUCATION REQUIREMENTS**<br>**AS Gen Ed** | | **Credits** 18 |
|---|---|---|
| *Communications - Composition- Core* | | 3 |
| Complete 3 credits from the approved General Education Composition I coursework. Minimum grade of "C" required. This requirement must be completed within the first 24 credits of coursework toward the AS degree. | | 3 |
| *Social and Behavioral Sciences- Core* | | 3 |

| | | |
|---|---|---|
| Complete 3 credits from the approved General Education Social and Behavioral Sciences coursework. Minimum grade of "C" required. Completing POS 2041 or POS 2041H or AMH 2020 or AMH 2020H will satisfy the **course** component of the Civic Literacy Requirement. | | 3 |
| *Humanities and Fine Arts-Core* | | 3 |
| Complete 3 credits from the approved General Education Humanities and Fine Arts coursework. Minimum grade of "C" required. | | 3 |
| *Mathematics-Core* | | 3 |
| Complete 3 credits from the approved General Education Mathematics coursework. Minimum grade of "C" required. | | 3 |
| *Natural Sciences - Core* | | 3 |
| Complete 3 credits from the approved General Education Science coursework. Minimum grade of "C" required. | | 3 |
| *Ethics* | | 3 |
| Complete 3 credits from the approved General Education Ethics coursework. Minimum grade of "C" required. | | 3 |
| *Enhanced World View* | | 0 |
| Complete at least one 3-credit course intended to enhance the student's world view in light of an increasingly globalized economy. Minimum grade of "C" required. In some cases, this course may also be used to satisfy another General Education Requirement. | | 0 |
| *Civic Literacy* | | 0 |
| Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework below (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code. | | |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |

**SUPPORT COURSES** **Credits** 3

| | | |
|---|---|---|
| Completion of this requirement satisfies the General Education Computer Comptency requirement for the AS degree. | | |
| CGS 1309 | Computer and Information Technology Concepts | 3 |

**MAJOR CORE COURSES** **Credits** 39
**Complete 39 credits**

| | | |
|---|---|---|
| CGS 1831 | Web Foundations/Essentials | 3 |
| CGS 2651 | Social Media and Web Technologies | 3 |
| CGS 2823 | Advanced Web Site Development | 3 |
| COP 2801 | JavaScript | 3 |
| COP 2844 | Server-Side JavaScript | 3 |
| COP 2803 | Client-Side JavaScript | 3 |
| COP 1842 | Developing Web Sites Using PHP/MYSQL | 3 |
| CTS 2106 | Fundamentals of the Linux Operating System | 3 |
| COP 1000 * | Introduction to Computer Programming | 3 |
| CNT 1000 | Network Fundamentals | 3 |

| | | |
|---|---|---|
| CTS 2433 | SQL Database Design & Programming | 3 |
| CGS 1200C | Web Assistive Technologies | 3 |
| CGS 2940 | Web Development Internship | 3 |

*Students should be comfortable with basic algebra and problem-solving tasks. It is recommended that students complete College Algebra (MAC 1105) before enrolling in COP 1000

Total: 60

**Program Learning Outcomes**

1. Develop web- based systems by incorporating design, functionality specifications, to meet business requirements.
2. Create a responsive, secure, and accessible web site using current development technologies and languages.
3. Summarize and explain a real-world experience with a major-related, supervised and evaluated practical work experience internship.

## Web Development Specialist (WEBDS-CT)

**Summary**

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18
**(18 credits) Grade of "C" or better required**

| | | |
|---|---|---|
| CGS 1831 | Web Foundations/Essentials | 3 |
| CGS 2651 | Social Media and Web Technologies | 3 |
| CGS 2823 | Advanced Web Site Development | 3 |
| COP 1000 * | Introduction to Computer Programming | 3 |
| COP 2801 | JavaScript | 3 |
| COP 2803 | Client-Side JavaScript | 3 |

*Students should be comfortable with basic algebra and problem-solving tasks. It is recommended that students complete College Algebra (MAC 1105) before enrolling in COP 1000

Total: 18

## Youth Development Professional (YDPF-CT)

**Program Summary**

**Effective Catalog Term: Fall 2016 (520) through Present (CIP#0451159906)**
The requirements below may not reflect degree requirements for continuing students. Continuing students should visit My SPC and view My Learning Plan to see specific degree requirements for their effective Catalog term.

This certificate program is designed to prepare students for entry-level positions in before and after school programs, group homes, residential treatment, youth clubs, recreation centers, and other related environments. Students are prepared to work in the field with a focus on quality standards and best practices in working with children and youth.

**Estimated total program cost: $2,597.52**

**Detailed program cost information can be found in the College's Academic Catalog.**

The **Academic Pathway** is a tool for students that lists the following items:

- the recommended order in which to take the program courses
- suggested course when more than one option exists
- which semester each course is typically offered
- if the course has a prerequisite
- courses that may lead to a certificate (if offered in the program)

If you are starting the program this term, click here to access the recommended Academic Pathway.

If you have already started the program, click one of the following for the archived Academic Pathways.

- Archive

Please verify the Academic Pathway lists your correct starting semester.

**Program Requirements**

**MAJOR CORE COURSES** **Credits** 18

| | | |
|---|---|---|
| HUS 1111 | Introduction to Intra and Inter-Personal Processes | 3 |
| HUS 1620 | Principles and Best Practices in Afterschool Programs | 3 |
| HUS 1640 | Foundations of Youth Development | 3 |
| HUS 2315 | Studies in Behavioral Modification | 3 |
| HUS 2540 | Building Stronger Families and Communities | 3 |
| HUS 2949 | Co-op Work Experience in Human Services | 3 |

Total: 18

**Program Learning Outcomes**

1. Students will apply the principles of social services provision to a variety of diverse settings within the human services delivery system and examine current social issues and human services trends and their impact on society, including mental/behavioral health, domestic violence, abuse, neglect, poverty, substance abuse and dependence.
2. Students will demonstrate a professional demeanor that uses interpersonal skills within the professional setting, including active listening, reflecting, clarifying, using open-ended questions, and responding accurately to verbal and nonverbal behavior.
3. Students will apply case management skills, including documentation, assessment, treatment planning, crisis intervention and the ability to make appropriate referrals, identify and access human services resources, including on-line data bases, directories, and referral centers.
4. Students will demonstrate the ability to adhere to professional, ethical standards in human services practice, including confidentiality, informed consent, self-disclosure, boundaries, and demonstrate sensitivity when working with diverse populations.
5. Students will demonstrate awareness of one's personal development, values, and personal challenges and strengths as they relate to one's personal and professional development and practice and understand the responsibility for ongoing professional growth and development.

**ASSOCIATE IN ARTS (A.A.) DEGREE**

The Associate in Arts (A.A.) degree is the first step towards earning a bachelor's degree. Requiring thirty-six (36) credits of general education coursework, the A.A. emphasizes a Liberal Arts education and can be completed in as little as two years. The A.A. curriculum introduces students to the fundamental knowledge, skills and abilities that are the foundation for becoming informed, independent thinkers while completing the lower division course requirements necessary for transfer to their intended baccalaureate program.

Commonly referred to in Florida as the 2+2 system, students must first complete an A.A. degree in order to transfer into a baccalaureate program at a Florida public university or state college. SPC provides over 80 transfer advising pathways to guide students in preparation for their bachelor's programs, either at SPC or another Florida college or university.

**Transfer Plan Advising Pathways**

The Pathway is an academic tool and is intended for students interested in completing an Associate in Arts Degree from SPC and transferring to a baccalaureate program at SPC or an equivalent in the State of Florida (CIP Code 52.0201). You should always consult with your desired transfer institution to determine if your anticipated program is limited access and to ensure the correct coursework is being taken (including any foreign language requirements).

This tool provides:

- the recommended/required program and elective courses
- course options, if applicable
- the recommended order in which to take courses
- which semester/term each course is *typically* offered
- if the course has a prerequisite
- identification of courses that lead to a certificate (if offered in the program)
- information to be used in an advisory capacity

*For additional program and course information, contact an Academic Advisor.*
https://www.spcollege.edu/current-students/student-affairs/student-support-resources/advising

**AA GENERAL EDUCATION REQUIREMENTS** **Credits** 60

**AA General Education Requirements**

| | | |
|---|---|---|
| *Communications - Core* | | 3 |
| Complete 3 credits.<br>Minimum grade of "C" required.<br>Must be completed within the first 24 credits of coursework toward the AA degree. | | |
| ENC 1101 | Composition I | 3 |
| ENC 1101H | Honors Composition I | 3 |
| *Communications - Elective* | | 3 |
| Complete 3 credits.<br>Minimum grade of "C" required.<br>Must be completed within the first 36 credits of coursework toward the AA degree. | | |
| ENC 1102 | Composition II | 3 |
| ENC 1102H | Honors Composition II | 3 |
| *Communications - Speech Elective* | | 3 |

Complete 3 credits.
Minimum grade of "C" required.

| | | |
|---|---|---|
| SPC 1017 | Introduction to Speech Communication | 3 |
| SPC 1017H | Honors Introduction to Speech Communication | 3 |
| SPC 1065 | Speaking for Professionals | 3 |
| SPC 1608 | Public Speaking | 3 |
| SPC 1608H | Honors Public Speaking | 3 |

*Social and Behavioral Sciences - Core - American Government* 3

Complete 3 credits.
Minimum grade of "C" required.
Completing POS 2041 or POS 2041H will satisfy the **course** component of the Civic Literacy Requirement.

| | | |
|---|---|---|
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

*Social and Behavioral Sciences - Elective* 3

Complete 3 credits.
Minimum grade of "C" required.
Completing INR 2002/H or WOH 2040 will also satisfy the Enhanced World View requirement.
Completing AMH 2020/H will satisfy the **course** component of the Civic Literacy Requirement.
Completing AMH 2010/H in Fall 2024 or thereafter will satisfy the **course** component of the Civic Literacy Requirement.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| ANT 2000 | Introduction to Anthropology | 3 |
| ECO 2013 | Principles of Macroeconomics | 3 |
| ECO 2013H | Honors Macroeconomics | 3 |
| PSY 1012 | General Psychology | 3 |
| PSY 1012H | Honors General Psychology | 3 |
| ECO 2000 | Introduction to Economics | 3 |
| ECO 2023 | Principles of Microeconomics | 3 |
| EUH 1000 | Development of Western Civilization I | 3 |
| INR 2002 | International Relations | 3 |
| INR 2002H | Honors International Relations | 3 |
| POS 2112 | State & Local Government | 3 |
| SYG 2000 *** | Introduction to Sociology | 3 |
| WOH 2040 | The Twentieth Century | 3 |

*** Effective Fall 2024, SYG 2000 will no longer satisfy the General Education Social and Behavioral Science Core requirement. Students who have successfully completed SYG 2000 prior to Fall 2024 will satisfy the Social and Behavioral Science Core.

*Humanities and Fine Arts - Core* 3

Complete 3 credits.
Minimum grade of "C" required.
Completing ARH 1000, HUM 1020, or MUL 1010 will also satisfy the Enhanced World View requirement.

| | | |
|---|---|---|
| ARH 1000 | Understanding Art | 3 |
| HUM 1020 | Introduction to Humanities | 3 |
| MUL 1010 | Music Appreciation | 3 |
| PHI 1010 | Introduction to Philosophy | 3 |
| PHI 1010H | Honors Introduction to Philosophy | 3 |
| THE 2000 | Introduction to Theatre Arts | 3 |

*Humanities and Fine Arts - Elective* 3

Complete an additional 3 credits from either Humanities and Fine Arts **Core** or Humanities and Fine Arts **Elective** course options.
Minimum grade of "C" required.
Completing REL 2300/H will also satisfy the Enhanced World View requirement.

| | | |
|---|---|---|
| ARH 2050 | Art History:Ancient to Gothic | 3 |
| ARH 2051 | Art History: Renaissance to Contemporary | 3 |
| HUM 2210 | Western Humanities:Ancient to Renaissance | 3 |
| HUM 2210H | Honors Western Humanities: Ancient to Renaissance | 3 |
| HUM 2233 | Western Humanities:Baroque to Contemporary | 3 |
| MUH 1110 | Introduction to Music History | 3 |
| REL 2300 | World Religions | 3 |
| REL 2300H | Honors World Religions | 3 |

*Mathematics - Core* 3

Complete 3 credits.
Minimum grade of "C" required.
Must be completed within the first 12 credits of coursework toward the AA degree.

| | | |
|---|---|---|
| MAC 1105 | College Algebra | 3 |
| MAC 1114 | Trigonometry | 3 |
| MAC 1140 | Pre-Calculus Algebra | 3 |
| MAC 1147 | Pre-Calculus Algebra/Trigonometry | 5 |
| MAC 2233 | Applied Calculus I | 3 |
| MAC 2311 | Calculus with Analytic Geometry I | 5 |
| MAC 2312 | Calculus with Analytic Geometry II | 5 |
| MGF 1130 * | Mathematical Thinking | 3 |
| STA 2023 | Elementary Statistics | 3 |
| STA 2023H | Honors Elementary Statistics | 3 |

* MGF 1106 and MGF 1107 will no longer satisfy the General Education Math core requirement. Effective catalog year 2024-2025, these courses have been replaced with MGF 1130. Students who have successfully completed MGF 1106 or MGF 1107 prior to Fall 2024 will satisfy the Math core.

*Mathematics - Elective* 3

Complete an additional 3 credits from Mathematics **Core** course options

OR

Select 3 credits from any Mathematics course with MAC, MAP, MAS, MGF, MTG, or STA prefix course options.
Minimum grade of "C" required.

*Natural Sciences - Core* 3

Complete 3 credits.
Minimum grade of "C" required.
Completing any course with an "L" or "C" in the number will also satisfy the Natural Sciences Laboratory requirement.

| | | |
|---|---|---|
| AST 1002 | Introduction to Astronomy | 3 |
| BSC 1005C | Biological Sciences with Lab | 3 |
| BSC 1005CH | Honors Biological Sciences with Lab | 3 |
| BSC 2010 | Biology I Cellular Processes | 3 |
| BSC 2010CH | Honors Biology I Cellular Processes with Laboratory | 4 |
| BSC 2085 | Human Anatomy & Physiology I | 3 |
| CHM 2045 | General Chemistry I | 3 |
| ESC 1000C | Earth Science | 3 |
| EVR 1001C | Introduction to Environmental Science | 3 |
| GLY 2010 ** | Physical Geology | 3 |
| OCE 2001 ** | Introduction to Oceanography | 3 |
| PHY 1053 | General Physics I | 3 |
| PHY 2048 | Physics I | 3 |

** Effective Fall 2024 and thereafter, students who successfully complete GLY 2010 or OCE 2001 will satisfy the Natural Sciences Core requirement. If completed before Fall 2024, the course will satisfy the Natural Sciences Elective requirement.

*Natural Sciences - Elective* 3

Complete an additional 3 credits from either Natural Sciences **Core** or Natural Sciences **Elective** course options.
Minimum grade of "C" required.
Completing any course with an "L" or "C" in the number will also satisfy the Natural Sciences Laboratory requirement.

| | | |
|---|---|---|
| AST 1003 | The Solar System | 3 |
| BSC 1083 | Human Anatomy | 3 |
| BSC 1084C | Essentials of Human Anatomy & Physiology | 4 |
| BSC 1930 | Biological Issues | 3 |
| BSC 2011 | Biology II Organisms & Ecology | 3 |
| BSC 2086 | Human Anatomy & Physiology II | 3 |
| BSC 2250C | Field Biology of Florida with Lab | 3 |
| CHM 1025 | Introductory Chemistry | 3 |
| CHM 2046 | General Chemistry II | 3 |
| CHM 2210 | Organic Chemistry I | 3 |
| CHM 2211 | Organic Chemistry II | 3 |
| GLY 2100 | History of the Earth and Life | 3 |
| HUN 1201 | Science of Nutrition | 3 |
| MCB 2010 | Microbiology | 3 |
| MCB 2010CH | Honors Microbiology with Laboratory | 4 |
| MET 2010 | Introductory Meteorology | 3 |
| OCB 1000C | Biology of Marine Life | 3 |

| | | |
|---|---|---|
| PHY 1054 | General Physics II | 3 |
| PHY 2049 | Physics II | 3 |

*Natural Sciences - Laboratory (Institutional Requirement)*

Complete at least 1 course from the Natural Sciences coursework that includes a laboratory component. Natural Sciences Laboratory courses include any "C" or "L" course with the following prefixes: APB, AST, BCH, BOT, BSC, CHM, ESC, EVR, EVS, GLY, MCB, MET, OCB, OCE, PCB, PHY, PSC, or ZOO.
Minimum grade of "C" required.

*Ethics (Institutional Requirement)* 3

Complete 3 credits.
Minimum grade of "C" required.

| | | |
|---|---|---|
| PHI 1600 | Introduction to Ethics | 3 |
| PHI 1600H | Honors Introduction to Ethics | 3 |

*Computer and Information Literacy Competency (Institutional Requirement)* 0

No minimum credits required.
Competency may be demonstrated by completing the Computer Information and Literacy Exam (CGS 1070T) or by successful completion of one of the approved Computer/Information Literacy Competency courses.

| | | |
|---|---|---|
| CGS 1070 | Basic Computer and Information Literacy | 1 |
| CGS 1100 | Computer Applications | 3 |
| CGS 1309 | Computer and Information Technology Concepts | 3 |
| EME 2040 | Introduction to Educational Technology | 3 |
| MUM 1001 | Apple Macintosh Foundations | 1 |

*Enhanced World View (Institutional Requirement)* 0

Complete at least one 3-credit course from the approved General Education Enhanced World View coursework. This requirement is intended to enhance the student's world view in light of an increasingly globalized economy. Any college-level foreign language course, excluding American Sign Language, will meet this requirement.
Minimum grade of "C" required.

| | | |
|---|---|---|
| ARH 1000 | Understanding Art | 3 |
| HUM 1020 | Introduction to Humanities | 3 |
| HUM 2270 | Humanities (East-West Synthesis) | 3 |
| INR 2002 | International Relations | 3 |
| INR 2002H | Honors International Relations | 3 |
| LIT 2110 | World Literature I (Ancient World Through Renaissance) | 3 |
| LIT 2110H | Honors World Literature I (Ancient World through Renaissance) | 3 |
| LIT 2120 | World Literature II (Renaissance to the Present) | 3 |
| MUL 1010 | Music Appreciation | 3 |
| REL 2300 | World Religions | 3 |
| REL 2300H | Honors World Religions | 3 |
| WOH 2040 | The Twentieth Century | 3 |

*Foreign Language* 0

This degree program requires a minimum of two consecutive years of a foreign language in high school OR two semesters of a foreign language at the college level.

| | | |
|---|---|---|
| ASL 1140C | Basic American Sign Language with Lab | 4 |
| ASL 1150C | Intermediate American Sign Language with Lab | 4 |
| FRE 1120 | Elementary French I | 4 |
| FRE 1121 | Elementary French II | 4 |
| SPN 1120 | Elementary Spanish I | 4 |
| SPN 1121 | Elementary Spanish II | 4 |

*Civic Literacy (FL State Requirement)* 0

Competency may be demonstrated by completing at least one course from the approved General Education Civic Literacy coursework (minimum grade of "C" required) **AND** satisfactory completion of an assessment (exam). Students completing AMH 2010/H in Fall 2024 or thereafter will satisfy the Civic Literacy course requirement. This requirement is in compliance with Rule 6A-10.02413 of the Florida Administrative Code.

| | | |
|---|---|---|
| AMH 2010 | History of the United States I | 3 |
| AMH 2010H | Honors History of the United States I | 3 |
| AMH 2020 | History of the United States II | 3 |
| AMH 2020H | Honors History of the US II | 3 |
| POS 2041 | American National Government | 3 |
| POS 2041H | Honors American National Government | 3 |

*General Electives* 24

Complete 24 credits to satisfy the 60-credit requirement for the Associate of Arts degree. The college-level course (credits) used to satisfy the Computer and Information Literacy Requirement and Foreign Language Requirement will be counted as Elective credits. The college-level course (credits) used to satisfy the Enhanced World View requirement and Civic Literacy requirement will be counted as Elective credits UNLESS counted in another General Education Requirement.

Total: 60

Please note: the Pathways below reflect current and accurate information at the point of this catalog publication and may have changed subsequently. Visit our Program Explorer webpage to see the most up-to-date Pathways for Transfer Plans. Program Explorer - Transfer Plans

## A

American Sign Language Studies (SLIP-TR)

Architecture (ARCHIT-TR)

## B

Biology (BIO-TR)

Biotechnology (BIOT-TR)

Business Administration (BUS-TR)

## C

Chemistry BS (CHEMBS-TR)

Communication (SPC-TR)

Computer & Information Science (COMSC-TR)

Criminology (CRIM-TR)

Cybersecurity (CYSEC-TR)

## D

Digital Media (DIGME-TR)

## E

Economics (ECON-TR)

Education (EDU-TR)

Educational Studies Early Childhood Education (PRESCHL-TR)

Educational Studies Interdisciplinary (IDS-TR)

Educational Studies Training & Development (TRNDEV-TR)

Engineering (ENGINE-TR)

English (ENGLISH-TR)

Environmental Science (EVSC-TR)

## F

FAMU Accounting (FMACC-TR)

FAMU Biology (FMBIO-TR)

FAMU Criminal Justice (FMCRIM-TR)

FAMU Health Science, Pre-Physical Therapy (FMDPT-TR)

FAMU Journalism (FMJOU-TR)

FAMU Mechanical Engineering (FMENGIN-TR)

## H

Health Sciences (HSA-TR)

Human Services (HUMSVC-TR)

## M

Management Organizational Leadership (MGTORG-TR)

Mass Communications (COMM-TR)

Mathematics (MATH-TR)

Middle Grades General Science Education (5-9) (MGSED-TR)

Music (MUSIC-TR)

Music Education (MUSICED-TR)

## N

New College of Florida Biology (NCFBIO-TR)

New College of Florida Chemistry (NCFCHM-TR)

New College of Florida Economics (NCFECO-TR)

New College of Florida Marine Biology (NCFMABI-TR)

New College of Florida Psychology (NCFPSY-TR)

Nursing (NURSING-TR)

**P**

Paralegal Studies (LEGAL-TR)

Pharmacy (PHARM-TR)

Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (PKPED-TR)

Psychology (PSYCH-TR)

Public Policy and Administration (PPA-TR)

Public Safety Administration (PSA-TR)

**S**

Secondary Education Mathematics (MTSED-TR)

Secondary English Education with Reading and ESOL Endorsement (ENGEDR-TR)

Social Work (SOCIAL-TR)

Studio Art BFA (ARTBFA-TR)

Sustainability Management (SUSMGT-TR)

**T**

Technology Development & Management (TMGT-TR)

Theatre (THEATRE-TR)

**U**

USF St. Petersburg - Accounting (FSPACC-TR)

USF St. Petersburg - Anthropology (FSPANTH-TR)

USF St. Petersburg - Biology (FSPBIO-TR)

USF St. Petersburg - Business Analytics and Information Systems (FSPISM-TR)

USF St. Petersburg - Criminology (FSPCRIM-TR)

USF St. Petersburg - Digital Communication & Multimedia Journalism (FSPCOMM-TR)

USF St. Petersburg - English Creative Writing (FSPWRT-TR)

USF St. Petersburg - English Literary Concentration (FSPLIT-TR)

USF St. Petersburg - Finance (FSPFIN-TR)

USF St. Petersburg - History (FSPHIS-TR)

USF St. Petersburg - Interdisciplinary Social Sciences (FSPIDS-TR)

USF St. Petersburg - Management (FSPMGT-TR)

USF St. Petersburg - Marine Biology (FSPMABI-TR)

USF St. Petersburg - Marketing (FSPMAR-TR)

USF St. Petersburg - Political Science (FSPPOLS-TR)

USF St. Petersburg - Psychology (FSPPSY-TR)

USF Tampa - Accounting (FTACC-TR)

USF Tampa - Anthropology (FTANTH-TR)

USF Tampa - Art History (FTARHIS-TR)

USF Tampa - Biology (FTBIO-TR)

USF Tampa - Biomedical Sciences (FTBIOMD-TR)

USF Tampa - Business Analytics and Information Systems (FTISM-TR)

USF Tampa - Cell and Molecular Biology (FTCMBIO-TR)

USF Tampa - Computer Engineering (FTCOEN-TR)

USF Tampa - Computer Science (FTCOSC-TR)

USF Tampa - Criminology (FTCRIM-TR)

USF Tampa - Cybersecurity (FTCYSEC-TR)

USF Tampa - English Creative Writing (FTWRT-TR)

USF Tampa - English Literary Concentration (FTLIT-TR)

USF Tampa - Finance (FTFIN-TR)

USF Tampa - Geology (FTGEOL-TR)

USF Tampa - History (FTHIS-TR)

USF Tampa - Information Technology (FTINFO-TR)

USF Tampa - Interdisciplinary Social Sciences (FTIDS-TR)

USF Tampa - Management (FTMGT-TR)

USF Tampa - Marine Biology (FTMABIO-TR)

USF Tampa - Marketing (FTMAR-TR)

USF Tampa - Mass Communications (FTCOMM-TR)

USF Tampa - Political Science (FTPOLS-TR)

USF Tampa - Psychology (FTPSY-TR)

USF Tampa - Public Health BS (FTPHBS-TR)

USF Tampa - Social Work (FTBSW-TR)

USF Tampa - Studio Art BA (FTARBA-TR)

USF Tampa - Studio Art BFA (FTARBFA-TR)

USF Tampa - Supply Chain Management (FTSCM-TR)

USF Tampa - World Languages & Cultures: French & Francophone Studies (FTFRN-TR)

USF Tampa - World Languages & Cultures: Spanish & Latin American Studies (FTSPN-TR)

PUBLIC SAFETY ACADEMIES

Prepare for a rewarding career in law enforcement, firefighting or corrections through the public safety training academies.

For more information: https://www.spcollege.edu/future-students/admissions/program-requirements/public-safety-academies-admissions

**Corrections Academy – 444 hours**
Florida CMS Correctional Basic Recruit training program.

The Corrections Academy provides the training you need to pass the Florida Department of Law Enforcement State Certification Examination and become a correctional officer. You can serve in local sheriffs' departments, Florida Department of Corrections facilities and private correctional companies. Our academy is held at our FDLE approved training center and uses the curriculum of the Florida Criminal Justice Standards and Training Commission (CJSTC).

**Law Enforcement Academy – 790 hours**
Train to become a certified police officer in our FDLE-approved training center.

The Law Enforcement Academy gives you the training you need to pass the Florida Department of Law Enforcement State Officer Certification Examination and become a police officer. SPC's Southeastern Public Safety Institute is an approved FDLE training center and uses the curriculum of the Florida Criminal Justice Standards and Training Commission (CJSTC). These courses count toward subplans of our A.S. degree in Criminal Justice Technology, which transfer to our bachelor's degree in Public Safety Administration.

**Equivalency of Training Academy – 49 - 57 hours**
Out-of-state, federal, military, or previously certified Florida officers train to become a certified law enforcement or corrections officer in the state of Florida.

Our Equivalency of Training Academy is for out-of-state officers, federal officers, military personnel and previously certified Florida officers with a break of service of more than four years. (See Florida Statutes 943.131(2) and Florida Administrative Code 11B-35.009(4)(5).) This EOT Academy exempts you from having to complete the full basic recruit academy and qualifies you to sit for the Florida State Officer Certification Examination (SOCE).

**Firefighting Academy – 492 hours**
Our academy is certified as a fire training center by the Florida Bureau of Fire Standards and Training.

As a firefighter, you often risk your life to protect the public. The St. Petersburg College Firefighting Academy prepares you for a challenging and rewarding career as a firefighter at its cutting-edge Fire and Public Safety Training Center. Once you complete the academy courses, you receive a certificate of completion and are qualified to take the state Firefighter II certification exams.

**Combined Firefighter / EMT - 792 hours**
This combined academy provides the necessary training to become certified firefighters as well as licensed Emergency Medical Technicians. It is not designed for those who are currently certified/licensed as either firefighters or EMTs. Students in this program first complete the Firefighting Academy and then the EMT course.
https://courses.spcollege.edu/DegreeProgram/FFEM-PSAV

**Public Safety Telecommunications Certificate - 244 hours**
In partnership with Pinellas County Safety and Emergency Services and several local agencies, this six-week training includes CPR certification. The program is designed to meet the need for telecommunicators in 911 call centers serving as police, fire, and emergency medical services dispatchers. It includes 12 additional clock hours over two days that supports state exam review.
https://www.spcollege.edu/future-students/degrees-training/public-safety-public-policy-and-legal-studies/public-safety/public-safety-telecommunication-certificate

WORKFORCE, SHORT-TERM TRAINING, and INDUSTRY CERTIFICATIONS

At SPC's Workforce, Community, & Corporate Partnerships, we are dedicated to your professional and personal growth. From updating your skills to earning a certification to learning a new language, we are offer convenient courses, seminars and continuing education options taught by industry experts.  Visit here for more information.
Workforce, Community, & Corporate Partnerships

**Benefits of Workforce, Community, & Corporate Partnerships programs**

Through our Workforce Education programs, you can:

- Complete courses in as little as a few hours or opt for more extensive training
- Update current skills
- Earn Continuing Education Units (CEU)/Professional Development Units (PDU)
- Participate in one of our exam prep courses for in-demand certifications
- Earn industry certifications in just a few weeks
- Receive free college credit for your certifications in certain SPC academic programs
- Obtain new skills through certificate programs
- Learn a new language

Workforce and Short-term Training Programs

Industry Certifications

Courses listed in the catalog apply to the Fall 2025, Spring 2026, and Summer 2026 terms.

## ACG-Accounting General

ACG 2021 Financial Accounting (3.00 Credits)
No Requisites Required

Students will develop literacy and skills in the application of the basic principles of financial accounting including accounting principles and practices, accounting journals and ledgers for recording business transactions, and the application of the accounting cycle for service and merchandising enterprises including the preparation and interpretation of financial statements with an emphasis on corporations.

ACG 2071 Managerial Accounting (3.00 Credits)
Prerequisite ACG 2021 with a minimum grade of C

Students will develop literacy and skills in the application of the basic principles of managerial accounting. Students will apply various costing methods, conduct cost-volume-profit analysis, participate in budgeting, engage in management decision-making, prepare statement of cash flows, and conduct financial statement analysis.

ACG 2450 Accounting Software Applications (3.00 Credits)
Prerequisite ACG 2021 with a minimum grade of C or Permission of the Program

This course provides an overview of accounting software applications in a business organization. In a hands-on learning environment, students will learn the design and function of a computerized accounting information system. Using QuickBooks Online accounting software, students will work progressively through accounting cycles for service and merchandising businesses. Specific applications will include the setup of an accounting information system for a new company, recording transactions, and creation as well as analysis of various reports and financial statements. Transactional and reporting areas will include banking, customers, sales, vendors, purchases, inventory, employees, and payroll. The course is designed to prepare students for the Intuit QuickBooks Certified User Online Exam.

ACG 3103 Intermediate Accounting I (3.00 Credits)
Prerequisite ACG 2071 and Admission to Business Administration (Bachelor of Science) (BUS-BS)
This course emphasizes the theoretical aspects and frameworks of financial accounting. Topics include financial statements preparation, revenue recognition, present value of investments, and the study of assets. The assets component focuses on current assets such as cash, receivables, and inventories.

## AMH-American History

AMH 1091 African-American History (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test
This course examines the development of the Black presence in America. The concern will be to study the economic, social, and psychological factors that led to slavery, the practical consequences of slavery on Black and White social groups, the events and individuals who contributed to the elimination of slavery, the struggle for citizenship and self-worth, the artistic contributions, the social justice movement of the 1970's, and the current social condition defining the Black experience in America. This course partially satisfies the writing requirements outlined in the General Education Requirements.

AMH 2010 History of the United States I (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite an appropriate score on the college placement test.

In this course, students will examine the United States history from before the European contact to 1877. Topics will include, but will not be limited to, indigenous peoples, the European background, the colonial period, the American Revolution, the Article of Confederation, the Constitution, issues within the new Republic, sectionalism, Manifest Destiny, slavery, the American Civil War, and Reconstruction. ***State Core Course Description (State Rule 6A-14.0303)***. This course partially satisfies the writing requirements outlined in the General Education Requirements. (Note: Credit is only given for AMH 2010 or AMH 201OH or IDS 2103H.) **Note: Effective Fall 2024 and forward, students who successfully complete AMH2010/H will satisfy the Social Sciences Core requirement. If completed before Fall 2024, the course will satisfy the Social Sciences Elective requirement.**

AMH 2010H Honors History of the United States I (3.00 Credits)
Prerequisite Appropriate score on the college placement test or Admission to Honors College or Permission of the Program

In this course, students will examine the United States history from before the European contact to 1877. Topics will include but are not limited to indigenous peoples, the European background, the colonial period, the American Revolution, the Article of Confederation, the Constitution, issues within the new Republic, sectionalism, Manifest Destiny, slavery, the American Civil War, and Reconstruction. ***State Core Course Description (State Rule 6A-14.0303)***. This course also analyzes methods of qualitative and quantitative research, cases studies, archival retrieval, and comparative approaches to the study of societies and emphasizes writing research-based papers, historiography and critical analysis. Independent research and interdisciplinary connections will also be encouraged for students to make connections to other related areas of humanities, philosophy and literature in the Honors Program. This advanced course will have a substantial writing assignment. (Note: Credit is only given for AMH 2010 or AMH 201OH or IDS 2103H.) **Note: Effective Fall 2024 and forward, students who successfully complete AMH2010/H will satisfy the Social Sciences Core requirement. If completed before Fall 2024, the course will satisfy the Social Sciences Elective requirement.**

AMH 2020 History of the United States II (3.00 Credits)
Prerequisite ENC 0025 and (Prerequisite REA 0017 or Prerequisite EAP 1695 or Prerequisite an appropriate score on the college placement test)

In this course, students will trace the history of the United States from the end of the Reconstruction Era to the contemporary era. Topics will include but are not limited to the rise of industrialization, the United States' emergence as an actor on the world stage, constitutional amendments and their impact, the Progressive era, World War I, the Great Depression and the New Deal, World War II, the Civil Rights era, the Cold War, and the United States since 1877. ***State Core Course Description (State Rule 6A-14.0303)***. This course partially satisfies the writing requirements outlined in the General Education requirements. (Note: Credit is only given for AMH 2020 or AMH 2020H or IDS 1102H.) **Effective Fall 2024 and forward, students who successfully complete AMH 2020/H will satisfy the Social Sciences Core requirement. If completed before Fall 2024, the course will satisfy the Social Sciences Elective requirement.**

AMH 2020H Honors History of the US II (3.00 Credits)
Prerequisite Appropriate score on the college placement test or acceptance into the Honors College or Permission of the Program

In this course, students will trace the history of the United States from the end of the Reconstruction Era to the contemporary era. Topics will include but are not limited to the rise of industrialization, the United States' emergence as an actor on the world stage, constitutional amendments and their impact, the Progressive era, World War I, the Great Depression and the New Deal, World War II, the Civil Rights era, the Cold War, and the United States since 1989. ***State Core Course Description (State Rule 6A-14.0303)***. This course also analyzes methods of qualitative and quantitative research, case studies, archival retrieval, and comparative approaches to the study of societies and emphasizes writing research-based papers, historiography and critical analysis. Independent research and interdisciplinary connections will also be encouraged for students to make connections to other related areas of humanities, philosophy and literature in the Honors Program. This course will have a substantial writing requirement. This course partially satisfies the writing requirements outlined in the General Education Requirements. (Note: Credit is only given for AMH 2020 or AMH 2020H or IDS 1102H.) **Effective Fall 2024 and forward, students who successfully complete AMH 2020/H will satisfy the Social Sciences Core requirement. If completed before Fall 2024, the course will satisfy the Social Sciences Elective requirement.**

AMH 2070 Florida History (3.00 Credits)
No Requisites Required
This course outlines chronologically the economic, social, geographic and political background of Florida from the time of discovery through settlement, colonization and statehood. Florida's role in the Civil War and Reconstruction Period is reviewed and the state's agricultural development into the 20th century is described. Current issues including the impact of urbanization, tourism, and industrialization are emphasized.

## AML-American Literature

AML 1600 African-American Literature (3.00 Credits)
(Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1101H with a minimum grade of C or Prerequisite IDS 1111H with a minimum grade of C) or Prerequisite appropriate score on the college placement test
This course is designed to survey the major fiction, poetry, drama, and essays of selected African-American writers through the twenty-first century. It emphasizes issues and ideas that have influenced African-American literary expression and explores personal responses to the African-American experience as reflected in American culture. It examines African-American literature through four periods: Slavery, The Civil War and Reconstruction, The Harlem Renaissance, and the Contemporary Period. It traces human experiences as they unfold in African-American literature and American culture, while also exploring the historical background, social issues, and diverse ideologies of each period. This course requires substantial reading, library research, and the composition of the research paper.

AML 2010 American Literature I: to 1865 (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1101H with a minimum grade of C or Prerequisite IDS 1111H with a minimum grade of C or Prerequisite appropriate score on the college placement test
This is a course designed to survey American literature to 1865, with special emphasis on Romanticism and Realism as well as methods of library research, writing of the research paper and the paper of literary interpretation. Included are selected works of major writers such as Edgar Allan Poe, Nathaniel Hawthorne, Herman Melville, Ralph Waldo Emerson, Henry David Thoreau, Walt Whitman, and Emily Dickinson. This course partially satisfies the writing requirements as outlined in the General Education Requirements. (Note: Credit is not given for both AML 2010 and AML 2010H.)

AML 2020 American Literature II: 1865 To Present (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1101H with a minimum grade of C or Prerequisite IDS 1111H with a minimum grade of C or Prerequisite appropriate score on the college placement test
This is a course designed to survey American literature from 1865 to the present. Included are selected works of major writers such as Mark Twain, Stephen Crane, Henry James, Robert Frost, Carl Sandburg, T. S. Eliot, E. E. Cummings, F. Scott Fitzgerald, William Faulkner, Ernest Hemingway, Norman Mailer, Bernard Malamud, Flannery O'Connor, James Baldwin, James Dickey, and Sylvia Plath. This course also stresses methods of library research and emphasizes writing of the research paper and the paper of literary interpretation. This course partially satisfies the writing requirements outlined in the General Education Requirements. American Literature to 1865 is not necessarily a prerequisite to this course. (Note: Credit is only given for AML 2020 or AML 2020H.)

AML 3031 American Literature to 1860 (3.00 Credits)
Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

This is a survey course that is designed to introduce students to the evolution of American literature from its colonial beginnings through the Civil War, examining how early American writers have shaped the nation's literary heritage. Students will engage with texts by writers from various backgrounds and perspectives. Through close reading and critical analysis, students will examine American literary movements including Puritanism, Enlightenment thought, Romanticism, and Transcendentalism. Course materials may include prose, poetry, political writings, and early fiction, with discussions on both thematic concerns and literary techniques.

AML 3201 Major Movements in American Literature since 1865 (3.00 Credits)
Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

Through an emphasis on major literary movements since the Civil War, this course explores texts representative of American realism, naturalism, the Harlem Renaissance, modernism, and post-modernism. It examines how political, philosophical, and technological developments have influenced the creation, distribution, and interpretation of literature since 1865. The course highlights a range of perspectives and experiences that have shaped American writing during this period. Additionally, students will be introduced to key schools of thought and major trends in American literary criticism. This course involves extensive reading and writing.

AML 3682 American Multi-Ethnic Literature (3.00 Credits)
Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

This course is an interdisciplinary exploration of U.S. literature by writers beyond the traditional canon. Readings will consider texts by African American, Native American, Latinx, and Asian American writers. Course themes may focus on ethnicity, race, nationality, social class, gender, and identity. The course will also explore the ways in which historical and social forces, activism, and government policies impact(ed) the literary output of selected writers. This course is reading and writing intensive.

## ANS-Animal Science

ANS 3006 Introduction to Animal Science (3.00 Credits)
Admission to Biology (Bachelor of Science) (BIOLOGY-BS) or Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS)
This course provides an overview of the discipline of livestock production. The course covers the fundamentals of animal science, including nutrition, feeds, genetics, reproduction, healthcare and management of major and minor species. The agricultural industries of animal production will also be explored.

ANS 3440 Principles of Animal Nutrition (3.00 Credits)
Admission to Biology (Bachelor of Science) (BIOLOGY-BS) or Permission of the Program or Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS)
This course investigates the classification and function of nutrients, their interrelationships and processes of utilization, the use and composition of feedstuffs and ration formulation for domestic animals, especially ruminant and non-ruminant food animals. This introductory course offers an overview of all aspects of nutrition for domestic animals. The fundamentals of nutritional science and the classification and use of feedstuffs are included. The basics of anatomy and physiology of the digestive systems of all major food animal species and horses are discussed. Current methods of balancing rations are introduced with exercises to apply these methods. (Note: Study Abroad opportunities may apply to this course. https://blog.spcollege.edu/international/study-abroad/)

## ANT-Anthropology

ANT 2000 Introduction to Anthropology (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate score on the placement test

In this course, students will learn the foundations of anthropology as the study of human variation in its biological, social, and cultural dimensions. Students will learn about anthropological concepts, principles, and methodologies to understand and explore past and present human behavior. They will apply the anthropological approach to analyze issues pertaining to past and contemporary cultures, and develop intellectual skills and habits to understand behavioral, social, and cultural issues from multiple disciplinary perspectives. ***State Core Course Description (State Rule 6A-14.0303).*** This course partially satisfies the writing requirements outlined in the General Education Requirements. **This course satisfies the Social and Behavioral Sciences General Education Core.**

ANT 2410 Cultural Anthropology (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test.
This course is the study of the influence of culture on human behavior. The course deals with cultural variations and similarities in the areas of subsistence techniques and technology, family and kinship, social order and disorder, and world view. This course partially satisfies the writing requirements outlined in the General Education Requirements. Note: Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

APA 2501 Payroll Accounting (3.00 Credits)
Prerequisite ACG 2021 with a minimum grade of C

Students will develop literacy and skills in the application of the principles of payroll accounting, including the calculation of salaries and wages, federal, state, Social Security, Medicare, and unemployment taxes, including matching employer taxes. Students will prepare the necessary payroll entries and produce quarterly and year-end tax returns. This course is designed to prepare students to pass the national certification exam and to obtain the American Payroll Association's (APA) Fundamental Payroll Certification. Prerequisite: ACG 2021 Financial Accounting with a grade of "C" or higher.

## ARC-Architecture

ARC 1301C Architectural Design I (4.00 Credits)
Pre- or Co-requisite ART 1300C with a minimum grade of C
This is an introductory course interfacing communication skills with design thinking. Emphasis is on the awareness and understanding of basic organization ideas in design.

ARC 1302C Architectural Design II (4.00 Credits)
Prerequisite ARC 1301C
This is an analysis course that uses the study of architectural precedent as a foundation for the development of communication and design skills. Eight class and laboratory hours weekly.

ARC 1701 Architectural History I (3.00 Credits)
No Requisites Required
This course is a general survey of social, political and cultural factors which have generated art and architecture from prehistoric times through the Baroque and Rococo periods. Instruction also includes drawings and sketches of major buildings. An annotated sketchbook will be required.

ARC 1702 Architectural History II (3.00 Credits)
No Requisites Required
This course is a general survey of the social, political and cultural factors which have generated art and architecture from the Age of Enlightenment to the present. The elements of architecture, described by Vitruvius as Function, Strength and Aesthetics, will be analyzed in significant buildings from the Eighteenth Century to the current works by contemporary architects. Instruction also includes drawings and sketches of major buildings. An annotated sketchbook will be required.

ARC 2201 Architectural Theory (3.00 Credits)
Prerequisite ARC 1301C with a minimum grade of C or Prerequisite ARC 1701 with a minimum grade of C or Prerequisite ARC 1702 with a minimum grade of C
This course is a theoretical exploration into the meaning and goals of architecture; an investigation of the creative process of design.

ARC 2303C Architectural Design III (4.00 Credits)
Prerequisite ARC 1302C
This course is an introduction to the forces, both physical and perceptual, which determine the varied environments which man creates, or otherwise alters. Emphasis will be placed on: (1) becoming aware of the forces which contribute to the environment; (2) gathering and organizing data supporting the existence of these forces; and (3) discovering means to communicate these findings. Eight class and laboratory hours weekly.

ARC 2304C Architectural Design IV (4.00 Credits)
Prerequisite ARC 2303C with a minimum grade of C
A personal interview and a review of the student's portfolio and academic record by an architecture faculty committee is required for admission to this course. This course is a continuation of Architectural Design III, basic studies in perception of the components of architecture. This course has a substantial writing requirement.

ARC 2461C Materials and Methods of Construction I (3.00 Credits)
No Requisites Required
This course is an introduction to materials and methods used in wood frame, masonry, concrete and steel construction. Laboratory work will consist of "hands on" experience and field trips to construction sites.

ARC 2501 Architectural Structures I (4.00 Credits)
Prerequisite ARC 1302C with a minimum grade of C
This course is a study of basic principles of static mechanics and strength of materials relating to the design, investigation, and behavior of structural elements and systems of buildings. This course has a substantial writing requirement.

## ARH-Art History

ARH 1000 Understanding Art (3.00 Credits)
(Prerequisite ENC 0025 or Prerequisite EAP 1695) or Prerequisite appropriate score on the college placement test.

In this course, students will develop an appreciation of and the ability to think critically about culture and be provided with the tools to understand, analyze, and discuss works of visual art and material culture. ***State Core Course Description (State Rule 6A-14.0303).*** This course partially satisfies the writing requirements outlined in the General Education Requirements. **This course satisfies the Humanities General Education Core and SPC Enhanced World View requirements.** Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)

ARH 2050 Art History:Ancient to Gothic (3.00 Credits)
(Prerequisite ENC 0025 or Prerequisite EAP 1695) or Prerequisite appropriate score on the college placement test.
This course examines the origin and development of painting, sculpture, architecture, and significant crafts from the Paleolithic era to the Gothic period in Western Europe. This course partially satisfies the writing requirements outlined in the General Education Requirements.

ARH 2051 Art History: Renaissance to Contemporary (3.00 Credits)
Prerequisite ENC 0025 or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test.

An introduction to art history which acquaints the student with major works of art, and their influence on the historical and cultural development of artistic styles from the Renaissance to the present. Students will identify and describe works of visual art in their cultural context, including works from or inspired by the Western canon and other global traditions.

## ART-Art

ART 1201C Design I (3.00 Credits)
No Requisites Required

This course is a foundation course developing knowledge and perception of two-dimensional form and its elements. This course is an introduction to basic design concepts, skills and processes necessary for all art careers.

ART 1203C Design II (3.00 Credits)
Prerequisite ART 1201C with a minimum grade of C
This is a foundation course developing knowledge and perception of three-dimensional form and its elements. An expansion of design skills, processes and concepts of design necessary for all art careers is discussed.

ART 1300C Drawing I (3.00 Credits)
No Requisites Required

This course is an introduction to basic drawing skills, concepts and processes through a structured learning situation. Various media are used. Course may be taken up to three times for credit. NOTE: This course is not intended for students in the Digital Media programs. Digital Media students should register for DIG 2183C – Digital Drawing. Please see an advisor for further guidance. 92 contact hours.

ART 1330C Drawing II (3.00 Credits)
Prerequisite ART 1300C with a minimum grade of C
This course is an in-depth study of drawing with an emphasis upon classical drawing ideals and techniques as they pertain to the depiction of the human figure and organic form. Course may be taken up to three times for credit.

ART 1701C Sculpture I (3.00 Credits)
Prerequisite ART 1203C or Permission of the Program
This course covers the problems and techniques of applied three-dimensional design with an emphasis on the use of materials and tools. Students will be introduced to the basic methods of casting, carving, modeling, and assemblage. The creative aspects of the sculptural process will be emphasized by broadening the student's concept development and sensitizing the student to the materials and techniques involved in the sculptural process. Students will become familiar with the basic vocabulary associated with sculpture. Students will discuss and apply issues of contemporary critical art theory within the context of their project work. Course may be taken up to three times for credit.

ART 1750C Ceramics I (3.00 Credits)
No Requisites Required
This course presents the basic concepts of ceramic design, as well as the various methods of construction and firing pieces. Course may be taken up to three times for credit.

ART 1751C Ceramics II (3.00 Credits)
Prerequisite ART 1750C or Permission of the Program
This course is an extension of ART 1750C. This course addresses advanced throwing techniques, creative handbuilding, glaze formulation, and firing processes. Course may be taken up to 3 times for credit.

ART 2400C Printmaking I (3.00 Credits)
Prerequisite ART 1300C with a minimum grade of C

This course is an exploration of figure/ground theory as related to 2D visual design and image making. Basic skills in creating and printing relief, intaglio, monoprint/ monotype, and silkscreen will be explored. Students will focus on technical and creative skills of creating both editioned prints and monoprint/ monotype. Course may be taken up to three times for credit.

ART 2500C Painting I (3.00 Credits)
Prerequisite ART 1201C with a minimum grade of C and Prerequisite ART 1300C with a minimum grade of C
This course is an introduction to the materials, techniques and concepts of painting through a structured learning situation. Course may be taken up to three times for credit.

ART 2501C Painting II (3.00 Credits)
Prerequisite ART 2500C with a minimum grade of C
This course is a continuation of Painting I with an emphasis on individual development. Course may be taken up to three times for credit.

ART 2940 Visual Arts Internship (1.0-3.00 Credits)
Permission of the Program

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to his/her program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations. To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

## ASL-American Sign Language

ASL 1140C Basic American Sign Language with Lab (4.00 Credits)
No Requisites Required

This course is an introduction to American Sign Language (ASL) as used in the Deaf Community and includes an overview of ASL grammatical features and structures. Emphasis will be placed upon building novice level of sign lexicon and communication through engaging in discussion and negotiating meaning related to personal preferences, family, familiar topics, needs and feelings. Students will gain awareness of Deaf Culture through connections within the Deaf Community and will investigate the similarities and differences between languages and culture within the Deaf Community. Students will have directed practice with live and recorded ASL on a variety of topics, emphasizing the development of a novice level of receptive and expressive conversational practice. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

ASL 1150C Intermediate American Sign Language with Lab (4.00 Credits)
Prerequisite ASL 1140C with a minimum grade of C

This course is a continuation of basic American Sign Language (ASL) as used in the Deaf Community. It includes a continued study of ASL grammatical features and structures. Emphasis will be placed upon building an intermediate level of sign lexicon and communication though engaging in discussion and negotiating meaning related to describing people and places, making requests, giving opinions and asking for advice, as well as discussing personal plans and goals. Students will gain awareness of Deaf Culture through connections within the Deaf Community and will investigate the similarities and differences between languages and cultural variations within the Deaf Community. Students will have directed practice with live and recorded ASL on a variety of topics, emphasizing the development of an intermediate level of receptive and expressive conversational practice. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

ASL 1160C Advanced American Sign Language with Lab (4.00 Credits)
(Prerequisite ASL 1150C with a minimum grade of C and Pre- or Co-requisite ASL 1510 with a minimum grade of C) and (Prerequisite EAP 1695 or Appropriate score on the college placement test or ((Prerequisite ENC 0025 or Prerequisite ENC 0027 or Prerequisite ENC 0056) and (Prerequisite REA 0017 or Prerequisite REA 0056)))

This course is a continuation of Intermediate American Sign Language (ASL) designed to develop expressive and receptive signing skills to an advanced level. Included are compound/complex sentences, inflectional signs, tense and time, sign modulations, and classifiers. Discussion may also include cultural issues and optional professional careers in deafness. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

ASL 1300 Structure of American Sign Language (3.00 Credits)
Prerequisite ASL 1510 with a minimum grade of C and Prerequisite ASL 1160C with a minimum grade of C

This course is for the intermediate or advanced signer with limited exposure to American Sign Language (ASL). American Sign Language, as used by deaf adults, is studied with an emphasis on the phonological, morphological, semantic, syntactical, idiomatic and metaphorical aspects of ASL. Current research in the field is examined and discussed. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

ASL 1430 Fingerspelling (2.00 Credits)
Prerequisite ASL 1140C with a minimum grade of C and Pre- or Co-requisite ASL 1510 with a minimum grade of C
This course introduces students to fingerspelling and numbers in American Sign Language. The course covers topics such as techniques and forms of fingerspelling, when people fingerspell and how they use fingerspelling to meet their needs. It also includes numerical systems in American Sign Language (ASL). Emphasis is on both receptive and expressive development.

ASL 1510 Introduction to Deaf Culture (3.00 Credits)
No Requisites Required

This course is an introduction and orientation to the educational, communicative, social, vocational, psychological and legal aspects of deafness. The course will deal with the impact of deafness on the individual and the family, as well as social patterns of the deaf community. In addition, it will describe historical and changing attitudes toward the culture of deaf persons and other groups of handicapped persons. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

ASL 2210C American Sign Language IV with Lab (4.00 Credits)
(Prerequisite ASL 1160C with a minimum grade of C and Prerequisite ASL 1510 with a minimum grade of C) and ((Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or (Prerequisite appropriate score on the college placement test and Permission of the Program))

This course is a continuation of Advanced American Sign Language (ASL) designed to focus on the development of mastery and advanced conversational American Sign Language skills. This course will emphasize receptive and expressive discourse with ASL users, focus on non-manual signals, complex grammatical constructions, and idiomatic expressions. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

## AST-Astronomy - AST

AST 1002 Introduction to Astronomy (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite MAT 0028)

This course provides a comprehensive look at modern astronomy, emphasizing the use of the scientific method and the application of physical laws to understand the universe including earth and its environment. Throughout this course, students will develop the ability to discern scientific knowledge from non-scientific information by using critical thinking. ***State Core Course Description (State Rule 6A-14.0303).***

AST 1003 The Solar System (3.00 Credits)
Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028
This course is a study of Earth as a planet, the Moon, and the Sun, measurement of time, eclipses, planets and their satellites, comets, meteors, and various theories of the origin of the solar system. Consideration will be given to the historical development of the science and the basic principles of mechanics as applied to astronomy.

AST 1022L Observational Astronomy Laboratory (1.00 Credits)
Pre- or Co-requisite AST 1002 or Pre- or Co-requisite AST 1003 or Prerequisite AST 1004
This is a laboratory course to provide those experiences in observation needed by the beginning astronomy student and the interested amateur. Topics will include astronomical coordinate systems, characteristics of telescopes, telescopic observation of celestial objects, astrophotography, and applications of desktop planetarium software.

## ATE-Animal Science Technology

ATE 1110 Animal Anatomy (3.00 Credits)
Admission to Veterinary Technology (Associate in Science) (VETTC-AS) and Pre- or Co-requisite ATE 1110L
This course will teach the fundamentals of anatomy of domestic animals, especially the canine, with emphasis on locating and identifying the anatomical regions and landmarks. Introduction to descriptive and topographical terms to aid the student in communicating with the professional staff.

ATE 1110L Animal Anatomy Lab (1.00 Credits)
Admission to Veterinary Technology (Associate in Science) (VETTC-AS) and Pre- or Co-requisite ATE 1110
This course is designed to acquaint the student with the fundamental techniques involved in anatomic dissection as well as necropsy procedures. This laboratory will correlate with lecture material learned in Animal Anatomy and will help to visualize these concepts.

ATE 1211 Animal Physiology (3.00 Credits)
Admission to Veterinary Technology (Associate in Science) (VETTC-AS) and Pre- or Co-requisite ATE 1110 with a minimum grade of C and Pre- or Co-requisite ATE 1110L with a minimum grade of C
This course is designed to acquaint the student with physiology of the domestic animal species. The course emphasizes the differences between the systems of domestic animals. Aspects of physiology relating to the pathogenesis of certain diseases will also be discussed.

ATE 1311L Veterinary Office Procedures (1.00 Credits)
Admission to Veterinary Technology (Associate in Science) (VETTC-AS)
This course is designed to acquaint the student with the mathematics and office procedures used in veterinary hospital management. In addition, the laws and the agencies governing the care, use, and movement of animals and current veterinary issues will be discussed. Resume writing, job seeking, and interview techniques will also be covered.

ATE 1412C Introduction to Dental Techniques (1.00 Credits)
Prerequisite ATE 1110 with a minimum grade of C and Prerequisite ATE 1110L with a minimum grade of C

This course serves as an introduction to the fundamental techniques of veterinary dentistry used by veterinary technicians. Students will attain a foundation level understanding of basic topics such as dental disease, dental preventative care, diagnostic and therapeutic techniques, and equipment usage.

ATE 1636 Large Animal Clinical & Nursing Skills (2.00 Credits)
Admission to Veterinary Technology (Associate in Science) (VETTC-AS)
This course is designed to educate the students on the basics of farm animal health including husbandry, nutrition, dentistry, preventative medicine and clinical and surgical procedures. Students will learn about horses, ruminants, camelids and swine.

ATE 1650L Veterinary Clinical Practice I (1.00 Credits)
Admission to Veterinary Technology (Associate in Science) (VETTC-AS)
This course is designed to acquaint the student with basic laboratory and nursing skills, including restraint, history taking, examining room techniques, administering medications, basic parasitology, and basic clinical pathology procedures.

ATE 1654L Veterinary Clinic Practice II (1.00 Credits)
Prerequisite ATE 1650L with a minimum grade of C and Prerequisite ATE 1110 with a minimum grade of C and Pre- or Co-requisite ATE 1944 with a minimum grade of C
This course is designed to acquaint the student with basic skills in radiology and surgical nursing.

ATE 1671L Laboratory Animal Medicine (1.00 Credits)
Prerequisite ATE 2651L with a minimum grade of C
This course is a study of the technical clinical aspects of laboratory animal care, including restraint and handling, common diseases, and nutrition of common laboratory species.

ATE 1741 Veterinary Med Terminology (1.00 Credits)
Admission to Veterinary Technology (Associate in Science) (VETTC-AS)
This course is an introduction to medical terminology and veterinary terminology. Included is an introduction to the foundation of veterinary and medical language such as word roots, prefixes, suffixes, and combining forms.

ATE 1943 Veterinary Work Practicum I (1.00 Credits)
Pre- or Co-requisite ATE 1650L with a minimum grade of C and Admission to Veterinary Technology (Associate in Science) (VETTC-AS)
This course consists of supervised clinical experience in a work place approved by the instructor. (Note: A minimum of 100 hours in a full service veterinary clinic is required.)

ATE 1944 Veterinary Work Practicum II (1.00 Credits)
Prerequisite ATE 1943 with a minimum grade of C and Pre- or Co-requisite ATE 1654L with a minimum grade of C
This course consists of supervised clinical experience in a workplace approved by the instructor. (Note: A minimum of 100 hours in an approved workplace is required.)

ATE 2050C Small Animal Behavior (2.00 Credits)
Admission to Veterinary Technology (Associate in Science) (VETTC-AS)

This is a lecture/lab course covering canine and feline behavior, learning, and communication. Discussion topics will include dog and cat training, learning and behavior modification, perception, communication, development and social relationships, and genetic influences on behavior. The student will train a dog and a cat, and will discuss and apply learning and behavior modification techniques.

ATE 2611 Animal Anesthesia (3.00 Credits)
Prerequisite ATE 2651L with a minimum grade of C and Pre- or Co-requisite ATE 1211 with a minimum grade of C

This course introduces the principles and practices of veterinary anesthesia, guiding students through each stage of the anesthetic process. Emphasis is placed on the veterinary technician’s role in ensuring patient safety through proper use of anesthetic equipment, accurate monitoring, pain management, and effective surgical nursing care.

ATE 2612 Animal Medicine (3.00 Credits)
Prerequisite ATE 2631 with a minimum grade of C and Pre- or Co-requisite ATE 1211 with a minimum grade of C and Pre- or Co-requisite ATE 2638 with a minimum grade of C

The course topics include immunity, disease prevention, common vaccinations and diseases, physical therapy, oxygen and fluid therapy, transfusion medicine, and obstetrics/pediatric care in companion animals.

ATE 2631 Animal Nursing (3.00 Credits)
Admission to Veterinary Technology (Associate in Science) (VETTC-AS)
This course is a study of the technical skills of hospital maintenance and disinfection; general patient care; clinical nutrition; medicating animals; exam room techniques; diagnostic imaging including radiography, ultrasonography and endoscopy; zoonotic diseases; and human health hazards associated with veterinary medicine.

ATE 2634 Animal Pharmacology (3.00 Credits)
Prerequisite ATE 1211 with a minimum grade of C
This course is a study of the principles and practices related to veterinary pharmacology. Lecture topics will include a review of veterinary pharmacology and pharmacokinetics. Emphasis is on the application of the principles of pharmacology in small animal veterinary practice.

ATE 2638 Animal Lab Procedures I (3.00 Credits)
Prerequisite Any College-level BSC or ZOO and Prerequisite ATE 1211 with a minimum grade of C and Pre- or Co-requisite ATE 2638L
This lecture course is designed to introduce the veterinary technician student to common parasites and their life cycles seen in routine veterinary practice. Hematology and the kinetics of the hematopoietic system are discussed with emphasis on normal blood smears and common changes seen during disease states of domestic animals.

ATE 2638L Animal Lab Procedure Lab (2.00 Credits)
Pre- or Co-requisite ATE 2638
This course is for the reinforcement and application of laboratory procedures and principles taught in Animal Laboratory Procedures.

ATE 2639 Animal Lab Procedures II (3.00 Credits)
Prerequisite ATE 2638 with a minimum grade of C and Pre- or Co-requisite ATE 2639L with a minimum grade of C
This lecture course serves as a continuation of Animal Lab Procedures I and covers topics of immunology, organ function and diagnostic testing. Additional topics include normal and abnormal exfoliative cytology, veterinary microbiology, and the evaluation of endocrine disorders.

ATE 2639L Animal Lab Procedures Lab II (2.00 Credits)
Prerequisite ATE 2638L with a minimum grade of C and Pre- or Co-requisite ATE 2639 with a minimum grade of C
This course provides experience in the clinical application of the techniques discussed in Animal Laboratory Procedures II in the areas of immunology, clinical chemistry, cytology, veterinary microbiology, coagulation testing, and abnormal and comparative hematology.

ATE 2651L Animal Nursing & Medicine Lab I (2.00 Credits)
Prerequisite ATE 1211 with a minimum grade of C and Prerequisite ATE 1311L with a minimum grade of C and Prerequisite ATE 1654L with a minimum grade of C and Pre- or Co-requisite ATE 2611 with a minimum grade of C and Pre- or Co-requisite ATE 2631 with a minimum grade of C
This course is designed to acquaint the student with medical nursing techniques, anesthesia, and principles of radiology practices utilized in veterinary hospitals.

ATE 2653L Animal Nursing & Medicine Laboratory II (2.00 Credits)
Prerequisite ATE 2651L with a minimum grade of C
This course is a continuation of Animal Nursing and Medicine Laboratory I. Skills will be developed in veterinary anesthesia, animal nursing care, and veterinary radiology procedures.

ATE 2656L Large Animal Clinical and Nursing Skills Lab (1.00 Credits)
Pre- or Co-requisite ATE 1636 with a minimum grade of C
This course is designed to acquaint the student with the fundamentals of large animal husbandry, herd health management, preventive medicine, animal restraint and nutrition as it relates to the bovine, equine, porcine, and caprine species.

ATE 2661 Large Animal Diseases (1.00 Credits)
Prerequisite ATE 1636 with a minimum grade of C
This course is designed to acquaint the student with the fundamentals of preventative medicine and common diseases present in the large animal species. Aspects of equine, bovine, ovine and porcine diseases and common treatments will be emphasized.

ATE 2710 Animal Emergency Medicine (1.00 Credits)
Pre- or Co-requisite ATE 1211 with a minimum grade of C and Pre- or Co-requisite ATE 2651L with a minimum grade of C
This course is designed to acquaint the student with the fundamentals of emergency veterinary medicine, including identifying emergencies, veterinary emergency first aid, toxicology, as well as knowledge of assistance in specialized veterinary medical and surgical techniques relating to common emergencies.

ATE 2722L Avian and Exotic Pet Medicine (2.00 Credits)
Pre- or Co-requisite ATE 1211 with a minimum grade of C
This course is designed to acquaint the student with the fundamentals of avian and exotic pet husbandry, anatomy, physiology, management, and medicine. This course includes the following vertebrate groups as lecture topics: Parrots, Reptiles, Amphibians, Fish, and Exotic Companion Mammals.

ATE 2945 Veterinary Work Practicum III (1.00 Credits)
Prerequisite ATE 1944 with a minimum grade of C and Pre- or Co-requisite ATE 2651L with a minimum grade of C

This course consists of supervised clinical experience in a full service veterinary clinic and/or shelter approved by the instructor.

ATE 2946 Veterinary Work Practicum IV (1.00 Credits)
Prerequisite ATE 2945 with a minimum grade of C and Pre- or Co-requisite ATE 2639L with a minimum grade of C and Pre- or Co-requisite ATE 2653L with a minimum grade of C
This course consists of supervised clinical experience in a full service veterinary clinic and/or emergency clinic approved by the instructor. (Note: A minimum of 100 hours is required, at least 40 of which must be performed in an emergency clinic.)

ATE 2947 Veterinary Work Practicum V (1.00 Credits)
Prerequisite ATE 2946 with a minimum grade of C
This course consists of supervised clinical experience in a workplace approved by the instructor. A minimum of 64 hours in an approved workplace is required. (Note: This course may be taken up to four times for a total of credits. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

ATE 3052 Veterinary Technology: From Success to Safety (3.00 Credits)
Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS) or Admission to Veterinary Practice Management (Certificate with Financial Aid Eligibility) (VETTC-CT)
This course will familiarize students with the common hazards of a veterinary hospital and the ways individuals can avoid unnecessary risk. The course is designed to assist students in facilitating a safe workplace and safe work practices for personnel working in a veterinary environment. Students will be introduced to core concepts that are integral to the successful completion of the Bachelor's program. Topics will include navigating the online environment, using the SPC online library and Internet, essentials of writing and grammar, writing using American Psychological Association (APA) guidelines and an introduction to the required electronic portfolio system.

ATE 3316 Finance for the Veterinary Manager (3.00 Credits)
Admission to Veterinary Practice Management (Certificate with Financial Aid Eligibility) (VETTC-CT) or Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS)

This course teaches basic concepts of financial management, terminology, and problem-solving methods necessary to manage a veterinary organization.

ATE 3344 Supervision in the Veterinary Hospital (3.00 Credits)
Prerequisite ATE 3052 with a minimum grade of C and (Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS) or Admission to Veterinary Practice Management (Certificate with Financial Aid Eligibility) (VETTC-CT))
This course will prepare the student to manage the human resource cycle in its entirety in the veterinary hospital including the care of employees while in the organization.

ATE 3410 Dental Techniques in Veterinary Technology (3.00 Credits)
Admission to Veterinary Practice Management (Certificate with Financial Aid Eligibility) (VETTC-CT) or Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS)
This course will focus on learning and applying techniques in preventive care, periodontics, endodontics, orthodontics and dental radiology appropriate for veterinary technicians. The student will acquire knowledge of dental diseases, diagnostic techniques, and therapeutic technique and equipment.

ATE 3510 Understanding the Human-Animal Bond (3.00 Credits)
Admission to Biology (Bachelor of Science) (BIOLOGY-BS) or Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS)
This course will focus on human-companion animal interactions. Students will relate to animal-assisted therapy/activity, care and uses of service animals and humane education programs.

ATE 3515 Legal & Ethical Issues in Veterinary Technology (3.00 Credits)
(Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS) or Admission to Veterinary Practice Management (Certificate with Financial Aid Eligibility) (VETTC-CT)) and Prerequisite ATE 3052 with a minimum grade of C
This course is part of the managerial track in the BAS program in veterinary technology. It will give the student an understanding of the legal and ethical aspects of veterinary practice.

ATE 3605 Small Animal Nutrition (3.00 Credits)
Admission to Biology (Bachelor of Science) (BIOLOGY-BS) or Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS)
This course provides identification and function of nutrients, understanding of pet food labels, and applications for wellness, life stages, and therapeutic nutrition (prescription foods) for dogs and cats.

ATE 3615 Veterinary Pharmacology (3.00 Credits)
Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS)
This course develops the concepts of pharmacology essential in understanding the advanced clinical courses of the baccalaureate program. The veterinary tech will learn both the scientific fundamentals and the practical applications of pharmacology. The course will explore the most commonly used classes of drugs, the applications to each body system and the record keeping responsibilities involved in handling and prescribing medications, including controlled substances. Students will achieve mastery of concepts through completion of exams, written assignments and case studies.

ATE 3616 Small Animal Nursing (3.00 Credits)
Prerequisite ATE 3615 with a minimum grade of C
This course will focus on the nursing care required by companion animals as the result of disease or neonatal, geriatric, and obstetrical needs.

ATE 3617 Companion Animal Diseases (3.00 Credits)
Pre- or Co-requisite ATE 3615 with a minimum grade of C
This course is designed to provide the student with essential knowledge of the common diseases affecting companion animals. Students will learn the basics of recognizing diseases. Clinical signs, diagnostic tests and appropriate client education will be highlighted. The course will emphasize dogs and cats, but will also include other companion species including birds, ferrets and rodents.

ATE 3621 Integrative Veterinary Nursing (3.00 Credits)
Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS)

This course provides an overview of American Veterinary Medical Association (AVMA) recognized alternative and complementary therapies being used in veterinary medicine today. Emphasis will be on exploring the history, philosophy, application and research supporting each selected modality. (ATE 3621 updated per SCNS; this course previously had a course number of ATE 3601).

ATE 3658 Anesthesia and Surgical Nursing (3.00 Credits)
Prerequisite ATE 3615 with a minimum grade of C
This course will focus on anesthesia and surgical procedures associated with providing anesthesia and surgical services to veterinary patients, including anesthetic, pre-surgical, surgical, and post-surgical procedures.

ATE 3803 Teaching Techniques for Veterinary Technicians (3.00 Credits)
Admission to Veterinary Practice Management (Certificate with Financial Aid Eligibility) (VETTC-CT) or Permission of the Program
This course is designed to provide the student with an introduction to educational concepts and theory relative to effective communication in many veterinary settings. Topics included are development and design of training materials, designing goals and objectives for training materials, client instruction, principles of learning, learning styles and motivation, case-based learning, and using media and software. Emphasis will be on presenting the basic concepts of planning, development and evaluation of presentations and materials.

ATE 3914 Introduction to Veterinary Technology Research (3.00 Credits)
Prerequisite ATE 3052 with a minimum grade of C and Prerequisite ATE 3615 with a minimum grade of C
This course is an overview of the role and scope of research as it relates to the formation of veterinary technology knowledge and the application to veterinary technology practice. The focus is on basic strategies, methodology, and the types of research design. Critiquing of current veterinary technology research is included.

ATE 4051 Advanced Veterinary Behavior (3.00 Credits)
Admission to Veterinary Practice Management (Certificate with Financial Aid Eligibility) (VETTC-CT) or Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS)
This course will introduce the student to tasks expected of a technician working at a veterinary practice where behavior cases are evaluated. Tasks to include: phone triage, collecting behavioral history, implementing a behavior plan and follow up calls and visits. Animal learning and communication of dogs and cats will be covered as well as basic psychopharmacology. Student projects will include keeping a log of observed animal behavior and designing a behavioral education program.

ATE 4317 Veterinary Hospital Management (3.00 Credits)
(Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS) or Admission to Veterinary Practice Management (Certificate with Financial Aid Eligibility) (VETTC-CT)) and Prerequisite ATE 3052 with a minimum grade of C
This course will give the student an overview of business subjects that will be applicable in any business environment but with particular emphasis in veterinary medicine.

ATE 4319 Veterinary Hospital Marketing (3.00 Credits)
Admission to Veterinary Practice Management (Certificate with Financial Aid Eligibility) (VETTC-CT) or Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS)
This course will give the student an overview of pricing, advertising, product and service positioning, and marketing research methods for the veterinary hospital.

ATE 4637 Advanced Veterinary Nursing: Patient Care for Hospice, Hospitalized and Surgical Patients (3.00 Credits)
Prerequisite ATE 3615 with a minimum grade of C

This online course is designed for baccalaureate veterinary technology students seeking advanced knowledge and skills in patient care, anesthesia, and surgical assistance. Based on standards set by the Academy of Internal Medicine Veterinary Technicians (AIMVT), Academy of Veterinary Technicians in Anesthesia and Analgesia (AVTAA), and Academy of Veterinary Surgical Technicians (AVST), the course integrates theoretical foundations and practical applications essential for a comprehensive understanding of veterinary nursing practices. Students will direct virtual patients' nursing care by creating nursing plans and case reports. Cases will be challenging, frequently involving multiple tests and procedures to reach a diagnosis. Students completing this course will be better prepared to begin the process of earning a specialty veterinary technology certification.

ATE 4701 One Health and the Veterinary Technologist (3.00 Credits)
Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS) or Permission of the Program

This course is designed to introduce veterinary technology students to the principles and practices of One Health. Emphasizing the role of veterinary professionals in the interconnectedness of human, animal, and environmental health, the course covers topics such as zoonotic diseases, animal welfare and food production, environmental health, and collaborative strategies for addressing health challenges.

ATE 4711 Emergency and Critical Care (3.00 Credits)
Admission to Veterinary Practice Management (Certificate with Financial Aid Eligibility) (VETTC-CT) or Permission of the Program
This course will focus on learning and applying emergency and critical care techniques appropriate for veterinary technicians. The student will acquire knowledge of the proper use of drugs, fluids, and equipment for emergency and critical care patients. Students will also learn to evaluate and monitor these patients.

ATE 4850 Communication & Professionalism in Veterinary Nursing (3.00 Credits)
Prerequisite ATE 3052 with a minimum grade of C
Good communication is critical to any veterinary professional's success. There are few things as vital to professional success as the ability to communicate. Even in a profession focused on animals, communicating effectively is vital not only to personal success but for the success of the organization. Good communication skills build client, staff, and community relationships. These skills have been identified as lacking in the profession. ATE 4850, Communication and Professionalism for Veterinary Nurses, targets basic communication skills including verbal and non-verbal communication and active listening. It includes important variables such as generational, gender, and cultural differences and compassionate communications that increase the need for effective communication. This course also focuses on professionalism for the veterinary team taking into account the paradigm shift in that pet owners now view their companion animals as family and have expectations of professional behavior by their veterinary care givers.

ATE 4854 Leadership in Veterinary Technology (3.00 Credits)
Prerequisite ATE 3052 with a minimum grade of C and (Admission to Veterinary Practice Management (Certificate with Financial Aid Eligibility) (VETTC-CT) or Admission to Veterinary Technology (Bachelor of Applied Science) (VETTC-BAS))
This course focuses on the theories, concepts and principles of leadership. Emphasis will be on the development of leadership skills related to personal behavior, communication, organization and self-examination. This course explores opportunity to develop leadership roles appropriate to the veterinary technology profession.

ATE 4940 Veterinary Technology Capstone Practicum (6.00 Credits)
Prerequisite ATE 3052 with a minimum grade of C and Prerequisite ATE 3515 with a minimum grade of C and Prerequisite ATE 3615 with a minimum grade of C and Prerequisite ATE 4854 with a minimum grade of C
Veterinary Technology Capstone is an applied course which allows the student to utilize the knowledge gained in earlier courses in the curriculum to expand leadership opportunities within the profession. Students will use this opportunity to investigate an area of veterinary technology that is new to them through a practicum. They will design a professional experience through volunteerism and/or work experience that will consist of a minimum of 80 hours during the semester. The student will create and implement their own learning contract which will define the scope of the practicum. The practicum proposal must be approved by the professor, who will guide the student through the experience. The student will use approved off-campus sites to implement the hands-on portion of the project. Students will employ critical thinking skills by formulating a problem statement that will be the foundation of the practicum experience.

## BCH-BioChemistry (BioPhysics)

BCH 4024 Biochemistry (4.00 Credits)
Prerequisite CHM 2211 with a minimum grade of C and Prerequisite PCB 3063 with a minimum grade of C
This course is an introduction to biochemistry and intermediary metabolism. Topics include an overview of chemical interactions in aqueous environments, properties of water, acids, bases, buffers and the laws of thermodynamics. Additional topics include surveys of structure, functional properties, synthesis, degradation and chemistry of the major groups of biologically important organic molecules (amino acids, proteins, carbohydrates, lipids and nucleic acids). Topics include enzyme kinetics and mechanisms of catalysis, a survey of the pathways of carbohydrate, lipid and nitrogen metabolism and their metabolic control, and the role of metabolic pathway integration in physiological homeostasis; regulation of gene expression at the level of DNA, RNA, and protein synthesis. This course will include discussion sessions and problem solving of experimental data that teach interpretation of current biochemical theories and techniques.

## BCN-Building Construction

BCN 1050 Building Specifications (1.00 Credits)
No Requisites Required
This course is an introduction to the professional written requirements of contracts, plans and specifications which are legal documents governing the construction of buildings. Discussions will include the Uniform Construction Index, data filing systems, data organization and format, Sweet's Catalog Files and Standardized Software.

BCN 1251C Construction Drawing (3.00 Credits)
No Requisites Required
This course is an introduction to the tools and techniques used in producing hand-drafted construction drawings. Emphasis is on residential construction.

BCN 1272 Blueprint Reading (2.00 Credits)
No Requisites Required
This course is an introduction to the reading and interpretation of architectural working drawings. Topics include history of recorded drawings, architectural and structural details, materials, structural, mechanical and electrical systems and related building code requirements. Emphasis is on residential plans.

BCN 1480 Hurricane Resistant Design for Residential Construction (1.00 Credits)
No Requisites Required
This course is an overview of the design and construction of hurricane-resistant structures for contractors and builders. Topics covered will include the impact of recent hurricanes on the construction industry, basic engineering principles (wind loads, shear walls, diaphragms, uplift, overturning, etc.), structural failure, waterproof construction (roofing, storm surge, doors and windows, etc.) and insurance topics. Emphasis will be on new code requirements and construction techniques for residential construction.

BCN 1592 Energy Efficient Building Construction for Florida's Climate (3.00 Credits)
Prerequisite REA 0007
This is an introductory course to designing and building energy efficient structures for Florida’s sub-tropical and tropical climates. This course will investigate strategies, elements and devices that have been used successfully, in both historic and contemporary context, to enhance human comfort with less impact on the environment.

BCN 1593 A Building's Life (2.00 Credits)
Prerequisite REA 0001
This course investigates the ever-evolving lifespan of a building, from the original site, through its construction and use, until its ultimate demolition and memory. The topics include how a building evolves over time, the environmental benefits of renovating an existing structure, and how a building’s adaptation over time can be beneficial to the environment.

BCN 1596 Environmental Technology for Building Construction (2.00 Credits)
Prerequisite REA 0007
This course is an introduction to technological aspects of building design which relate to human comfort and safety and to the efficiency of building performance in consumption of energy.

BCN 1597 An Introduction to Solar Energy in Residential Construction (3.00 Credits)
Prerequisite REA 0001
This course is an introduction to the characteristics of solar energy and the passive and active uses of solar energy in heating and cooling situations in typical, residential construction. The course explores the characteristics of solar energy, its adaptation by the earth’s atmosphere, and current and future methods available to harness, control, and best utilize this source of energy. The course emphasizes the potential advantages available in the sustainability of this natural resource. The course will focus on the climate of the southeastern United States.

BCN 1940 Construction Practicum (3.00 Credits)
Permission of the Program
This course is an intensive study in an area of special interest to the students in the Building Arts programs. Students will demonstrate professional competencies in the documentation and completion of an approved, “hands-on” project that may incorporate multiple aspects of the construction industry, including drawing, estimating, scheduling, permitting and/or construction.

BCN 2052 Masonry Construction Methods (1.00 Credits)
No Requisites Required
This course is a survey of the basic principles and methods used in the construction of concrete block and brick masonry structures. Topics include materials, properties, products, accessories and reinforcing steel used in masonry construction.

BCN 2053 Roofing Systems (1.00 Credits)
No Requisites Required
This course is a survey of roofing systems used in construction. Topics include materials, products, accessories, underlayments, substrates, flashing, code applications and construction methods for membrane, composition shingle, tile, metal and wood roofing systems.

BCN 2054C Construction Surveying Methods (3.00 Credits)
Prerequisite Any college-level math course with an MAC, MAT, MGF, or STA prefix with a minimum grade of "C."
This course is an overview of the basic principles and methods used in surveying as related to building construction, including general surveying principles, site surveys, contours, elevations, building layout, and levels.

BCN 2055 Concrete Construction Methods (1.00 Credits)
No Requisites Required
This course is a survey of the basic principles and methods used in the construction of buildings in which the primary structural system is reinforced concrete.

BCN 2056 Steel Construction Methods (1.00 Credits)
No Requisites Required
This course is a survey of the basic principles and methods used in the construction of buildings in which the primary structural system is steel.

BCN 2068 The A.D.A.: Primer for Contractors (1.00 Credits)
No Requisites Required
This course is an introduction to the requirements of the "Americans with Disabilities Act (ADA)" as it relates to the design of new and the renovation of existing buildings.

BCN 2732 Occupational Safety and Health (OSHA) Standards for the Construction Industry (1.00 Credits)
No Requisites Required
This course is an overview of the Occupational Safety and Health Act (OSHA) and its relationship to the construction industry. Topics include history, general OSHA standards, job safety, health hazards, fire protection and prevention, material storage, handling, use and disposal, and hand and power tools.

BCN 2949 Co-op Work Experience (1.0-3.00 Credits)
Permission of the Program
This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. Variable credits are available, one to three per course. (Note: The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments. This course may be taken up to 12 times for a total of 12 credits.)

BCN 3225C Soil Mechanics and Foundations (3.00 Credits)
Pre- or Co-requisite MAC 1114 with a minimum grade of C
This course focuses on the study of the physical properties and behavior of soils used in construction. Topics include soil classification, compaction, permeability, shear strength, consolidation, and foundation bearing capacity. Laboratory work includes field sampling, testing, and data interpretation using applied physics and trigonometric principles.

BCN 3412C Statics and Strengths of Materials (3.00 Credits)
Pre- or Co-requisite MAC 1114 with a minimum grade of C
This course focuses on the study of force systems, moments, and equilibrium of construction components. Topics include vector resolution, free-body diagrams, supports, centroid, and friction. Laboratory applications emphasize hands-on problem-solving using algebra and trigonometry—no calculus or prior physics required.

BCN 3451C Structures (3.00 Credits)
(Prerequisite ARC 2461C with a minimum grade of C or Prerequisite BCN 1592 with a minimum grade of C or Prerequisite BCN 1596 with a minimum grade of C or Prerequisite BCN 1597 with a minimum grade of C or Prerequisite BCN 2054C with a minimum grade of C or (BCN 2052 and BCN 2053 and BCN 2055 and BCN 2056 all with a minimum grade of C) ) and Admission to Construction Technology (Bachelor of Applied Science) (BCNST-BAS) and Prerequisite BCN 3412C with a minimum grade of C and Prerequisite BCN 3225C with a minimum grade of C

This course introduces the principles of structural behavior and the application of building codes to construction practice. Students will examine the properties and performance of major structural materials—wood, steel, and reinforced concrete—and learn how these materials are used in framing systems such as beams, columns, slabs, footings, and retaining walls. Emphasis is placed on interpreting structural drawings, understanding load paths, and applying the Florida Building Code (FBC) to identify and verify code-required design loads. Topics include the coordination of structural elements during construction, temporary support systems, and inspection practices to ensure conformance with design intent and safety standards. Completion of ARC 2461 is recommended to be successful in this course.

BCN 3568C MEPF Systems in Construction (3.00 Credits)
Admission to Construction Technology (Bachelor of Applied Science) (BCNST-BAS)

This course provides an in-depth study of the operational principles and construction practices related to a building's mechanical, electrical, plumbing, and fire protection (MEPF) systems. Students will develop knowledge and skills in analyzing MEPF drawings for budgetary estimate preparation, subcontract scope development, project control and management. Course must be completed with a grade of "C" or higher. Completion of ARC 2461 is recommended to be successful in this course.

BCN 3724C Advanced Construction Scheduling and Planning (3.00 Credits)
Admission to Construction Technology (Bachelor of Applied Science) (BCNST-BAS) and (Prerequisite BCT 1770 with a minimum grade of C or Prerequisite BCN 1251C with a minimum grade of C) and Pre- or Co-requisite BCN 3451C with a minimum grade of C

This course provides an advanced study of construction scheduling and planning methods used to plan, monitor, and control complex construction projects. Emphasis is placed on Critical Path Method (CPM) development, schedule logic, resource planning, risk-informed scheduling, and schedule control techniques consistent with industry best practices and Project Management Institute (PMI) Construction Professional (PMI-CP) principles. Students develop and analyze detailed construction schedules that reflect means and methods, sequencing constraints, procurement lead times, and execution risks. The course focuses on schedule quality, realism, and decision-making, rather than software operation alone. Students evaluate baseline schedules, perform updates, assess impacts of changes and delays, and develop recovery strategies to maintain project objectives. Completion of BCN 1701 is recommended to be successful in this course.

BCN 3730 Construction Safety Management (3.00 Credits)
No Requisites Required
The emphasis of this course is construction safety, requirements and procedures associated with the Occupational Safety and Health Administration (OSHA). Students will learn how to effectively manage safety including planning, inspections, prevention and the administration of safety processes on the job site. In addition, the students will be responsible for creating a project specific construction safety plan. Students will be encouraged to complete the OSHA 30-Hour Construction certification concurrently.

BCN 3740 Construction Laws and Contracts (3.00 Credits)
No Requisites Required

This course equips Construction Technology students with knowledge of contracts, law, risk management, and dispute resolution.  Through case studies and drafting exercises, students learn to ensure compliance, manage legal obligations, and apply ethical, professional standards in real-world construction projects.

BCN 4316C Virtual Design and Construction (3.00 Credits)
Admission to Construction Technology (Bachelor of Applied Science) (BCNST-BAS)

This course introduces students to Virtual Design and Construction (VDC) principles and their application to planning, coordination, and execution of construction projects. Emphasis is placed on the use of digital models as decision-support tools, integrating geometry, data, and workflow to improve constructability, coordination, and project outcomes. Students apply Building Information Modeling (BIM) and related digital technologies to analyze design intent, detect conflicts, evaluate construction sequencing concepts, and support collaboration among project stakeholders. The course focuses on model-based thinking, information flow, and constructability, rather than on software proficiency alone. Prior completion of AutoCAD or Revit courses is highly recommended for success in this course.

BCN 4317C Virtual Augmented and Mixed Reality in Construction (3.00 Credits)
Admission to Construction Technology (Bachelor of Applied Science) (BCNST-BAS)

This course introduces students to the use of Virtual Reality (VR), Augmented Reality (AR), and Mixed Reality (MR) technologies in construction project planning, coordination, and execution. Emphasis is placed on immersive visualization, real-time collaboration, and enhanced decision-making, enabling students to evaluate construction designs and workflows in an interactive environment. Prior completion of AutoCAD or Revit courses is highly recommended for success in this course.

BCN 4612C Advanced Construction Estimating (3.00 Credits)
Admission to Construction Technology (Bachelor of Applied Science) (BCNST-BAS) and Prerequisite BCT 1770 with a minimum grade of C and Pre- or Co-requisite BCN 3451C with a minimum grade of C

This upper-division course focuses on advanced estimating methods for commercial and complex building projects, emphasizing quantity-based, assemblies-based, and conceptual estimating techniques used during pre-construction. Students synthesize construction documents, specifications, historical cost data, and production information to develop defensible, auditable cost estimates across multiple project phases. The course emphasizes scope definition, estimating strategy selection, risk and contingency modeling, indirect cost development, escalation, and estimate validation. Students apply professional standards for estimate organization, documentation, and communication, producing estimates suitable for owner review, internal decision-making, and bid submission.

BCN 4709C Construction Project Management (3.00 Credits)
Admission to Construction Technology (Bachelor of Applied Science) (BCNST-BAS) and Pre- or Co-requisite BCN 4612C with a minimum grade of C and Prerequisite BCN 3451C with a minimum grade of C and Prerequisite BCN 3568C with a minimum grade of C and Prerequisite BCN 3740 with a minimum grade of C and Prerequisite BCN 3724C with a minimum grade of C

This course serves as the first capstone experience for the BAS Construction Technology program. Students integrate knowledge and skills from prior coursework—including Advanced Estimating, Advanced Scheduling & Planning, Construction Financing, Virtual Design, and Immersive Technologies—to plan, manage, and control a comprehensive construction project. Emphasis is placed on executive-level decision-making, integrated project delivery, risk management, and team leadership. Students act as project managers overseeing a multidisciplinary simulated project from pre-construction through early execution stages. This capstone bridges applied theory and professional practice, preparing students for real-world construction management responsibilities.

BCN 4753 Construction Financing (3.00 Credits)
Admission to Construction Technology (Bachelor of Applied Science) (BCNST-BAS)
This course introduces students to the financial principles, capital structures, funding mechanisms, and cash flow management required for construction projects. Students will learn to analyze project budgets, financing options, loan structures, and investment returns to ensure financial viability throughout the project life cycle. The course emphasizes applied financial decision-making for construction managers, including cost-to-complete analysis, draw schedules, contingency funding, bonding, and insurance considerations. Students will also evaluate risk and return, lender requirements, and project feasibility using industry-standard methods and software.

BCN 4787C Construction Capstone Project (3.00 Credits)
Admission to Construction Technology (Bachelor of Applied Science) (BCNST-BAS) and Prerequisite BCN 4709C with a minimum grade of C

This course represents the second capstone experience for the BAS Construction Technology program, focusing on full-scale project execution, field management, and closeout. Students apply knowledge and skills from prior coursework—including estimating, scheduling, financing, visual design and construction (VDC), immersive technologies, and project management (BCN 4709C)—to simulate or manage a comprehensive construction project from mobilization through completion. Emphasis is placed on field coordination, quality control, contract administration, cost and schedule monitoring, safety management, and final project documentation. Students will act as lead construction managers or superintendents, managing resources, subcontractors, and stakeholders in an applied, project-based environment.

This course complements BCN 4709 by transitioning from planning and preconstruction focus to hands-on execution, monitoring, and closeout, while maintaining alignment with BAS program learning outcomes.

## BCT-Building Construction Trades

BCT 1760 Building Codes (2.00 Credits)
No Requisites Required
This course is an introduction to the Florida Building Code and local zoning codes which are laws governing the construction of buildings. Other documents are discussed including: National Electric Code, Life Safety Code, the Standard Building Code, testing agencies, accessibility and governmental agencies which impact on the construction industry.

BCT 1770 Construction Estimating (3.00 Credits)
Prerequisite ARC 2461C with a minimum grade of C and ((Prerequisite BCN 1272 with a minimum grade of C or Prerequisite BCN 1251C with a minimum grade of C) or Permission of the Program )
This course is an introduction in computations for labor, materials, equipment, overhead, and profit for residential construction projects. "Take offs" will be made from working drawings.

BCT 1781 Advanced Estimating, Scheduling, and Project Management Tools (3.00 Credits)
Prerequisite BCT 1770 with a minimum grade of C
This course is an in-depth continuation of Construction Estimating, Scheduling and Project Management. Emphasis will be on the use and application of industry leading estimating computer software, such as BuilderTrend, Co-Construct, PROCORE, etc..

## BME-Biomedical Engineering Technology

BME 1008C Introduction to Biomedical Engineering Technology (3.00 Credits)
No Requisites Required
Students will be introduced to electrical safety testing, patient monitoring, medical treatment devices, and medical imaging. In addition, students will explore and research topics related to medical device history, biomaterials, biomechanics, and biomedical ethics. Students will work on projects in the biomedical engineering technology laboratory using actual medical devices and equipment.

BME 2930 Special Topics in Biomedical Engineering (1.00 Credits)
Prerequisite ETS 1412C with a minimum grade of C and Pre- or Co-requisite ETS 2424C with a minimum grade of C
This course is an exploration of current and emerging biomedical engineering technologies that may be encountered in the workplace. It also prepares students interested in pursuing the CBET certification after graduation.

## BOT-Botany

BOT 3015 Plant Biology (3.00 Credits)
Prerequisite BSC 2011 with a minimum grade of C and Prerequisite BSC 2011L with a minimum grade of C and Pre- or Co-requisite BOT 3015L with a minimum grade of C
This course explores evolutionary and ecological relationships through the systematics, taxonomy, morphology and physiology of plants, fungi, and autotrophic protists. NOTE: Credit is not given for both (BOT 3015C) and (BOT 3015/BOT 3015L).

BOT 3015L Plant Biology Lab (1.00 Credits)
Pre- or Co-requisite BOT 3015 with a minimum grade of C
This is a laboratory experience to accompany Plant Biology. The lab will emphasize the systematics, taxonomy, morphology and physiology of plants, fungi, and autotrophic protists. (Note: Credit is only given for BOT 3015C or (BOT 3015/BOT 3015L)).

BOT 3143C Field Botany With Lab (4.00 Credits)
(Prerequisite BSC 2010 and (Prerequisite BSC 2010L or Prerequisite BSC 2010CH) ) and (Prerequisite BSC 2011 and Prerequisite BSC 2011L)
This course is a field study of the plants of Florida with emphasis on the methods of plant identification, the characteristics of major plant families, collecting techniques, taxonomic relationships of plant groups, plant ecology and conservation. Labs consist of field trips to local natural areas and will introduce students to the plant species of the region, their habitats, and relations to other species.

## BRC-Banking Related (Not AIB)

BRC 2001 Principles of Financial Services-Banking (3.00 Credits)
No Requisites Required
This course is designed to provide an introduction to financial institutions and the services offered within those institutions. Topics will include principles related to the history, growth, and structure of the financial industry, basic functions of financial institutions, basic skills necessary to perform in financial institutions, security and fraud detection procedures, real estate, and mortgage lending. Banking institutions will be emphasized.

BRC 2062 Introduction to Financial Markets and Money (3.00 Credits)
No Requisites Required
This course examines the characteristics of money, monetary policy, and the Federal Reserve System. Students will further examine the saving and investment process, interest rates, and securities markets.

## BSC-Biological Sciences

BSC 1005C Biological Sciences with Lab (3.00 Credits)
Prerequisite ENC 1101or equivalent with a C or better.

This course applies the scientific method to critically examine and explain the natural world including but not limited to cells, organisms, genetics, evolution, ecology, and behavior. ***State Core Course Description (State Rule 6A-14.0303).*** **This course satisfies the Natural Sciences General Education Core.**

(Note: Credit is only given for (BSC 1005 and BSC 1005L) or (BSC 1005C or BSC 1005CH).

BSC 1005CH Honors Biological Sciences with Lab (3.00 Credits)
Prerequisite ENC 1101or equivalent and Permission of the Program Honors Program

This course applies the scientific method to critically examine and explain the natural world including but not limited to cells, organisms, genetics, evolution, ecology, and behavior. ***State Core Course Description (State Rule 6A-14.0303).***

BSC 1083 Human Anatomy (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C
This course is a study of the general and specific structural anatomy of the human body. The systems approach is used, examining each major body system in detail. The systems covered include integumentary, skeletal, muscular, nervous, sensory, reproductive, endocrine, cardiovascular, lymphatic, respiratory, digestive, and urinary.

BSC 1084C Essentials of Human Anatomy & Physiology (4.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite MAT 0028) or Prerequisite appropriate scores on the college placement test
This one semester combined lecture/laboratory course is a study of the general and specific structural anatomy and physiology of the human, including the requisite principles of chemistry that influence homeostasis. The systems approach is used incorporating chemical functions with human structure, from the cell to the entire organism. Each system is presented in sufficient depth to provide a comprehensive understanding of systems for students in the life and health sciences. The systems covered include integumentary, skeletal, muscular, nervous, reproductive, endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, and urinary. This course is not intended for pre-nursing, pharmacy, dentistry, medicine, physician assistant, dental hygiene students or biology majors. Health program director approval is advised for other programs. (Note: This course cannot be substituted for BSC 2085/2085L and/or BSC 2086/2086L and it may not satisfy pre-entry requirements for certain health programs.)

BSC 1930 Biological Issues (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite MAT 0028) or Prerequisite appropriate score on the college placement test
This course is designed to allow the student an opportunity to investigate current biological issues of importance to society through lecture and discussion. Issues may include, but are not limited to, methods of science, ethical issues in science, biological impact of environmental change, genes and genomes, biodiversity and evolution, populations, ecology and conservation of species and natural habitats, sociobiology, reproductive strategies, and the biological basis of cancer, AIDS and other diseases.

BSC 2010 Biology I Cellular Processes (3.00 Credits)
(Prerequisite CHM 1025 with a minimum grade of C and Prerequisite CHM 1025L with a minimum grade of C) or (Prerequisite Appropriate passing score on Chemistry placement exam and Prerequisite ENC 1101or equivalent and Pre- or Co-requisite BSC 2010L with a minimum grade of C)

In this course students will apply the scientific method to critically examine and explain the natural world. This course will cover molecular biology, cellular biology, genetics, metabolism, and replication. ***State Core Course Description (State Rule 6A-14.0303).*** This course is designed for science majors and to prepare the student for Biology II and must be taken in sequence. **This course satisfies the Natural Sciences General Education Core.**

BSC 2010CH Honors Biology I Cellular Processes with Laboratory (4.00 Credits)
(Prerequisite ENC 1101 with a minimum grade of C and Prerequisite CHM 1025 with a minimum grade of C and Prerequisite CHM 1025L with a minimum grade of C) or Acceptance into the Honors College

In this course students will apply the scientific method to critically examine and explain the natural world. This course will cover molecular biology, cellular biology, genetics, metabolism, and replication. ***State Core Course Description (State Rule 6A-14.0303).*** **This course satisfies the Natural Sciences General Education Core.**

BSC 2010L Biology I Cellular Processes Laboratory (1.00 Credits)
Pre- or Co-requisite BSC 2010 with a minimum grade of C
This is a laboratory experience to accompany Biology I. Laboratory exercises related to cellular biology are studied in detail and include: basic biochemistry, cell structure and function, molecular biology, and genetics.

BSC 2011 Biology II Organisms & Ecology (3.00 Credits)
(Prerequisite BSC 2010 with a minimum grade of C and Prerequisite BSC 2010L with a minimum grade of C) or (Prerequisite BSC 2010CH and Pre- or Co-requisite BSC 2011L)
The biological topics related to organisms and their environment are studied in detail. These topics include taxonomy, systematics, physiology, reproduction, ecology, and evolution.

BSC 2011L Biology II Laboratory (1.00 Credits)
(Prerequisite BSC 2010 and Prerequisite BSC 2010L) or (Prerequisite BSC 2010CH and Pre- or Co-requisite BSC 2011)
This is a laboratory experience to accompany Biology II. Laboratory exercises related to organisms and their environment are studied in detail and include: ecology, taxonomy, physiology, reproduction, and evolution.

BSC 2085 Human Anatomy & Physiology I (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C and Pre- or Co-requisite BSC 2085L

This course is the first part of a two-semester sequence in which students examine human anatomy and physiology through a systems approach based on the interaction between form and function, from the microscopic components of cells and tissues to the organismal level. Emphasis is placed on histology and the integumentary, skeletal, muscular, and nervous systems. ***State Core Course Description (State Rule 6A-14.0303).*** **This course satisfies the Natural Sciences General Education Core.**

BSC 2085L Human Anatomy & Physiology Lab I (1.00 Credits)
Pre- or Co-requisite BSC 2085 with a minimum grade of C
This is the laboratory component of BSC 2085 which provides opportunities for students to reinforce their knowledge of human anatomy and physiology and learn human anatomy and physiology from a laboratory perspective. The course will use a lab-based systems approach, with an emphasis on integrated structure-function relationships at the cell, tissue, organ and organ systems level. Laboratory component includes studies using microscopy of human and animal tissues, skeletons, models, video film clips and the study of physiological concepts via experimentation or simulations using the metric system. The systems studied include integumentary, skeletal, muscular and nervous

BSC 2086 Human Anatomy & Physiology II (3.00 Credits)
Prerequisite BSC 2085 with a minimum grade of C and Prerequisite BSC 2085L with a minimum grade of C and Pre- or Co-requisite BSC 2086L
This course is a continuation of Human Anatomy & Physiology I. This course is a study of the general and specific structural anatomy and physiology of the human, including the requisite principles of chemistry that influence homeostasis. The systems approach is used; incorporating chemical functions with human structure, from the cell to the entire organism. Each system is presented in sufficient depth to provide a comprehensive understanding of systems for students in the life and health sciences. The systems covered include endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary and reproductive.

BSC 2086L Human Anatomy & Physiology Laboratory II (1.00 Credits)
Prerequisite BSC 2085 with a minimum grade of C and Prerequisite BSC 2085L with a minimum grade of C and Pre- or Co-requisite BSC 2086 with a minimum grade of C
This is the laboratory component of BSC 2086 which provides opportunities for students to reinforce their knowledge of human anatomy and physiology and learn human anatomy and physiology from a laboratory perspective. The course will use a lab-based systems approach, with an emphasis on integrated structure-function relationships at the organ systems level. Laboratory component includes studies using microscopy of human and animal tissues, models, video film clips and the study of physiological concepts via experimentation or simulations. The systems studied include lymphatic, endocrine, respiratory, digestive, cardiovascular, urinary, reproductive and genetics. 45 contact hours.

BSC 2250C Field Biology of Florida with Lab (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite MAT 0028) or Prerequisite satisfactory score on the SPC Placement Test.
This course emphasizes field-laboratory recognition and environmental relationships of the plants and animals of Florida. Lectures will emphasize basic ecological concepts while the laboratory experience will emphasize identification of representative forms of life of the various biotic communities of the Florida Suncoast. Natural and artificial biological communities will be visited. Two lecture hours and one three-hour laboratory weekly. Extensive time will be spent outdoors. Students may be expected to provide their own transportation to off-campus locations.

BSC 2362 Field Ecology (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0018) or (Prerequisite EAP 1695 and Prerequisite MAT 0028) or Appropriate scores on the SPC Placement Test or Permission of the Program

This course emphasizes field recognition and observation of ecological relationships of plants and animals in various ecological systems (site specific). Lectures will emphasize basic ecological concepts, such as the niche concept, symbiosis, competition, trophic structure, evolutionary relationships, co-evolution and predation, with field components that will emphasize identification of representative forms of life of various ecological ecosystems in a study country worldwide. Natural and artificial biological communities will be visited. This course may not be offered every session. Contact a Natural Science Program Director for availability and duration. This course may be repeated with permission of the program director for a total of 9 credits in GPA. Note: Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

BSC 2419C Cell Culture (3.00 Credits)
Prerequisite BSC 2426C with a minimum grade of C or (Prerequisite MCB 2010 with a minimum grade of C and (Prerequisite MCB 2010L with a minimum grade of C or Prerequisite MCB 2010CH with a minimum grade of C) ) or (Prerequisite MCB 3020 with a minimum grade of C and (Prerequisite MCB 3020L with a minimum grade of C or Prerequisite MCB 3020C with a minimum grade of C))
This course introduces the skills used in the biotechnology industry for plant and animal cell culture. This course emphasizes hands on training in the principles and practices of cultivation, maintenance and preservation of established cell lines including implementation of these practices in project design and management.

BSC 2420 Introduction to Biotechnology (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C
This lecture course serves as an introduction to the concepts, infrastructure and a survey of the multiple disciplines within the biotechnology industry. The major areas of biotechnology that will be covered include molecular biology, nucleic acid purification, recombinant DNA technology, protein biochemistry, forensics and use of animal and plant models in agricultural, marine, bioredmediation and biomedical applications. Emphasis will also be placed on ethics and regulations within the specified disciplines as well as current topics and local job opportunities.

BSC 2426C Biotechnology Methods I (4.00 Credits)
(Prerequisite BSC 2010 with a minimum grade of C and (Prerequisite BSC 2010L with a minimum grade of C or Prerequisite BSC 2010CH with a minimum grade of C) ) and Pre- or Co-requisite BSC 2420 with a minimum grade of C
This laboratory course is designed to provide extensive hands-on application of standard biotechnology laboratory techniques. This is the first of two sequential Biotechnology laboratory courses. The primary focus of this course is basic molecular biology concepts and techniques. Practical, hands-on instruction will provide students with basic skills preparing them for job placement as an entry level laboratory technician. These skills include, but are not limited to: following and developing standard operating protocols, keeping accurate lab and management records, following state/national laboratory safety procedures and implementing laboratory-relevant mathematics used in routine chemical preparation, experimental procedures and data analysis. Laboratory techniques will focus on the extraction and manipulation of nucleic acids including industry-relevant applications of recombinant DNA technology. Proficiency in use of commonly used biotechnology lab equipment and data analysis instrumentation will also be emphasized.

BSC 2427C Biotechnology Methods II (4.00 Credits)
Prerequisite BSC 2426C with a minimum grade of C
This laboratory course is designed to provide extensive hands on application of standard protein biotechnology laboratory techniques. This is the second of two sequential Biotechnology laboratory courses. The primary focus of this course is basic protein biochemistry concepts and techniques. Practical, hands-on instruction will provide students with basic skills preparing them for job placement as an entry level laboratory technician. These skills include but are not limited to following and developing standard operating protocols, keeping accurate lab and management records, following state/national laboratory safety procedures and implementing laboratory-relevant mathematics used in routine chemical preparation, experimental procedures and data analysis. Laboratory techniques will focus on protein structure, isolation, purification and characterization. Experimentation areas will focus on immunobiological assays, including the use of monoclonal and polyclonal antibodies in western blotting and antigen detection assays. Protein separation, analysis and interactions will also be addressed. Proficiency in use of common biotechnology lab equipment and data analysis instrumentation will also be emphasized.

BSC 2435 Introduction to Bioinformatics (3.00 Credits)
(Prerequisite BSC 2010 with a minimum grade of C and (Prerequisite BSC 2010L with a minimum grade of C or Prerequisite BSC 2010CH with a minimum grade of C) ) and (Pre- or Co-requisite BSC 2420 with a minimum grade of C and Pre- or Co-requisite PCB 2061C with a minimum grade of C)
Students will gain hands on experience in performing bioinformatics analysis using both nucleic acids and protein sequences. Use of open source software and publicly available databases such as NCBI will be demonstrated and conceptual understanding of associated algorithms and statistics will be applied to resulting data analysis. Specific topics to be covered include file formatting and management; retrieval, submission, and alignment of sequences using the most current tools; gene expression; phylogenetics; and primary literature searches. This is not a programming course. This course is designed to be taught in a blended or on-line modality.

BSC 2461 Introduction to Biotechnology Model Systems (3.00 Credits)
(Prerequisite BSC 2010 with a minimum grade of C and Prerequisite BSC 2010L with a minimum grade of C) or Prerequisite BSC 2010CH with a minimum grade of C
This course introduces the concept of biological model systems in regards to their application to current methods in biotechnology. This course will examine several model organisms with particular emphasis on their limitations and strengths as research systems. This course will also examine strategies of human disease modeling. The discussions of human disease models will include emphasize both the power and limitations of using simple organisms to analyze human disease and an introduction to human physiology. Readings from the primary literature will highlight the historical and current importance of model organisms to current biotechnology applications.

BSC 2847 Scientific Communication for Biotechnology (2.00 Credits)
Prerequisite ENC 1101or equivalent
This course is designed to teach AS Biotechnology students the different forms of scientific communication including, but not limited to, technical writing, research publication, grant proposal, poster presentation, oral communication, compiling and analyzing data, generating figures and tables, incorporating basic statistical analyses in scientific writing, and reading/interpreting scientific literature. Assessments will emphasize practice vs. theory.

BSC 2910 Directed Independent Research (1.0-3.00 Credits)
Approval of Academic Chair and Dean of Natural Sciences.
Students (individually or in a group) design, conduct, analyze and present biological research that is proposed by the student. A full-time professor will provide supervision and guidance. The course is intended to help students acquire skills in applying research principles and obtain practice in data collection and reporting. The research project is recommended by a full-time faculty member to the Academic Chair. Upon approval by the Academic Chair, the proposal is forwarded to the Dean, Natural Sciences for approval. (Note: This course may be taken up to 6 times for a total of 6 credit hours.)

BSC 2931 Biotechnology Capstone (1.00 Credits)
Prerequisite Completion of core courses in BIOT-AS program. and Permission of the Program
This course integrates principles, theories, and methods learned in prior courses in biotechnology. The course is designed to promote exposure to real-world experience through completion of group project(s) having a professional focus. Students in this course will prepare for an internship program and complete all necessary Proficiency Badges as required by their faculty advisor. This course will also present opportunities for discussion with faculty and students regarding current biotechnology research and bio-ethical concerns.

BSC 2940 Biology Internship (1.0-3.00 Credits)
Permission of the Program

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to his/her program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations. To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

BSC 3017 Theory And Practice In The Biological Sciences (2.00 Credits)
Prerequisite BSC 2011 with a minimum grade of C and Prerequisite BSC 2011L with a minimum grade of C
This course is designed to provide a rigorous look at the process of biologically relevant scientific inquiry. Students will investigate formulation of scientific hypotheses, experimental design, collection of data, and dissemination of results. In-depth understanding and use of scientific literature will be developed and applied to both written and verbal communication exercises. This course will include challenges faced by scientists including scientific bias, dissemination to general public and incorporation of scientific discoveries into policy. (Note: It is recommended that this course be taken the first semester within the BS Biology program.)

BSC 3052 Conservation Biology (3.00 Credits)
Prerequisite PCB 3043 with a minimum grade of C and Prerequisite PCB 3043L with a minimum grade of C
This course is designed to teach the conceptual foundations of conservation biology, including the value of biodiversity and trends in global biodiversity. We will also explore the threats and challenges to conserving earth's biodiversity. One of the aims is to correlate concepts from ecology and evolutionary biology to the field of conservation biology. This course will explore the wide variety of approaches used in solving problems in conservation biology and the interrelationships between conservation, human societies and public policy. (Note: STA 2023 is strongly recommended.)

BSC 3096C Human Biology (4.00 Credits)
(Prerequisite BSC 2010 with a minimum grade of C and (Prerequisite BSC 2010L with a minimum grade of C or Prerequisite BSC 2010CH with a minimum grade of C) ) and (Prerequisite BSC 2011 with a minimum grade of C and Prerequisite BSC 2011L with a minimum grade of C)
This course is a study of the main themes of biology from the perspective of the human organism's structure, function, health and wellness, and interactions with the social and physical environment. Students will explore the chemistry of life, cell structure and function, organization and regulation of body systems, patterns of chromosome inheritance, DNA biology and technology, human evolution, ecology and nature of ecosystems, and human interactions with the biosphere. An integrated laboratory component will stress the importance of evidence, observations, experimentation, logic, and argument, and provide students with the knowledge and skills necessary for conducting demonstrations and laboratory investigations in the middle school setting. This course addresses specific Florida Department of Education science standards as well as the pedagogy pertinent to middle grades general science and required for teacher certification.

BSC 3312C Marine Biology with Lab (4.00 Credits)
Prerequisite BSC 2011 with a minimum grade of C and Prerequisite BSC 2011L with a minimum grade of C
The major emphasis of this course focuses on the evolution, biodiversity and classification of organisms in the marine environment, including characteristics and systematics of each taxonomic group. Discussion of major habitats in the marine environment will include physical characteristics of the environment and the unique morphological, physiological, ecological and behavioral adaptations of organisms to those habitats. This course is a combined lecture and lab class.

BSC 3453C Research Methods in Biology (3.00 Credits)
(Prerequisite PCB 3063 with a minimum grade of C and Prerequisite PCB 3063L with a minimum grade of C) and (Prerequisite PCB 3043 with a minimum grade of C and Prerequisite PCB 3043L with a minimum grade of C) and (Prerequisite MCB 3020 with a minimum grade of C and Prerequisite MCB 3020L with a minimum grade of C)

Research Methods in Biology applies field and laboratory techniques used to study biological systems. The course is designed to aid students who have taken many laboratory core courses and desire to pursue research. Both organismal and molecular techniques will be emphasized. Students will become competent in the planning, execution, and application of core techniques from both organismal and molecular biology. This includes reviewing the literature, data collection and analysis, and presentation of findings.

BSC 3931 Special Topics in Biology (1.0-3.00 Credits)
Permission of the Program
Prerequisites may vary according to topic. This course is an open format course designed to address the needs and interests of the students as well as provide an opportunity to focus on current biological science topics. Topics may vary from semester to semester but will be limited to a lecture or seminar series format. (Note: This course may be repeated for up to 9 credits towards major requirements. Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

BSC 3931L Special Topics in Biology Lab (1.0-2.00 Credits)
Permission of the Program
Prerequisites may vary according to topic. This course is an open format lab course designed to address the needs and interests of the students as well as provide an opportunity to focus on current biological science techniques. Topics may vary from semester to semester but will be limited to a laboratory or field study format. (Note: This course may be taken for a total of 4 credits towards major requirements. Prerequisites may vary according to topic. Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

BSC 3932 Scientific Communication (2.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C and ((Prerequisite BSC 2010 with a minimum grade of C and (Prerequisite BSC 2010L with a minimum grade of C or Prerequisite BSC 2010CH with a minimum grade of C) ) or (Prerequisite BSC 2011 with a minimum grade of C and Prerequisite BSC 2011L with a minimum grade of C)) This course is designed to teach biology students the different forms of scientific communication including, but not limited to, technical writing, publication, grant proposal, oral communication and reading scientific literature. Assessments will emphasize practice vs. theory.

BSC 4422C Methods and Applications in Biotechnology (4.00 Credits)
Prerequisite PCB 3063 with a minimum grade of C and Prerequisite PCB 3063L with a minimum grade of C MCB 3020C or PCB 3023C are recommended. This course focuses on the techniques and applications of biotechnology. Biotechnology refers to utilization and manipulation of biological systems with the intent to solve global and societal problems. Emphasis will be placed on understanding the role of the biotechnology industry and application of concepts and techniques central to biotech laboratory research. The major areas of biotechnology that will be covered are as follows: 1) Discovery, development and use of recombinant DNA technology. 2) Industry and government regulations on biotech as well as ethical issues surrounding the field. 3) Major branches of the biotechnology industry including forensics, bioinformatics, pharmaceutical/medical, agricultural, environmental and sustainable energy biotechnology. These topics will be covered in context of a clear knowledge of cellular systems, genetics and ecology as well as with rigorous application of the scientific method. This includes careful analysis of the costs and benefits of modern technology on the economy, society and the environment. (Note: This course is a combined lecture and lab class.)

BSC 4905C Undergraduate Research in Biology (1.0-3.00 Credits)
Prerequisite BSC 3017 with a minimum grade of C and Permission of the Program
This course is an individualized independent study whereby the student participates in ongoing biological research or designs, conducts, analyzes and presents biological research that is proposed by the student. The professor will provide advanced learning resources and guidance. The student will also meet regularly with the professor who will coordinate the research. The number of credits is variable and will be determined in the following manner: 1 credits requires 30 contact hours of participating in ongoing research mentored by faculty sponsor, 2 credits requires 60 contact hours and requires student to design and conduct research on a project designed by the student and approved by the faculty sponsor, 3 credit requires 90 contact hours and requires the student to conduct, analyze and present research proposed by the student with their faculty advisor and a department approved faculty committee. This course may be repeated three times for up to 6 credits total to be applied to the Biology major. (Note: Students and faculty mentors will be required to complete an application package for the type of credit requested which will be submitted and approved by the department prior to enrollment).

BSC 4931 Senior Seminar in Biology (1.00 Credits)
Permission of the Program
This course is designed to provide transition for biology students as they complete their Bachelor degrees and plan to enter the workforce and/or graduate or professional schools. Students in this course will present a compilation of research projects developed throughout their program of study. This course will also present opportunities for discussion with biology faculty and students regarding current biological research and bio-ethical concerns.

BSC 4940 Internship in Biological Sciences (1.0-3.00 Credits)
Permission of the Program and Prerequisite BSC 3017 with a minimum grade of C

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to his/her program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations. (Note: This course may be taken up to 6 times for a total of 6 credits.) To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

## BUL-Business Law

BUL 2131 Legal Environment of Business (3.00 Credits)
No Requisites Required

This course introduces a broad range of legal topics and investigates how the law relates to the American business community. Students will have the opportunity to learn terminology and concepts by applying them to real world situations. The topics covered include the structure of the American legal system, alternate dispute resolution, constitutional law, administrative law, criminal and civil liability, consumer protection, creditor's rights and bankruptcy, employment regulations, securities and antitrust regulations, intellectual property law, contracts, business organizations, environmental and property laws, ethics, and the legal environment of international trade.

BUL 2241 Business Law I (3.00 Credits)
No Requisites Required
This course introduces students to the legal building blocks for critical business decision making. Students will not only learn the basics of the legal system but will also learn how contracts are created and enforced. Students will delve into constitutional law, principal agent relationships, tort law, government regulation and sustainability issues. Students will obtain the tools for choosing the correct business entity.

BUL 2242 Business Law II (3.00 Credits)
Prerequisite BUL 2241 with a minimum grade of C or Prerequisite BUL 2131 with a minimum grade of C
This course is the next step for any student planning a business or legal career. Business Law II builds on the knowledge students obtained in Business Law I (BUL 2141) and Legal Environment of Business (BUL 2131), providing students with even more tools for critical business decision making. Students will not only dive deeper into the principles of business organizations, but will also learn the importance and value of negotiable instruments, commercial paper and secured transactions. The student will examine principles of insurance law, and employment and labor law as well as wills, estates and trusts. 47 contact hours.

BUL 3320 Law and Business (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Construction Technology (Bachelor of Applied Science) (BCNST-BAS)
This course examines the formulation, interpretation, and application of law to business. Covered are the major areas of legal regulation to which businesses are subject, including tort liability, contract law, Uniform Commercial Code, partnership and corporate law, employment and labor law, intellectual property law, environmental regulation and sustainability, and financial regulation. Emphasis is placed on active, experiential application of legal reasoning and analysis and on the global and comparative dimensions of legal and ethical issues. (Note: This course replaces BUL 3310 and 3130). Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

BUL 3322 Legal Issues in International Business (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS)
This course gives the international business student an overview of the legal concepts affecting individuals and/or organizations that are involved in international business. The student will be exposed to a broad survey of legal issues multi-national businesses confront in the international market place, including treaty and convention benefits and limitations, differing legal regimes, international dispute resolution processes, principles of jurisdiction, international contract interpretation and implementation, monetary policies and laws as they relate to commerce, global information systems and intellectual property regulations, and international social and ethical issues affecting businesses and their operations.

BUL 3564 Legal Aspects of Managing Technology (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course is designed to give the computer and information technology student a foundation for analyzing and addressing evolving legal issues involving technology, E-commerce and other online environments. Topics include jurisdiction, intellectual property, online contracting, security, privacy, importing and exporting technology, and civil and criminal liability.

BUL 3583 Legal Aspects of Sustainability (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS)
This course is intended to provide an overview of concepts and laws within the area of sustainability and environmental law. Topics covered include the history and foundations of sustainability and environmental law and the main laws and regulations surrounding sustainability and the protection of our environment. While learning about the international and national impact of the Kyoto Protocol, environmental laws and regulations, emerging sustainability laws and regulations, the affect of existing laws on the sustainability industry, and SEC industry regulations, the student will understand the relation of law to informed sustainable business decision making and practices.

CAI - Computing: Artificial Intelligence

CAI 1000 Introduction to Artificial Intelligence (3.00 Credits)
No Requisites Required

This course surveys Artificial Intelligence (AI) techniques, theories and applications. Students are exposed to AI project cycles and decision-making. Students will be introduced to various social and ethical concerns surrounding Artificial Intelligence such as ethics and bias.

CAI 2511 Artificial Intelligence Systems (3.00 Credits)
Prerequisite COP 1044 with a minimum grade of C

Students will discover how computers process and analyze large amounts of natural language and image data. From text classification and sentiment analysis to machine translation and language generation, learners gain insights into the algorithms and models that power applications like chatbots, virtual assistants, and language translators. Image processing, feature extraction and object recognition principals models and algorithms will be used to detect and classify images.

## CAP-Computer Applications (For Computer Scientists)

CAP 2134 Database Security (3.00 Credits)
Prerequisite CTS 1120 with a minimum grade of C
This course is designed to provide the student with an understanding of database security concepts and practices. The objective of the course is to provide hands-on instruction in various database tasks that relate to securing the confidentiality, integrity and availability of information that is stored in a database. The student will be able to perform administrative tasks in different database management systems, as well as manage database user profiles, privileges, and roles. Different database application security models will be explored, as will the security advantages of utilizing virtual private databases. Finally, the process of database auditing will be explored, including auditing methods using various database management systems.

CAP 2762 Introduction to Data Mining (3.00 Credits)
Prerequisite CTS 2450 with a minimum grade of C
This course prepares students for the application of selected data mining methods, which are used for the retrieval and extraction of relevant and potentially useful information or patterns, stored in large databases, data warehouses, and other sources of information.

CAP 2940 Data Science Internship (3.00 Credits)
Permission of the Program

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to his/her program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations. (Note: The student must fulfill the requirement of 180 on-the-job hours in addition to written assignments.) To view the specific requirements and process to enroll in this course, please see your program's Internship Course Checklist.

CAP 4770 Principles of Data Mining (3.00 Credits)
Prerequisite ISM 4545 with a minimum grade of C
This course spans all major data mining techniques including classification, clustering, and pattern mining (association rules). Topics covered include: predictive modeling, association analysis, clustering, anomaly detection and visualization.

## CCJ-Criminology and Criminal Justice

CCJ 1020 Introduction to Criminal Justice (3.00 Credits)
No Requisites Required
This course is an introduction to the philosophical and historical background of the United States Criminal Justice System. Discussed are the organization, operation and processes of the justice system and its components including police, courts and corrections. Students will identify and discuss contemporary challenges and opportunities in the law enforcement and correctional fields.

CCJ 1512 Gangs and Terrorism (3.00 Credits)
No Requisites Required
This course introduces the student to the interrelationship of gangs, drug trafficking, conspiracy, and terrorism. The course is designed to provide the student with knowledge of legal elements of a criminal conspiracy to include terrorism operations, drug interdiction, and gang organizations.

CCJ 1629 Introduction to Murder (3.00 Credits)
No Requisites Required

This course examines the purpose, structure and operational details of the American criminal justice system through the lens of the most horrifying of all crimes-murder. Students will be exposed to the study of different types of homicide, theories of homicide and homicide law as well as details about how homicide cases are worked on by detectives and how murder cases are dealt with in the courts. The structure of law enforcement agencies and the court system, methodologies of evidence collection and its use in the process of criminal prosecution are detailed. Students take away a greater understanding of the use of law as a social tool and the courts as a solution to societal problems.

CCJ 2358 Capstone: Criminal Justice Report Writing (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C and Prerequisite Permission of the Program

This course prepares the student through instruction and practice to compose written reports common to Criminal Justice, Crime Scene, Digital Forensics, Fire Science, Homeland Security, and Emergency Management communities. Note-taking and report-writing frameworks for these fields will be reviewed. Students will analyze a variety of criminal justice and emergency scenarios presented and produce reports on these scenarios in the required report format and presentation. Students will demonstrate the use of appropriate spelling, grammar, punctuation, and word choices in reports. Basic computer skills for communication and research in the applicable programs will be covered as well. This capstone course will include the end of program assessment, and should be taken towards the end of the program.

CCJ 2509 Introduction to Gangs and Crime (3.00 Credits)
No Requisites Required
This course provides students with an overview of street gangs, the social factors, and the general classifications necessary for the law enforcement, corrections, and public safety professional. This course explores the history, membership, activity, current trends, and influence of street gangs. Students will be challenged to define community-based solutions, and strategies to combat the criminal activity associated with street gangs.

CCJ 2720 Intro to Research Methods in Criminology (3.00 Credits)
Prerequisite CCJ 1020
This introductory course will examine research strategies, data collection, and data analysis in the investigation of questions which arise in criminology and criminal justice. Particular focus will be placed on understanding the role, theory, and functions of the research process for criminal justice professionals. (Note: This course changed from CCJ 2704 to CCJ 2720.)

CCJ 2802 Overview of Mental Health in Criminal Justice (3.00 Credits)
No Requisites Required
This introductory survey course provides law enforcement and first responders with a foundational overview of mental health issues encountered in the criminal justice system. With no prerequisites, the course emphasizes awareness and recognition of common mental health challenges affecting both the public and first responders. Topics include behavioral patterns, substance use, trauma exposure, and occupational stress, with attention to their impact on officer wellness, professional effectiveness, and public interaction.

CCJ 3075 Introduction to Cybercrime (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This course presents an introduction to computer crime through an examination of the acts and theories of cybercrime, cyberterrorism, and information warfare. It also analyzes the individuals who commit cybercrimes, as well as the specific laws, investigative techniques, and criminological theories applicable to computer crime. Topics include the various types of crimes and terrorist acts committed using computer technology, theories addressing hackers and other digital criminals, and the investigative, research, and legal strategies targeting these acts. Finally, the course examines the unique technical issues that arise during investigations of cybercrime.

## CEN-Computer Engineering

CEN 2940 Cloud Computing Internship (3.00 Credits)
Permission of the Program

The purpose of this course is to allow students a "real world" experience with major-related, supervised, evaluated practical work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. The student must fulfill the requirement of 180 on-the-job hours in addition to written assignments. Internships are to be unique to each discipline. To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

CEN 3088 Software Security (3.00 Credits)
Prerequisite ISM 4323 with a minimum grade of C
This course covers the foundations of software security, discussing threats, vulnerabilities and attacks that exploit them. Prevention and mitigation technologies will be covered. From threat modeling, to building security in design, to penetration technologies, and others. Emphasis will be given on addressing security at respective stages of the software development cycle, including security assessment.

CEN 4031 Advanced Program Development Frameworks (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) and
Prerequisite COP 3035 with a minimum grade of C
This course will provide the student with the skills to apply the Software Development Life Cycle (SDLC) to developing a business programming application. The student will implement advanced programming techniques using appropriate algorithms, programming concepts and tools. The course also provides the student with the necessary computing theories to produce software applications from design documents.

CEN 4078 Software Assurance and Security (3.00 Credits)
Prerequisite CEN 3088 with a minimum grade of C
This course focuses on the issues and challenges that software developers must address in order to develop and deploy secure software systems. It explains how common software security flaws and vulnerabilities can be minimized by using secure coding techniques, tools, and methods. The course also covers software security testing and auditing to ensure that code is resistant to attack.

CEN 4722 Human Computer Interfaces (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) and
Prerequisite ISM 3232 with a minimum grade of C
This course will provide the student the necessary elements in understanding and integrating Human Computer Interaction (HCI) into the area of information technology. The student will learn user-centered methodologies in the design, development, evaluation, and employment of application and system software.

## CET-Computer Engineering Technology

CET 1114C Digital Fundamentals with Lab (4.00 Credits)
Prerequisite EET 1084C with a minimum grade of C
This course will cover number systems, codes, logic gates, Boolean algebra, logic simplification and combinational logic. The areas of coverage will also include the study of the theory, concepts, and circuits of digital electronics including decoders, encoders, multiplexers, flip flops, counters, and registers used in the applications of combinational and sequential logic. The laboratory exercises cover the measurement and analysis of digital circuits and devices.

CET 1171C Computer Repair Essentials (3.00 Credits)
No Requisites Required

This course is designed to teach the student basic technical skills needed to understand the function and operation of major elements of Personal Computer (PC) systems, and how to localize and correct common hardware problems. Students will acquire hands-on experience with stand-alone PC systems as well as those in virtualized and cloud-based environments. The course will focus on broad concepts and diagnostic tools which allow the student to determine the condition of a PC system and how to best correct a fault. Additional coverage is included on mobile devices and configuring peripheral devices. Various software tools will be used to diagnose PC problems. This course aligns with the objectives of the CompTIA A+ Certification Core 1 exam. (Note: Credit is only given for CET 1171C or CJE 1661).

CET 1172C Computer Support Technician (3.00 Credits)
Prerequisite CET 1171C with a minimum grade of C
This course is designed to teach the student basic technical skills needed to understand the function and operation of major elements of personal computer operating system software, and how to localize and correct common software problems. Using current versions, the student will install, maintain, optimize, and troubleshoot operating system software, configure and maintain network settings, configure network resources, and configure and maintain personal computer security. The student will formulate disaster recovery procedures in the event of system failure and implement them as instructed. The student will also install and troubleshoot computer peripherals. This course prepares students for the software portion of the CompTIA A+ Certification exams. (Note: Credit is only given for CET 1172C or CJE 1666).

CET 1175C Medical Software and Troubleshooting (2.00 Credits)
No Requisites Required
This course teaches computer applications for technical support staff in a health care setting. Students become familiar with databases, spreadsheets, technical drawings, and project organization as they apply to various technical projects relative to the clinical engineering department. Students will also explore specific databases used in the documentation of medical device technology management. Includes needs analysis, process documentation troubleshooting computer problems, customer service fundamentals and training end users.

CET 1600 Introduction to Networks (3.00 Credits)
No Requisites Required
This is the first of three courses designed to provide students with classroom and laboratory experience to achieve professional certification as a Cisco Certified Network Associate (CCNA). This course introduces the architecture, structure, media, components, principles of Internet Protocol (IP) addressing, and fundamentals of Ethernet. By the end of the course, students will be able to build simple local area networks (LANs), perform basic router and switch configuration, and implement basic IP addressing.

CET 1610 Switching, Routing, and Wireless Essentials (3.00 Credits)
Prerequisite CET 1600 with a minimum grade of C or Prerequisite CCNA certification
This is the second of three courses designed to provide students with classroom and laboratory experience to achieve professional certification as a Cisco Certified Network Associate (CCNA). Students will apply the fundamentals of switching and routing. Instruction includes virtual local area networks (VLANs), VLAN trunking, inter-VLAN routing, spanning tree protocol (STP) and Etherchannel, first hop redundancy protocols (FHRPs), dynamic host configuration protocol (DHCP), wireless LAN (WLAN) concepts, and static routing.

CET 2615 Enterprise Networking, Security, and Automation (3.00 Credits)
Prerequisite CET 1610 with a minimum grade of C or CCNA certification
This is the last of three courses designed to provide students with classroom and laboratory experience to achieve professional certification as a Cisco Certified Network Associate (CCNA). The focus of this course is on the operations of routers and switches in larger, more complex networks. Instruction includes dynamic routing protocols, access list (ACL) design and implementation, network address translation (NAT), virtual private networks (VPNs), network operations monitoring, and network automation.

CET 2620 Enterprise Core Technologies (3.00 Credits)
Prerequisite CET 2615 with a minimum grade of C or CCNA certification

This course is designed to provide students with classroom and laboratory experience to sit for the Cisco Enterprise Network Core Technologies (ENCOR) exam. Instruction includes, but is not limited to, multi-layer switch operations, implementation and troubleshooting of advanced routing protocols, such as Enhanced Interior Gateway Routing Protocol (EIGRP), Open Shortest Path First (OSPF), route redistribution, route maps, Border Gateway Protocol (BGP), wireless infrastructure, network access control, and infrastructure security.

CET 2670 Enterprise Network Core Technologies (3.00 Credits)
Prerequisite CET 2615 or Prerequisite CCNA certification
This is the first of two courses designed to provide students with classroom and laboratory experience to achieve professional certification as a Cisco Certified Network Professional (CCNP). The focus of this course is on the operations of routers and switches in larger, more complex networks. Instruction includes Multiple Spanning Tree Protocol (MSTP), virtual local area network (VLAN) trunks and EtherChannel, advanced Enhanced Interior Gateway Routing Protocol (EIGRP), multi-area Open Shortest Path First (OSPF), Border Gateway Protocol (BGP), multicast, and first hop redundancy protocols (FHRPs).

CET 2682 Fundamentals of Voice Over IP (VoIP) (3.00 Credits)
Prerequisite CCNA certification or Prerequisite CET 2620
Instruction includes, but is not limited to, Voice over Internet Protocol (VoIP) theory, Voice Gateway configuration in a IP Telephony (IPT) solution, IP Phone configuration, design of VoIP networks and troubleshooting IPT networks. Students will design and configure various VoIP networks using case studies and laboratory equipment.

CET 2685 Implementing Cisco Network Security (3.00 Credits)
Prerequisite CET 2615 with a minimum grade of C or Prerequisite CCNA certification
This course is designed to provide students with classroom and laboratory experience to achieve professional certification as a Cisco Certified Specialist. Instruction includes identifying hacking methods and network security threats, device hardening, event logging, authentication, authorization, and accounting (AAA), Intrusion Prevention Systems (IPS), cryptography, Virtual Private Networks (VPNs), Internet Protocol Security (IPSec), and integration of hardware firewalls.

CET 2691 Laws & Legal Aspects of IT Security (3.00 Credits)
No Requisites Required
This course provides students with an overview of legal issues common to computer security. These issues fall within the parameters of privacy, intellectual property, computer crime investigation for network breaches, civil liability, and the ethical considerations of the Information Technology (IT) professional focused on network security. The course will seek to expand on all matters of law that may be included on any network security certification exam, but also covers the economic impact that security breaches have on industry sectors and the business response required. Coursework will include reviewing fact patterns applied to legal and ethical authorities.

CET 2856 Implementing CISCO IP Switched Networks (SWITCH) (3.00 Credits)
Prerequisite CET 2620 or Prerequisite CCNA certification
This course is designed to provide students with advanced classroom experience in Local Area Network (LAN) and Wide Area Network (WAN) switching. Instruction includes, but is not limited to, Virtual Local Area Network configuration (VLAN), VLAN Trunking Protocol (VTP), VLAN Pruning, Spanning Tree Protocol (STP), routing between VLANs, multi-layer switch operations, Hot Standby Routing Protocol (HSRP), restricting network access with switching security techniques, installing Access Control Lists (ACLs) on switches, wireless technology applications with switches, configuring Quality of Service (QoS) on switches, and Voice Over Internet Protocol (VoIP) integration. Students will install, configure, and operate complex-routed LAN and WAN switching networks.

## CGS-Computer General Studies

CGS 1070 Basic Computer and Information Literacy (1.00 Credits)
No Requisites Required
This course is designed to develop computer competencies and literacy. It introduces general computer operations using current computing technologies and data storage techniques. An introduction to a word processing and a spreadsheet program is included. Further, the course will introduce students to the core concepts of computer literacy and essential techniques for locating, analyzing, organizing and presenting information. The course also provides strategies for using a variety of electronic resources while emphasizing internet ethics and security.

CGS 1100 Computer Applications (3.00 Credits)
No Requisites Required
This course is an introduction to fundamental concepts utilizing a computer as the tool. Contemporary projects are produced through the use of integrated applications software. Selected topics include the Internet, operating systems, and creating and evaluating documents, worksheets, and presentations. Guidelines for selecting computer hardware and software are addressed. Satisfactory completion of this course meets the Computer and Information Literacy graduation requirement.

CGS 1200C Web Assistive Technologies (3.00 Credits)
Prerequisite CGS 1831 with a minimum grade of C
This course is designed to introduce an experienced computer user to the understanding of assistive technologies and technology applications that improve usability of web based content by following industry guideline standards.

CGS 1301 Introduction to Information Systems (3.00 Credits)
Prerequisite CGS 1100 with a minimum grade of C
This course is designed to provide students with a framework to understand the role of Information Technology (IT) in business enterprises. The student will be introduced to IT and IT terminology and will be required to understand the business implications thereof. Real world examples including case studies, practical exercises, business models and research assignments will help the student comprehend the use of IT in the formulation of business strategies.

CGS 1309 Computer and Information Technology Concepts (3.00 Credits)
No Requisites Required
A survey problem solving course which deals with subjects related to varied computer and information technology topics. A broad range of conceptual and practical subjects in IT are covered. An overview of the IT field, detailed information about some specialties to include Computer Support, Cybersecurity, Networking, Programming, and Web Development. This course satisfies SPC's computer competency requirement (effective Fall 2017).

CGS 1515 Spreadsheet Techniques and Programming (3.00 Credits)
Prerequisite COP 1000 with a minimum grade of C or Prerequisite CGS 1100 with a minimum grade of C
Program strongly recommends completion of General Education Math requirement prior to taking CGS 1515.
This course will provide students with hands-on experience and skills with a spreadsheet. Students will learn the various functions and commands of the spreadsheet as well as how to plan, create, and program spreadsheets for common business applications. It is appropriate for accounting and business majors, programmers and spreadsheet application developers.

CGS 1545 Database Techniques (3.00 Credits)
Prerequisite COP 1000 with a minimum grade of C or Prerequisite CGS 1100 with a minimum grade of C
This course will provide students with hands-on experience in creating and maintaining a relational database application. Students will learn the various functions and commands of the database as well as how to plan, normalize, create, use, and program fully relational databases for common business applications. Students will learn relational database theory and design, formal naming conventions, and database programming techniques.

CGS 1560 Computer Operating Systems (3.00 Credits)
Prerequisite COP 1000 with a minimum grade of C or Prerequisite CGS 1100 with a minimum grade of C
This course is designed to make the student proficient in microcomputer operating systems. Major topics include disk and file management, system configurations, menu driven processing and graphical user interfaces.

CGS 1831 Web Foundations/Essentials (3.00 Credits)
Prerequisite CGS 1070 with a minimum grade of C or Prerequisite CGS 1100 with a minimum grade of C or Prerequisite COP 1000 with a minimum grade of C or Prerequisite CGS 1309 with a minimum grade of C or Computer Competency met.
This course is designed to introduce an experienced computer user to the tools necessary to be an effective designer and/or developer for the Web, and is the foundation class for the Web Development Program. The student will gain the skills necessary to develop and maintain complex Web sites, including a fundamental understanding of the protocols and vocabulary of web production in addition to client-server dynamics. Topics covered will include HTML, Cascading Style Sheets (CSS) and forms.

CGS 1874 Interactive Web Media Tools (3.00 Credits)
Prerequisite CGS 1831 with a minimum grade of C
This is a survey course designed to introduce the concepts of web based multimedia . Students will be exposed to different areas of multimedia techniques used in web environments. Students will have the opportunity to learn how to produce multimedia objects, manipulate the environment for optimization and create web interfaces using a content management system. They will learn to combine media components into web environments.

CGS 2651 Social Media and Web Technologies (3.00 Credits)
Prerequisite CGS 1100 with a minimum grade of C or Prerequisite COP 1000 with a minimum grade of C or Prerequisite CGS 1309 with a minimum grade of C or Prerequisite CGS 1070 with a minimum grade of C
This course is designed to teach students how to interact using shared collaboratively communication tools and resources. Students will learn how to identify and apply Web based social collaboration technologies for business and personal use. Major topics covered include; identifying the differences between Web 1.0 2.0, 3.0, reviewing collaboration software (DropBox, Google Docs, Sharepoint), communicating using social media sites (Twitter, Facebook, LinkedIn, FourSquare, Tumblr), organizing and applying web syndication to online data.

CGS 2811 Incident Response & Disaster Recovery (3.00 Credits)
Prerequisite CTS 1120 with a minimum grade of C
This course is designed to provide the student with an understanding of the concepts and practices of contingency operations, including the administration of the planning process for incident response, disaster recovery, and business continuity planning. Topics include organizational readiness planning, the phases of incident response, different contingency strategies, tasks related to the preparation, implementation, operations, and maintenance of disaster recovery, and business continuity.

CGS 2823 Advanced Web Site Development (3.00 Credits)
Prerequisite CGS 1831 with a minimum grade of C
This course builds upon skills learned in CGS 1831. The student will learn how to plan, develop, and implement a responsive website. Students will utilize tools for evaluating, tracking, and maintaining a website.

CGS 2940 Web Development Internship (3.00 Credits)
Permission of the Program

The purpose of this course is to allow students a “real world” experience with major-related, supervised, evaluated practical work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. (Note: The student must fulfill the requirement of 180 on-the-job hours in addition to written assignments). To view the specific requirements and process to enroll in this course, please see your program’s internship course checklist.

## CHM-Chemistry

CHM 1025 Introductory Chemistry (3.00 Credits)
Permission of the Program or ((Prerequisite ENC 0025 with a minimum grade of C and Prerequisite REA 0017 with a minimum grade of C) and (Prerequisite MAT 1033 with a minimum grade of C or Pre- or Co-requisite MAC 1105 with a minimum grade of C or Pre- or Co-requisite Any higher-level math course with a MAC prefix (excluding liberal arts and statistic courses) with a minimum grade of C) and Pre- or Co-requisite CHM 1025L with a minimum grade of C) or (Prerequisite EAP 1695 with a minimum grade of C and (Prerequisite MAT 1033 with a minimum grade of C or Pre- or Co-requisite MAC 1105 with a minimum grade of C or Pre- or Co-requisite Any higher-level math course with a MAC prefix (excluding liberal arts and statistic courses) with a minimum grade of C) and Pre- or Co-requisite CHM 1025L with a minimum grade of C)
This introductory course is a presentation of modern chemistry concepts, periodicity and atomic structure, states of matter, chemical formulas and nomenclature, chemical reactions, chemical calculations, and solutions. (Note: This course will prepare students for General Chemistry I but is not designed for credit toward a major in chemistry and may not be taken for credit subsequent to receiving a grade of "C" or better in CHM 2045, CHM 2045L or CHM 2046, CHM 2046L.)

CHM 1025L Introductory Chemistry Lab (1.00 Credits)
Pre- or Co-requisite CHM 1025 with a minimum grade of C
This introductory chemistry lab course includes experiments involving mass, volume, the nature of substances, density, solubility, graphing, dimensional analysis, empirical formulas, titration, reactions, gas laws, and solutions.

CHM 2045 General Chemistry I (3.00 Credits)
((Prerequisite CHM 1025 with a minimum grade of C and Prerequisite CHM 1025L with a minimum grade of C) or Prerequisite Passing score on Chemistry Placement Exam) and (Prerequisite MAC 1105 with a minimum grade of C or Pre- or Co-requisite Any higher level math course with a MAC prefix (excluding liberal arts and statistic courses)) and Pre- or Co-requisite CHM 2045L with a minimum grade of C

This course is designed for students pursuing careers in the sciences or who need a more rigorous presentation of chemical concepts than is offered in an introductory course. Students will engage in problem solving and critical thinking while applying chemical concepts. Topics will include the principles of chemistry including atomic theory, electronic and molecular structure, measurement, stoichiometry, bonding, periodicity, thermochemistry, nomenclature, solutions, and the properties of gases. ***State Core Course Description (State Rule 6A-14.0303).*** **This course satisfies the Natural Sciences General Education Core.**

CHM 2045L General Chemistry & Qualitative Analysis Laboratory I (1.00 Credits)
Pre- or Co-requisite CHM 2045 with a minimum grade of C
This course includes laboratory experiments which are quantitative in nature and designed to give practice in acceptable laboratory techniques.

CHM 2046 General Chemistry II (3.00 Credits)
Prerequisite CHM 2045 with a minimum grade of C and Prerequisite CHM 2045L with a minimum grade of C and Pre- or Co-requisite CHM 2046L with a minimum grade of C
This course is a continuation of General Chemistry I and extends the study of chemical principles in solutions, kinetics, gaseous and solution equilibria, acid-base reactions, thermodynamics, oxidation-reduction, electrochemistry, and nuclear chemistry.

CHM 2046L General Chemistry Laboratory II (1.00 Credits)
Pre- or Co-requisite CHM 2046 with a minimum grade of C
This course is a continuation of General Chemistry Laboratory I. It includes some qualitative analysis.

CHM 2210 Organic Chemistry I (3.00 Credits)
Pre- or Co-requisite CHM 2210L with a minimum grade of C and Prerequisite CHM 2046 with a minimum grade of C and Prerequisite CHM 2046L with a minimum grade of C
This is the first course of a two semester course sequence in organic chemistry. In this first semester material covered will include the fundamentals of organic chemistry, organic structure and properties through the understanding of quantum mechanics and orbital theory, nomenclature, structural representation, isomerism, thermodynamics, the chemistry of delocalized electrons, and the reactions and mechanisms associated with the use or synthesis of alkanes, alkenes, alkynes, alkyl halides, alcohols, ethers, epoxides, and sulfur-containing compounds.

CHM 2210L Organic Chemistry Laboratory I (1.00 Credits)
Pre- or Co-requisite CHM 2210 with a minimum grade of C
This laboratory course involves basic techniques for the synthesis, purification and identification of organic compounds. These techniques include filtration, separation, melting point determination, spectroscopy, recrystallization, distillation, evaporation, reflux and assembly and care of glassware.

CHM 2211 Organic Chemistry II (3.00 Credits)
Prerequisite CHM 2210 with a minimum grade of C and Pre- or Co-requisite CHM 2211L with a minimum grade of C
This is the second course in a two-semester sequence of Organic Chemistry. Course material emphasizes the spectroscopy of organic molecules, nomenclature, and the reactions and mechanisms associated with the use or synthesis of carboxylic acids and derivatives thereof, aromatic compounds and substituted derivatives, aldehydes, ketones, amines, alpha-carbon chemistry, and pericyclic reactions.

CHM 2211L Organic Chemistry Laboratory II (1.00 Credits)
Pre- or Co-requisite CHM 2211 with a minimum grade of C
This laboratory course involves synthesis, purification and identification of organic compounds involving special techniques such as infrared spectroscopy or gas chromatography.

## CIS-Computer Science and Information Systems

CIS 1358 Operating System Security (3.00 Credits)
Prerequisite CTS 1120
This course introduces the student to securing personal computer operating systems, specifically the current versions of Windows and Linux. In this course the student will acquire knowledge and skills to perform audit assessments and implement enterprise-wide operating systems security. The objective of the course is to provide hands-on instruction, from the desktops, servers and the network infrastructure and understand how to control the privacy, integrity and authenticity of data. (Note: Credit is only given for CIS 1358 or CJE 1665.)

CIS 2321 Systems Analysis and Design (3.00 Credits)
Prerequisite CGS 1100 with a minimum grade of C or Prerequisite COP 1000 with a minimum grade of C
This course provides the student with ways to understand and apply fundamentals of systems analysis to the development of information systems used in business, government or nonprofit environments. The student will become familiar with a range of techniques for systems analysis. The student will be made aware of the importance of developing good human relations skills and the need to understand and deal with the social and political culture in organizations in the course of system analysis and design.

CIS 2352 Ethical Hacking (3.00 Credits)
Prerequisite CIS 1358 with a minimum grade of C
This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, and learn how to properly document a security test. In addition to exploring the legal and ethical ramifications of penetration testing, students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces. This course is aligned to prepare the student for the EC-Council Certified Ethical Hacker (CEH) industry certification exam. (Note: Credit is only given for CJE 1660 or CIS 2352.)

CIS 2642C Cloud Infrastructure and Services (3.00 Credits)
Prerequisite CTS 1193 with a minimum grade of C

This course will cover the technologies, processes, and mechanisms required to build cloud computing infrastructures. Students will study the potential benefits of cloud-based computing versus traditional computing. The course also provides students with an overview of the various services available on major cloud platforms and an opportunity to implement those services on one or more cloud platforms. This course also helps students master the skills and knowledge needed to achieve AWS Cloud Practitioner certification.

CIS 2940 Computer Information Technology Internship (3.00 Credits)
Permission of the Program

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to his/her program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations. To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

CIS 2950 Computer Science Capstone Experience (3.00 Credits)
Permission of the Program

The Computer Science Capstone Experience is the culminating course for students pursuing a degree in technology. This hands-on, interactive course is designed to provide students with an understanding of industry trends, real-world applications, and career development in the field of technology.

CIS 3083 Cloud Computing Foundations (3.00 Credits)
Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course covers essential cloud computing principles, concepts, and architectures. In this course students will also study cloud computing deployment and service models. Students will learn how to evaluate the business case for cloud computing and will be able to describe the risks associated with cloud computing. The course will also provide students with the opportunity to implement various cloud objects including servers and storage objects.

CIS 3661 Security Architectures (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS)
This course covers a wide range of topics as they relate to security architecture. Topics include the design, development, and integration of security into system architecture solutions. In this course students will examine the different layers of security architecture, analyze security architecture strategies, and apply policies and standards to security architecture.

CIS 4200 Security Penetration Testing (3.00 Credits)
Prerequisite CIS 2352 with a minimum grade of C and (Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) Subplan- CSDR or Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS))
This course covers penetration testing and vulnerability assessment. Topics include compliance-based assessment planning and scoping, information gathering & vulnerability identification, attacks & exploits, penetration testing tools, and reporting and communication. This course contains foundational coverage in preparing for CompTIA's PenTest+. Students will need remediation to ensure success on the exam.

CIS 4219 Human Aspects of Cyber Security (3.00 Credits)
Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS)
This course focuses on examining the key human factors that could influence the cybersecurity posture of an organization. This includes any contributing psychological traits such as impulsiveness and decision-making. This course will also explore the key techniques and frameworks that allow cybersecurity professionals to recognize and mitigate the risks associated with accidental and intentional insider threats.

CIS 4253 Ethics for Information Technology (3.00 Credits)
Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS)
This course provides a comprehensive overview of the current ethical issues in information technology (IT). It examines an array of long-standing and emerging issues facing IT users, ranging from free speech, privacy, intellectual property, security and crime. The course will discuss the ethical responsibilities of IT professionals, and promote the critical examination and responsible use of IT.

CIS 4651 Cloud Deployment and Operations (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) and Prerequisite CIS 3083 with a minimum grade of C

This course covers a flexible collection of software and programmatic delivery practices for cloud infrastructures. Students will learn how software and tools can improve deployment speed, consistency, and reliability by orchestrating cloud services and automated, repeatable cloud deployments. Topics cover but are not limited to Infrastructure as a Code (IaC), Continuous Integration/Continuous Delivery (CI/CD) and Artificial Intelligence/Machine Learning (AI/ML) deployments via cloud services for forecasting, data analytics, computer vision, and Natural Language Processing (NLP).

CIS 4776 Cyber Warfare (3.00 Credits)
Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS)
This class will examine the nature of cyber and information warfare. It will explore the typical threat actors, the cyber and information battlefield and the weapons and strategy employed in this type of warfare. An overview of cyber weaponry will be presented, and various offensive and defensive strategies will be examined via case studies and possible simulations. This course will focus on the cyberwarfare landscape, offensive and defensive cyberwarfare techniques, and the future of cyberwarfare. Students will learn how to identify and analyze threats and vulnerabilities, and to recommend mitigation strategies to reduce the risk associated with cyber warfare.

## CJC-Corrections

CJC 3311 Contemporary Issues & Trends in Corrections (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This course will provide the student with an understanding of the evolution of the U.S. Corrections system, specifically the antecedents of modern corrections, the operation and administration of corrections facilities, and the role of corrections in modern society. Emphasis will be placed on the issues and trends in corrections affecting administration and management.

CJC 3601 Corrections Practice & Policy (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This course will provide the student with an understanding of the principles of modern management theory to the operations and functions that comprise the leadership of progressive custodial and non-custodial correctional practice. Relevant aspects of human resource management will also be considered and applied to the corrections industry.

## CJD-Criminal Justice Development

CJD 0210C Law Enforcement Supplemental Review - Equivalency of Training (0.00 Credits)
Prior Law Enforcement Certification.
This course is designed as a review for previously certified law enforcement officers from other states or Florida whose certification has lapsed. It includes demonstrations of proficiency in firearms, defensive tactics and first aid, vehicle operations as well as a comprehensive review of academic objectives of the law enforcement recruit certification program in preparations for the state certification examination. 50 Clock Hours.

CJD 0213C Corrections Supplemental Review - Equivalency of Training (0.00 Credits)
Previous Corrections Certification
This course is designed as a review for previously certified corrections officers from other states or Florida whose certification has lapsed. It includes demonstrations of proficiency in firearms, defensive tactics and first aid as well as a comprehensive review of academic objectives of the corrections recruit certification program in preparations for the state certification examination. 40 Clock Hours.

## CJE-Criminal Justice

CJE 1202 Crime and Delinquency (3.00 Credits)
No Requisites Required
This course will provide the student with the opportunity to explore crime theories, crime causation, crime in the modern world, and future trends of criminology and delinquency. In addition, the student will examine theory versus reality throughout the course.

CJE 1640 Introduction to Crime Scene Technology (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate scores on the English and Reading placement tests

This course introduces students to concepts and techniques utilized in Crime Scene Investigations.The processes studied include securing, measuring, and documenting the crime scene and items of physical evidence. Students learn the skills necessary to collect, properly package, and document physical evidence. Documentation learned includes the creation of a formal written report based upon observation and examination of the crime scene.

CJE 1643 Advanced Crime Scene Technology (3.00 Credits)
Prerequisite CJE 1640 with a minimum grade of C
This course covers advanced principles, theories and applications in crime scene technology. Specialized collection procedures of weapons, traffic crash evidence, arson, gunshot residue, blood spatter, and recovery of buried bodies and surface skeletons are also included. Data analysis, reporting and plan of action development are emphasized.

CJE 1669 Identity Theft Investigations (3.00 Credits)
No Requisites Required
This course will provide the student with the knowledge of the tools, procedures, resources, and appropriate laws necessary to investigate identity theft crimes.

CJE 1680 Introduction to Computer Related Crime Investigations (3.00 Credits)
No Requisites Required

Cybercrime is one of the fastest-growing crimes in the world, and it's becoming increasingly sophisticated. This course will provide students with the skills and knowledge they need to recognize, investigate and prosecute cybercrime. The students will learn about the different types of cybercrime, how the crimes are actually committed, and how to properly investigate them. The course also explores the investigative software tools and the legal issues involved in prosecuting cybercrime.

CJE 1681 Internet as an Investigative Tool (3.00 Credits)
No Requisites Required
This course will instruct students in how to utilize a computer and advanced Internet search techniques as an investigative tool. Topics will include tracking individuals using email addresses, newsgroups, chat rooms, public record information and network addresses.

CJE 1682 Tracking and Profiling Hackers, Pedophiles and Internet Stalkers (3.00 Credits)
No Requisites Required
This course provides the student with the knowledge to track and profile hackers, pedophiles and Internet stalkers. Software tools and Web sites used by investigators will be a part of this course. An overview of criminal acts committed by hackers, pedophiles and Internet stalkers will also be included in this course.

CJE 1683 Internet Pornography Investigations (3.00 Credits)
No Requisites Required
This course will provide the student with the knowledge, tools and laws related to Internet pornography investigations.

CJE 1684 Internet Fraud Investigations (3.00 Credits)
No Requisites Required
This course will provide the student with the knowledge of the tools, procedures and appropriate laws necessary to investigate Internet fraud crimes.

CJE 1685 Legal Aspects of Computer Related Criminal Investigations (3.00 Credits)
No Requisites Required
This course will provide the student the opportunity to learn the legal aspects of laws and codes that apply to computer related criminal investigations. Students will learn the elements required to prosecute computer related crimes including writing search warrants.

CJE 1686 Forensic Computer Related Crime Investigations (3.00 Credits)
No Requisites Required
This course will introduce the student to the principles and practices required to obtain and preserve evidence in forensics computer related crime investigations. Topics will also include the Internet and investigative software tools.

CJE 1687 Computer Software Piracy and Copyright Infringement (3.00 Credits)
No Requisites Required
This course provides the student with an overview of the legal issues involved in computer software piracy and copyright infringement, the tools and technologies used to commit these offenses, and the investigative techniques that can be utilized to combat these crimes.

CJE 2605 Investigative Trends (3.00 Credits)
No Requisites Required
This course will provide the student with the opportunity to explore in depth, specific crime typologies, national crime trends, and international events as well as view fundamental investigative techniques. In addition, the student will examine the rigorous methods, issues, and trends of criminal investigation.

CJE 2644 Crime Scene Safety (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate scores on the English and Reading placement tests.
This course covers potential health and safety hazards one will encounter at a crime scene. The course will also introduce the proper protective techniques to minimize risk to self and others. Emergency procedures and state and federal regulations are included.

CJE 2645 Introduction to Forensic Science (3.00 Credits)
(Prerequisite ENC 0025 with a minimum grade of C and Prerequisite REA 0017 with a minimum grade of C) or Prerequisite appropriate scores on the English and Reading placement tests.
This course exposes the student to the capabilities and functions of a full-service crime laboratory. Also covered is evidence selection and submission to crime lab in accordance with established standards and legal requirements including chain of custody.

CJE 2671 Latent Fingerprint Development (3.00 Credits)
Prerequisite CJE 2644 with a minimum grade of C and Prerequisite CJE 2676 with a minimum grade of C and Pre- or Co-requisite CJE 1643 with a minimum grade of C and Pre- or Co-requisite CJL 2610 with a minimum grade of C and Pre- or Co-requisite CJE 2645 with a minimum grade of C and Pre- or Co-requisite CJE 2672 with a minimum grade of C
This course emphasizes the techniques involved in detection, enhancement and recovery of latent fingerprints from physical evidence. Chemical and mechanical methods and surfaces will be analyzed and evaluated for proper application in both theory and practice.

CJE 2672 Fingerprint Classification (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate scores on the English and Reading placement tests.
This course teaches the Henry modified system of fingerprint classification and prepares the student for a position as an inked fingerprint examiner.

CJE 2673C Crime Scene Photography (3.00 Credits)
Pre- or Co-requisite CJE 1640 with a minimum grade of C

This course explains and covers crime scene photography skills. Included in the course are camera operation, exposure control, proficiency in relational photos, and flash control for crime scene and evidentiary documentation. The course will also cover unique light sources, the use of filters, specialized equipment, and digital cameras.

CJE 2676 Biological Evidence (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement tests.
This course exposes the student to the forensic value, handling, preservation, testing and documentation of biological evidence. This course also addresses safety issues involved in handling biological evidence.

CJE 2940 Internship (3.0-6.00 Credits)
Admission to Public Safety (Associate in Science) (CJPSS-AS) or Permission of the Program

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to the Criminal Justice, Crime Scene, or Digital Forensics and Computer Crime program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations. Students completing the Law Enforcement Academy Career Certificate program will articulate this course via a state-mandated articulation agreement. (Note: The student must fulfill the requirement of 180 on-the-job hours.)

CJE 3213 Digital Forensics in Public Safety (3.00 Credits)
Pre- or Co-requisite CCJ 3075 with a minimum grade of C and Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This course provides a broad overview of digital forensic investigations. It begins by examining the fundamentals of system forensics, including defining the cyber forensics process, the role of the computer forensics specialist, and the application of forensic analysis skills to various types of investigations. The course also provides the student with an overview of various computer crimes, as well as the forensic methods applicable to each kind of investigation. The course also discusses the tools, techniques, and methods used to perform digital forensic investigations on a variety of data, operating systems, and hardware devices.

CJE 3214 Advanced Topics in Digital Forensics (3.00 Credits)
Pre- or Co-requisite CCJ 3075 with a minimum grade of C and Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This course is designed to be an advanced course in digital forensics that focuses on special investigative topics. These topics include the legal and technical challenges faced by an investigator who is conducting a cloud forensic investigation. The course also discusses how to conduct an analysis of volatile data and system memory areas. The different characteristics of dark web investigations are considered as well. Finally, case studies are provided to show some examples of anti-forensic methods that may hinder an investigation of computer forensics.

CJE 3215 Mobile Device Forensics (3.00 Credits)
Pre- or Co-requisite CCJ 3075 with a minimum grade of C and Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This course is designed to help students better understand the differences between the forensic investigations of mobile devices and investigation on traditional computer devices. The course teaches the proper steps used in a search of a mobile device, including the most probable locations of different types of data artifacts. Topics include the preparing, protecting, and seizing of evidence, with a view towards producing evidence that will be admissible in court. The course also presents an overview of tools that will help the examiner validate the collected evidence, as well as examining the different processes used in iOS investigations versus Android device investigations.

CJE 3263 International Organized Crime (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This course will provide the student with an awareness of the impact of international gangs, organized crime and terrorism on the United States and globally. The student will examine the undermining of nations' financial institutions, homeland security and global networking capabilities of international gangs, organized crime and terrorist groups. The student will analyze the historical and regulatory factors that contributed to creating domestic and international gangs and organized crime in Eastern Europe and Asia, and the impact of organized crime groups, particularly Italian, Asian, Russian, Israeli, Albanian, Colombian, Mexican, African, Canadian and outlaw motorcycle gangs. The course will deal with international issues including money laundering, drug trafficking, human trafficking, contract assassinations, transnational terrorism, arms trafficking, cyberspace fraud and corruption of political and police officials.

CJE 3341 Patrol Issues in Law Enforcement Administration (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)

In this course, students will examine the diverse responsibilities of patrol operations to develop an understanding of the role of the police officer, who is usually the first unit on the scene to address crime and to protect the community. Current issues confronting police officers will be discussed and evaluated as to how these issues affect the relationship between police and the community.

CJE 3361 Management of Specialized Law Enforcement Units (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This course will provide the student an opportunity to explore and understand specialized facets of law enforcement service delivery. The student will focus on agency implementation of public safety, crime reduction, and/or community relation initiatives, evaluating program effectiveness and community impact. This process will enhance the student's ability to research program needs, examine budgetary requirements for implementation, and measure the program's effectiveness from a viability standpoint.

CJE 3611 Criminal Investigations Theory and Practice (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)

This course explores and analyzes investigative facets of law enforcement through the examination of various investigative strategies, techniques, tools, and technology used in the criminal investigation process. Critical thinking skills are utilized to enable the student to evaluate an effective criminal investigation while preserving the constitutional rights of the individual and the community.

## CJK-Criminal Justice Basic Training

CJK 0007 Intro to Law Enforcement (0.00 Credits)
No Requisites Required
This course is the introduction to the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commision New Basic Law Enforcement Recruit Training Program.

CJK 0017 Communications (0.00 Credits)
No Requisites Required
This course is the Communications section of the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission New Basic Law Enforcement Recruit Training Program.

CJK 0020 CMS Law Enforcement Vehicle Operations (0.00 Credits)
No Requisites Required
This course includes the physiological and psychological factors which impact vehicle operations and control; the basic components of defensive driving and emergency vehicle operations, the basic legal considerations involved in the operation of authorized emergency vehicles and in vehicle pursuits; civil and criminal liability which are applicable to law enforcement driving; what to look for during routine maintenance and inspection of a police vehicle; the basic elements of vehicle dynamics; the types of skids and their causes; how to recover from several types of skids; and basic driving skills and techniques.

CJK 0031 CMS First Aid for Criminal Justice Officers (0.00 Credits)
No Requisites Required
This course identifies the role of a law enforcement officer in recognizing and responding appropriately to emergency situations.

CJK 0040 CMS Criminal Justice Firearms (0.00 Credits)
No Requisites Required
This course is available only to students who are accepted into the Basic Law Enforcement Certificate Program.

CJK 0061 Patrol I (0.00 Credits)
No Requisites Required
This course is the Patrol I section of the Florida Department of Law Enforcement, Criminal Justice Justice Standards and Training Commission New Basic Law Enforcement Recruit Training Program.

CJK 0062 Patrol II (0.00 Credits)
No Requisites Required
This course is the Patrol II section of the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission New Basic Law Enforcement Recruit Training Program.

CJK 0071 Criminal Investigations (0.00 Credits)
No Requisites Required
This course is the Criminal Investigations section of the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission New Basic Law Enforcement.

CJK 0076 Crime Scene Investigations (0.00 Credits)
No Requisites Required
This course is the Crime Scene Investigations section of the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission New Basic Law Enforcement Recruit Training Program.

CJK 0082 Traffic Stops (0.00 Credits)
No Requisites Required
Students are responsible for reading and reviewing all course-related material. They are required to attend classroom lectures that include the topics of traffic stops and participate in practical exercises. Two role-play practicum will help students apply proper procedures to specific traffic stop scenarios. There will also be a written exam covering all of the course content. At the end of this course, students should be able to: 1) Safely pull a vehicle over, 2) Identify and articulate the stop/violation, 3) Obtain necessary information from the driver/passenger, 4) Safely complete the stop / Safely effect an arrest, and 5) Accurately complete the required documentation for a traffic stop.

CJK 0083 DUI Traffic Stops (0.00 Credits)
No Requisites Required
Students are responsible for reading and reviewing all course-related material. They are required to attend classroom lectures that include DUI (Driving Under the Influence) traffic stops and participate in practical exercises. Two role-play practicum will help students apply proper procedures to specific DUI traffic stop scenarios. There will also be a written exam covering all of the course content. At the end of this course, students should be able to: 1) Understand the problems and solutions of the DUI problem, 2) Identify the DUI laws and relative legal issues, 3) Identify the signs of alcohol or drug impairment, 4) Conduct a DUI traffic stop, 5) Follow the three-phase process of a DUI contact, 6) Demonstrate proficiency in conducting the Standardized Field Sobriety Tests, 7) Make an arrest decision based on the presence or absence of specific clues, 8) Accurately complete the required documentation for a DUI arrest, and 9) Provide clear and convincing evidence of DUI in court testimony.

CJK 0086 Traffic Crash Investigations (0.00 Credits)
No Requisites Required
This course is the Traffic Crash Investigations section of the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission New Basic Law Enforcement Recruit Training Program.

CJK 0096 Criminal Justice Officer Physical Fitness Training (0.00 Credits)
No Requisites Required
This course is the Officer Physical Fitness section of the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission New Basic Law Enforcement Recruit Training Program.

CJK 0102 Correctional Operations (0.00 Credits)
No Requisites Required
This course is about specific operational procedures relating to offender intake, classification, discipline and the sentencing reduction process are studied. 64 contact hours.

CJK 0201 CMS LE to Traditional Correctional Cross Over (0.00 Credits)
No Requisites Required
This course is a crossover program designed to cross CMS certified law enforcement officer to work in the State of Florida as certified traditional corrections officers.

CJK 0211 Cross-Over Corrections to Law Enforcement Introduction (0.00 Credits)
No Requisites Required
These courses includes the basic knowledge and skills for certified corrections officer(s) to cross over to become law enforcement officer(s) in: law, interpersonal communications, radio communications, note taking, report writing, interviewing, ethics, professionalism, court structure, working with communities, diverse and special populations, and information about the criminal justice system in Florida and the Criminal Justice Standards and Training Commission.

## CJL-Law and Process

CJL 2062 Constitutional Law & Rules of Evidence (3.00 Credits)
No Requisites Required
This course introduces students to Constitutional Law and Criminal Procedure. Students will examine the application of the laws of arrest, search and seizure and rules of evidence within the criminal justice system. Topics will include the exclusionary rule, self-incrimination, identification of suspects and constitutional rights before and during trial.

CJL 2610 Courtroom Presentation of Scientific Evidence (3.00 Credits)
Prerequisite CJE 2644 with a minimum grade of C and Prerequisite CJE 2676 with a minimum grade of C and Pre- or Co-requisite CJE 1643 with a minimum grade of C and Pre- or Co-requisite CJE 2645 with a minimum grade of C and Pre- or Co-requisite CJE 2672 with a minimum grade of C
This course covers speaking, listening and stress control during courtroom proceedings, dress and grooming. Visual aid preparation and presentations of all evidence (commonly referred to as "scientific evidence") collected at the crime scene are also included. Mock trial exercises will be used.

## CLP-Clinical Psychology

CLP 2140 Abnormal Psychology (3.00 Credits)
Prerequisite PSY 1012 or Prerequisite PSY 1012H
This course is an examination of the major categories of psychological disorders. Diagnostic criteria and treatment methods applicable to psychological disorders are studied. This course has a substantial writing requirement. (Note: Study Abroad opportunities may apply to this course. https://blog.spcollege.edu/international/study-abroad/)

## CLT-Classical Literature In Translation

CLT 2373 Ancient Greek Mythology (3.00 Credits)
No Requisites Required
This course will acquaint the student with the world of mythological gods and heroes of the Ancient Greeks. Literature, art and archaeology will be examined, as well as lifestyles and ideas of the Ancient Greek civilization. (Note: Study Abroad opportunities may apply to this course.)(https://blog.spcollege.edu/international/study-abroad/).

## CNT-Computer Networks

CNT 1000 Network Fundamentals (3.00 Credits)
No Requisites Required

This is a course designed to introduce the student to various local area network (LAN) concepts and wide area network (WAN) technologies. Major topics include network architecture, media, operations and devices, security, troubleshooting, and industry standards & practices. This course also helps students master the skills and knowledge needed to sit for the CompTIA Network + certification exam.

CNT 2940 Computer Networking Internship (3.00 Credits)
Permission of the Program
The purpose of this course is to allow students a "real world" experience with major-related, supervised, evaluated practical work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. (Note: The student must fulfill the requirement of 180 on-the-job hours in addition to written assignments.)

CNT 3010 Foundations: Operating Systems & Networks (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course reviews fundamental principles of modern operating systems and computer networks and relates them to computer programming. Topics include the design of various components of operating systems and services, network structures and devices, network protocol stacks, network performance metrics, network routing algorithms, and network traffic analysis. The role of security in systems and networks is also covered.

CNT 3421 Securing the Cloud (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS)
This course focuses on providing students with the required knowledge, skills, and abilities to architect and design secure cloud-based resources. The course covers securing data and applications in the cloud as well as cloud infrastructure. Governance and compliance issues as they pertain to cloud computing are also considered.

CNT 4425 Cloud Architectures (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course covers the design and the deployment of scalable, highly available and fault-tolerant systems using cloud services. Using hands-on experience, students will learn to implement resilient architectures and design high-performing, secure architectures on a leading cloud platform. The class will also address managing and monitoring storage, computing systems, virtual networks, governance and identity in a cloud environment. Emphasis will be given to understanding best practices and the benefits of cloud-based solutions versus traditionally architected solutions.

## COM-Communications

COM 3120 Organizational Communication (3.00 Credits)
(Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1106 with a minimum grade of C) and (Prerequisite SPC 1017 with a minimum grade of C or Prerequisite SPC 1017H with a minimum grade of C or Prerequisite SPC 1065 with a minimum grade of C or Prerequisite SPC 1608 with a minimum grade of C or Prerequisite SPC 1608H with a minimum grade of C)
This course examines organizational communication as a process of creating, exchanging, interpreting and storing messages within a system of human interrelationships within an organization. Course topics include dissemination, interpersonal communication, work group interaction, nonverbal communication and other areas as they impact individuals' behavior within the organization. Because communication is central to the existence of an organization, emphasis will be placed on practical techniques for diagnosing and resolving organizational communication problems.

COM 3131 Interpersonal Communication (3.00 Credits)
(Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1106 with a minimum grade of C) and (Prerequisite SPC 1017 with a minimum grade of C or Prerequisite SPC 1017H with a minimum grade of C or Prerequisite SPC 1065 with a minimum grade of C or Prerequisite SPC 1608 with a minimum grade of C or Prerequisite SPC 1608H with a minimum grade of C)
This course explores communication within the context of professional interpersonal relationships. Topics include interpersonal communication concepts, monitoring the internal and external environmental factors in interpersonal relationships, determining the relational context, identifying the appropriate communication channel for interpersonal exchanges, and reducing unintended messages. Students will demonstrate their understanding of diversity in their interpersonal relationships.

## COP-Computer Programming

COP 1000 Introduction to Computer Programming (3.00 Credits)
No Requisites Required
This course is an introduction to computer programming. Students will solve programming problems by coding programs that input and process data and generate output. Solutions to programming problems will require coding decision structures, repetition structures, and custom functions. Some programs will require creating and reading text files and working with lists. Additional topics include an overview of how computers work, the Internet, binary numbers, and hexadecimal numbers. (NOTE: To understand the material and complete assessments, students should be comfortable with basic algebra and problem-solving before taking this class. It is recommended that students complete College Algebra (MAC 1105) before enrolling in COP 1000).

COP 1044 Introduction to Data Science using Python (3.00 Credits)
Prerequisite COP 1000 with a minimum grade of C
This course introduces the application of Python 3 modules to data science. Topics include Python for basic statistics, the NumPy module for manipulation of array-based data, Pandas for manipulation of heterogeneous and labeled data, Matplotlib for publication-quality visualizations, and IPython for interactive execution and sharing of code. Students will use Anaconda and Jupyter Notebooks software.

COP 1842 Developing Web Sites Using PHP/MYSQL (3.00 Credits)
Prerequisite COP 1000 with a minimum grade of C and Prerequisite CGS 2823 with a minimum grade of C
This course will teach students necessary skills to effectively implement dynamic Web sites using PHP HyperText Preprocessor (PHP) and MySQL. Topics include configuring PHP and MySQL, reading HTML forms, variables and strings, selections, loops, arrays, text files, cookies and sessions, functions, regular expressions, connecting to a MySQL database, writing basic Structured Query Language (SQL) commands, and developing applications with PHP/MySQL.

COP 2220 Programming in C++ (3.00 Credits)
Prerequisite COP 1000 with a minimum grade of C
This is a programming course in the C language. The student will learn to design, document, prepare, enter, compile, debug and execute C++ programs of moderate sophistication. Major topics covered include: history, structured programming, data types, data structures, and input/output in C++. (Note: This course replaced CGS 2402.)

COP 2222 Advanced C++ Programming (3.00 Credits)
Prerequisite COP 2220 with a minimum grade of C
This is an advanced programming course in C language. Emphasis is placed on programming using classes and structures in C++. Topics covered will include classes, structures, and exception handling.

COP 2250 Java Programming I (3.00 Credits)
Prerequisite COP 1000 with a minimum grade of C
This is a beginning programming course in the Java language. The student will learn to solve programming problems by designing, coding, executing, and debugging Java programs. Major topics covered include: data types and expressions, selections, loops, methods, arrays, class ArrayList, class String, regular expressions, class StringBuilder, data classes and object-oriented programming, and exception handling.

COP 2251 Java Programming II (3.00 Credits)
Prerequisite COP 2250
This course will teach students to write advanced Java programs. The student will learn to write Java programs to solve programming problems dealing with inheritance, abstract classes, interfaces, JavaFX images and JavaFX GUI programming, lambda expressions, generic classes and methods, collections, lists, linked lists, arraylists, stacks, queues, maps, sets, basic SQL (Structured Query Language), and JDBC (Java Database Connectivity).

COP 2360 C# Programming I (3.00 Credits)
Prerequisite COP 1000
This course is a study of the C# (C Sharp) programming language within the .NET Framework. Emphasis is placed upon the position of.NET in software development and creation of .NET applications by applying built in .NET libraries, classes and developing and applying user-defined classes in applications using C#.

COP 2362 C# Programming II (3.00 Credits)
Prerequisite COP 2360
This is an advanced programming course in the C# language. Emphasis is placed on programming using classes and structures in C#. Topics covered will include classes, structures, an introduction to Windows programming, ADO.NET and ASP.NET using C#.

COP 2390 C++ Programming with DirectX (3.00 Credits)
Prerequisite COP 2222 with a minimum grade of C
This is an advanced programming course in C++ language. Emphasis is placed on graphical programming using DirectX, Windows Application Programming Interface (API), the Graphics class, vectors, collision detection, Sprites and animation. Topics covered will include the 2d graphics applications, C++ and DirectX. (Note:This course was formerly CAP 2733.)

COP 2654 iOS App Development (3.00 Credits)
Prerequisite COP 1000 with a minimum grade of C
This is an introductory course in application development for iOS devices. Students will study the Objective-C language and observe Apple standard design patterns including Model-View-Controller (MVC). The Xcode Integrated Development Environment (IDE) will be used to create and test a number of apps. Web-based app development tools will also be introduced. Students will learn how to provision their apps to their own iOS devices and for distribution to the AppStore. An Apple desktop or laptop is required for this course. For face-to-face and blended classes the course is taught in an Apple computer lab. Online students must own, or have access to, an Apple computer. Students will benefit greatly by owning an iPhone, iPad, or iPod Touch but this is not compulsory since the software includes a simulator.

COP 2660 Introduction to Android Programming (3.00 Credits)
Prerequisite COP 2251 with a minimum grade of C
This is an introductory course in Android application development for smartphones and tablets. Students will use the Android Software Development Kit (SDK) with Java and Android Studio developer tools to create and test apps on the Android emulator and on their own Android devices. Topics include user interface layouts and views, activities, intents, fragments, data persistence with files and SQLite databases. Students will gain fundamental knowledge essential to not only Android development, but mobile development in general.

COP 2801 JavaScript (3.00 Credits)
Prerequisite COP 1000 with a minimum grade of C
This course will teach students to write JavaScript programs that can be executed by the major Web browsers. These programs will be created using this object-based scripting language. Students will conceptualize and develop JavaScript programs using strings, arrays, built-in functions, user-defined functions, control structures, and looping structures.

COP 2803 Client-Side JavaScript (3.00 Credits)
Prerequisite COP 2801 with a minimum grade of C and Prerequisite CGS 1831 with a minimum grade of C
This course focuses on advanced concepts and programming skills required to build modern rich internet applications utilizing the JavaScript language. Topics include application architecture, general libraries such as YUI, Prototype, Underscore.js; Building Internet Applications; Animations and Effects; Cryptography and Security; High-Performance JavaScript, and Unit Testing.

COP 2806 Java Web Applications (3.00 Credits)
Prerequisite COP 2250 with a minimum grade of C and Prerequisite CGS 1831 with a minimum grade of C
This course is designed to introduce students to the concepts fundamental to the analysis, design, and development of software that operates on web servers and web browsers, supporting multiple concurrent users. The emphasis is on Java web technologies.

COP 2839 ASP.NET Programming with C# (3.00 Credits)
Prerequisite COP 2837 or Prerequisite COP 2360
This course is the study of the creation of Web server based components to generate Hypertext Markup Language (HTML) using Active Server Pages.NET (ASP.NET) in a C# programming environment. ASP.NET programs are created using an event driven programming model. Server controls and Web forms are studied in depth.

COP 2843 Advanced PHP/MySQL (3.00 Credits)
Prerequisite COP 1842
This course extends the study of PHP and MySQL begun in COP 1842, Developing Web Sites Using PHP/MySQL. Topics include MySQL transactions and stored procedures, authentication and authorization, using PEAR, PHP and MySQL security, networking applications, session control, templates, serialization, the CodeIgniter framework, XML and web services, Google maps, Amazon scripts, and shopping carts.

COP 2844 Server-Side JavaScript (3.00 Credits)
Prerequisite COP 2801 with a minimum grade of C
Modern web application development can be split into two major functional areas: client-side and server-side. This course will teach students to write JavaScript programs that run server-side. These programs will be created using this object-based scripting language. Students will conceptualize and develop server-side applications utilized to carry out processing on the server and exposing data via HTTP.

COP 2940 Computer Programming Internship (3.00 Credits)
Permission of the Program

The purpose of this course is to allow students a “real world” experience with major-related, supervised, evaluated practical work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. The student must fulfill the requirement of 180 on-the-job hours in addition to written assignments. To view the specific requirements and process to enroll in this course, please see your program’s internship course checklist.

COP 3035 Intermediate Computer Programming (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) ; Subplan: Software Development (SOFTDEV) or Permission of the Program
As an intermediate level computer programming course, students will build upon their programming knowledge and skills by using an appropriate programming language to plan, code, and debug object-oriented programs (OOP). Course topics include the design and use of common OOP data structures and their associated algorithms.

COP 4504 Advanced Software Programming (3.00 Credits)
Prerequisite COP 3035 with a minimum grade of C and Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course covers advanced concepts of computer programming including object-oriented programming, procedural and data implementation and program modularity. This is an advanced level programming course and it is recommended that students have completed a lower level programming language.

COP 4533 Algorithmic Design and Development (3.00 Credits)
Prerequisite COP 3035 with a minimum grade of C and Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course exposes the student to the topics of data structures, algorithms, algorithm design and analysis by focusing on design methods and efficiency analysis. Methods start with brute force, divide-and-conquer and then move on to more difficult ideas like dynamic programming and greedy technique. Popular puzzles are used to motivate students' interest and strengthen their skills in algorithmic problem solving. This is an advanced level programming course and it is recommended that students have completed a lower level programming language.

## CPO-Comparative Politics

CPO 2002 Comparative Government (3.00 Credits)
Prerequisite POS 2041
This course is a comparative study of selected countries and political systems. The course will examine forms of government, institutions, political culture, policy-making processes and contemporary problems.Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

## CRW-Creative Writing

CRW 2001 Creative Writing (3.00 Credits)
Prerequisite ENC 1101 or Prerequisite ENC 1101H
This course is offered for students desiring experience in such forms as the short story, poetry, the novel, etc. and is conducted under workshop conditions. The class will discuss outstanding contemporary writers' work as patterns and also read and analyze the student writing assignments. Each student may specialize in one literary form in a term project, as determined in conference with the instructor. This course has a substantial writing requirement.

CRW 2100 Fiction Workshop (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1101H with a minimum grade of C or Prerequisite IDS 1111H with a minimum grade of C or Permission of the Program
This course, offered for students desiring experience in the writing of fiction, is conducted under workshop conditions. The class will discuss outstanding contemporary fiction writers' work as positive examples, explore the elements of both short stories and novels, and analyze student fiction in a workshop situation. Term project will consist of a collection of stories or part of a novel, the parameters of which will be determined by the instructor. This course has a substantial writing requirement.

CRW 2300 Poetry Workshop (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1101H with a minimum grade of C or Prerequisite IDS 1111H with a minimum grade of C or Permission of the Program
This course, offered for students desiring experience in the writing of poetry, is conducted under workshop conditions. The class will discuss outstanding contemporary poets' work as positive examples, explore the elements of both formal and free verse poetry, and analyze student poetry in a workshop situation. Term project will consist of a collection of poems, the parameters of which will be determined by the instructor. This course has a substantial writing requirement.

## CTS-Computer Technology Skills

CTS 1120 Network Security Foundations (3.00 Credits)
No Requisites Required
It is recommended that the student have previous computer network training or experience. This course provides the students with an overview of Information Technology (IT) Security and introduces the components necessary to secure network information systems. Topics include security policies, Intrusion Detection Systems (IDS), firewalls, operating system security and network security basics. Students will also be introduced to current hacker techniques and log auditing processes. Current computer security issues will also be explored as class projects. This course along with CIS1358 prepares students for the Security+ certification offered by CompTIA. (Note: Credit is only given for CTS 1120 or CJE 1678.)

CTS 1193 Cloud Essentials (3.00 Credits)
No Requisites Required
This course provides an introductory survey of cloud computing. Students will learn how cloud computing can help organizations achieve goals and create business value. Students will also gain an understanding of how cloud computing impacts IT service management. The course examines governance, risks and consequences associated with cloud computing, as well as its impact on application development.

CTS 1303 Configuring Advanced Windows Server Services (3.00 Credits)
Prerequisite CTS 1334 with a minimum grade of C
This course provides students with the knowledge and skills to successfully configure advanced services in a distributed Windows Server environment. The course focuses on advanced configuration of services necessary to deploy, manage and maintain a Windows Server infrastructure, such as: configuring and managing high availability; configuring file and storage solutions; implementing business continuity and disaster recovery; configuring network services; configuring an Active Directory (AD) infrastructure; and configuring access and information protection solutions. The course is intended to provide the skills and knowledge necessary to sit for the 70-742 MCSA certification exam.

CTS 1314 Network Defense and Countermeasures (3.00 Credits)
Prerequisite CTS 1120 with a minimum grade of C

This course will explore concepts of network defense and countermeasures as well as hardware and software required to design, configure and implement secure networks. Security topics covered in this course include firewalls, Intrusion Detection Systems (IDS), Virtual Private Networks (VPN) and policy creation using applicable operating system software, Transmission Control Protocol/Internet Protocol (TCP/IP) packet/signature analysis, and overall system hardening against exploits. Hands-on instruction will include installing the network defense mechanisms and countermeasure applications. Software will be used for collecting, monitoring and auditing various activities; students will analyze threats and intrusions. Multiple business scenarios will be reviewed to determine which security policy provides the most protection at an acceptable level of risk in order to conduct business.

CTS 1327 Configuring and Administering MS Windows Client (3.00 Credits)
No Requisites Required
The purpose of this course is to address the implementation and desktop support needs of customers that are planning to deploy and support Microsoft Windows Client. The course focuses on four main areas: installing; securing; networking; and mobile computing features. Additionally, this course addresses the customers' need for knowledgeable personnel that can support desktops running Microsoft Windows Client Operating Systems.

CTS 1328 Windows Server Hybrid Administration (3.00 Credits)
Prerequisite CNT 1000 with a minimum grade of C or Prerequisite CET 1172C with a minimum grade of C

This course is designed to provide students with the basic skills to manage Windows Servers in an on-premises, cloud, or hybrid configuration. This course focuses on how to package, update, secure, deploy, configure, and troubleshoot Windows Servers and implement PowerShell, Hyper-V, containers, storage solutions, high availability and disaster recovery in a Windows Server environment. It will also help you master the skills and knowledge you're going to need to sit for the Microsoft AZ-800: Administering Windows Server Hybrid Core Infrastructure certification.

CTS 1334 Networking with Windows Server (3.00 Credits)
Prerequisite CTS 1328 with a minimum grade of C
The goal of this course is to provide students with the knowledge and skills necessary to implement a core Windows server network infrastructure in an existing enterprise environment. The course is intended for systems administrators or systems engineer candidates who are responsible for administration tasks necessary to maintain a Windows Server network infrastructure. The course is intended to provide the skills and knowledge necessary to sit for the 70-741 MCSA certification exam.

CTS 1411 Fundamentals of Information Storage and Management (3.00 Credits)
Prerequisite CET 1610 with a minimum grade of C or Prerequisite CTS 1328 with a minimum grade of C or Prerequisite CNT 1000 with a minimum grade of C
This course covers modern storage infrastructure technology and management including: challenges and solutions for data storage and data management, intelligent storage systems, storage networking, backup, recovery, and archive, business continuity (BC) and disaster recovery, security and virtualization, managing and monitoring the storage infrastructure. Best practices for security policies of cloud resources including permissions, privileges and storage management are analyzed and performed.

CTS 2106 Fundamentals of the Linux Operating System (3.00 Credits)
Prerequisite COP 1000 with a minimum grade of C or Prerequisite CNT 1000 with a minimum grade of C or Prerequisite CET 1600 with a minimum grade of C or Prerequisite CET 1172C with a minimum grade of C

This course is designed to provide students with the basic concepts and components of the Linux operating system. No prior experience with Linux is required. The course focuses on the Linux command line, system navigation, working with files, text editors, searching for files and text, creating and restoring backups and archives, basic system security, users/groups and file permissions, and how to create and run simple scripts. The course also provides the skills and knowledge necessary to sit for Linux Professional Institute LPI Linux Essentials exam.

CTS 2312 Cloud Security (3.00 Credits)
Prerequisite CIS 2642C with a minimum grade of C

This course covers topics in areas including key cloud concepts, architecture and design with a focus on expertise in security for cloud-data, cloud platform and infrastructure, cloud applications and cloud security operations. The curriculum covers the technical skills and abilities necessary to design, manage and secure data, applications and infrastructure in the cloud. In addition, legal and compliance aspects of cloud usage will be discussed.

CTS 2321 Linux System Administration (3.00 Credits)
Prerequisite CTS 2106 with a minimum grade of C

This course is designed to provide students with the competency required for system administrators to configure, manage, troubleshoot, perform, create and maintain support tasks related to the Linux operating system. The course covers such topics as the Linux file system, commands, utilities, text editing, user account administration, shell programming and text processing utilities. Students learn command line syntax and features of the Linux shell. The course also provides the skills and knowledge necessary to sit for the CompTIA Linux+ certification exam.

CTS 2322 Linux System Administration II (3.00 Credits)
Prerequisite CTS 2321 with a minimum grade of C
A continuation of Linux System Administration I, this course is designed to teach students the skills they need to effectively administer Linux systems. Students will configure, manage, troubleshoot, perform, create and maintain support tasks related to their individual Linux system. Major topics covered include printer management, CUPS, TCP/IP parameters, network services, NTP, NFS, MTA, localization, and basic host security.

CTS 2370 Configuring and Managing Virtualization (3.00 Credits)
Prerequisite CTS 1411 with a minimum grade of C
This course equips students with the knowledge, skills, and abilities to build and run a virtualized networking environment. It focuses on the installation and configuration of various virtual hosts and virtual servers. It also focuses on the management of virtualized hosts and virtual machines using various hypervisors. This course helps prepare students to achieve the status of VMware® Certified Professional.

CTS 2417 Data Visualization Techniques (3.00 Credits)
Prerequisite CGS 1515 with a minimum grade of C
This course introduces students to key design principles and techniques for interactively visualizing data. In addition to understanding how visual representations are used in the analysis and understanding of complex data, students will acquire data visualization skills including designing effective visualizations and creating interactive visualizations using spreadsheets.

CTS 2433 SQL Database Design & Programming (3.00 Credits)
Prerequisite COP 1000 with a minimum grade of C
This course is designed to familiarize students with SQL (Structured Query Language) in a relational database environment to include database programming and development. A series of database application assignments using SQL commands is designed to promote competency in ER (Entity Relationship) database modeling, database creation, database programming, and database optimization. The objective is to build a working knowledge and hands-on understanding of SQL.

CTS 2450 Introduction to Business Intelligence (3.00 Credits)
Prerequisite CTS 2433 with a minimum grade of C and Prerequisite CTS 2417 with a minimum grade of C
This course provides the fundamental concepts and methods needed to understand the emerging role of business intelligence and analytics in organizations. The student will learn how to apply basic business intelligence analytical methods including descriptive and predictive techniques.

CTS 2455 Data Modeling and Logical Design (3.00 Credits)
Prerequisite CTS 2433 with a minimum grade of C
This is a foundational course in which students will extend knowledge beyond the physical storage of data to the modeling of the environment that will ultimately become a database. The focus is on the logical design of that environment. Topics covered will include the architecture and components of a database, entity-relationship modeling, enhanced entity-relationship modeling, and the relational data model. Additional coverage will encompass database normalization to include functional dependencies and the transition of the model from logical to physical form.

CTS 2940 Cybersecurity Internship (3.00 Credits)
Permission of the Program

The purpose of this course is to allow students a “real world” experience with major-related, supervised, evaluated practical work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. (Note: The student must fulfill the requirement of 180 on-the-job hours in addition to written assignments.) To view the specific requirements and process to enroll in this course, please see your program’s internship course checklist.

CTS 4124 Threat Detection and Mitigation (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS)
This course examines threats to computer networks, network vulnerabilities, techniques for strengthening passive defenses, tools for establishing an active network defense, and policies for enhancing forensic analysis of crimes and attacks on computer networks. Topics include private and public key cryptography, digital signatures, secret sharing, security protocols, formal methods for analyzing network security, electronic mail security, firewalls, intrusion detection, internet privacy and public key infrastructure. This course contains foundational coverage in preparing for CompTIA’s CySA+. Students will need additional remediation to ensure success on the exam.

CTS 4454 Business Intelligence and Data Mining (3.00 Credits)
Prerequisite ISM 4545 with a minimum grade of C and Prerequisite CAP 4770 with a minimum grade of C and Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course is designed to introduce students to business intelligence concepts and provide students with an understanding of data warehousing and data mining along with associated techniques and their benefits to organizations of all sizes.

## DAA-Dance Activities

DAA 1100 Modern Dance I (1.00 Credits)
No Requisites Required
This course includes elementary modern dance techniques and the basic elements of design and the fundamental factors related to movement. In addition to learning the basic principles of proper body alignment, balance and rhythm, an overview of the historical background of modern dance will be provided. No dance experience is necessary for the successful completion of the class. (Note: This course may be taken up to 6 times for a total of 6 credits.)

DAA 1200 Ballet I (1.00 Credits)
No Requisites Required
This course is an introduction to techniques at the barre using basic foot, arm and body positions. Basic center work is also included. (Note: This course may be taken up to 6 times for a total of 6 credits.)

DAA 1500 Jazz Dance I (1.00 Credits)
No Requisites Required
This course is an introduction to the jazz style of dance in which the student coordinates movements with isolated parts of the body. In addition to learning the basic principles of proper body alignment, balance and syncopation, an overview of the history of jazz dance will be provided. No prior dance experience is necessary for the successful completion of the class. (Note: This course may be taken up to 6 times for a total of 6 credits.)

DAA 1680 Dance Repertory I (1.00 Credits)
No Requisites Required
This course enables students of dance to earn academic credit for their participation in a public dance presentation. Through intensive rehearsal and performance experiences the student will acquire skills in movement, human understanding, cooperation and self discipline. Minimum of 2 hours required during rehearsal periods. Additional hours may be required during production weeks. (Note: This course may be taken up to 6 times for a total of 6 credits.)

DAA 2101 Modern Dance II (1.00 Credits)
Prerequisite DAA 1100 with a minimum grade of B or Permission of the Program
This course is a continuation of Modern Dance I and is geared toward intermediate level combinations of movement which promote the understanding of modern dance theory and technique. (Note: This course may be taken up to 6 times for a total of 6 credits.)

DAA 2201 Ballet II (1.00 Credits)
Prerequisite DAA 1200 or Permission of the Program
This course is a continuation of Ballet I, an intermediate course in classical ballet with emphasis on the balletic style. (Note: This course may be taken up to 6 times for a total of 6 credits.)

DAA 2681 Dance Repertory II (1.00 Credits)
No Requisites Required
This course enables students of dance to earn academic credit for their participation in a public dance presentation. Through intensive rehearsal and performance experiences the student will acquire skills in movement, human understanding, cooperation and self-discipline. Some touring experiences may be provided. Audition or permission of instructor required. Four hours per week is the minimum requirement during rehearsal times. Additional hours may be required during production weeks. (Note: This course may be taken up to 6 times for a total of 6 credits.)

## DAN-Dance

DAN 1768 Applied Lessons in Alexander Technique (2.00 Credits)
No Requisites Required
Private instruction. No audition required. This course includes elementary Alexander techniques, basic elements of kinesthetic awareness and injury prevention. In addition to learning the basic principles of proper body alignment, students will recognize and release habits of movement and thinking that cause tension and hinder movement. In addition, this course will include a study of anatomy and body alignment, the writings of F. M. Alexander and others related to the Alexander Technique. No experience is necessary for the successful completion of the class. (Note: This course may be taken up to 3 times for a total of 6 credits.)

## DEH-Dental Hygiene

DEH 1000 Introduction to Dental Hygiene (2.00 Credits)
Admission to Dental Hygiene (Associate in Science) (DENHY-AS) and (Prerequisite MCB 2010 with a minimum grade of C and (Prerequisite MCB 2010L with a minimum grade of C or Prerequisite MCB 2010CH with a minimum grade of C) ) and (Pre- or Co-requisite DES 1020 with a minimum grade of C and Pre- or Co-requisite DES 1020L with a minimum grade of C)
This course is designed to acquaint the student with the role of a dental hygienist and provide the background information and knowledge necessary to function in subsequent clinical dental hygiene courses.

DEH 1003 Dental Hygiene I (2.00 Credits)
Prerequisite DEH 1000 with a minimum grade of C and Prerequisite DES 1020 with a minimum grade of C and Prerequisite DES 1020L with a minimum grade of C and Pre- or Co-requisite DEH 1003L
This course is designed to provide the student with knowledge of the basic principles of instrumentation, instrument design, and fundamental skills necessary to perform in subsequent clinical dental hygiene courses.

DEH 1003L Dental Hygiene I Clinic (4.00 Credits)
Prerequisite DEH 1000 with a minimum grade of C and Prerequisite DES 1020 with a minimum grade of C and Prerequisite DES 1020L with a minimum grade of C and Pre- or Co-requisite DEH 1003
This course is designed to apply the basic principles of instrumentation, instrument design, and fundamental dental hygiene skills in a clinical setting; the method of instruction is competency-based and individually guided. (Note: Two four-hour clinics weekly).

DEH 1130 Oral Histology and Embryology (2.00 Credits)
Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C and Prerequisite DES 1020 with a minimum grade of C and Prerequisite DES 1020L with a minimum grade of C
This course is a comprehensive study of the specific tissues and cells comprising the anatomical parts of the oral cavity and an investigation of the embryonic development of these tissues and related facial and oral structures.

DEH 1710 Biological Chemistry & Applied Nutrition (1.00 Credits)
Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C and Prerequisite DEH 1130 with a minimum grade of C
This course presents the biochemical aspects of nutrition and an overview of organic chemistry as applied to the practice of dental hygiene. Included are basic principles of nutrition, knowledge of the principle nutrients in foods and their utilization by the body. Emphasis will be placed on the practical aspects of nutritional counseling and the control of oral disease.

DEH 1720 Preventive Dentistry (2.00 Credits)
Prerequisite DEH 1000 with a minimum grade of C
This course is designed for the dental hygiene student to develop knowledge of the oral physiotherapy aids and methods for health promotion, disease prevention and patient education.

DEH 1800 Dental Hygiene II (2.00 Credits)
Prerequisite DEH 1000 with a minimum grade of C and Prerequisite DEH 1003 with a minimum grade of C and Prerequisite DEH 1003L with a minimum grade of C and Pre- or Co-requisite DEH 1800L with a minimum grade of C
This course is designed to further the student's knowledge of dental hygiene practice including ultrasonic instrumentation, theory and technique of instrument sharpening, dental hygiene care planning, dental charting, and patients with special needs.

DEH 1800L Dental Hygiene II Clinic (4.00 Credits)
Prerequisite DEH 1003 with a minimum grade of C and Prerequisite DEH 1003L with a minimum grade of C and Pre- or Co-requisite DEH 1800 with a minimum grade of C
This course will provide clinical experience in total patient care. Emphasis will be placed on instrumentation, radiographic techniques, patient education and treatment planning. 180 contact hours.

DEH 2300 Dental Pharmacology (2.00 Credits)
Prerequisite DEH 1800 with a minimum grade of C
This course will provide students the basic concepts in general pharmacology including drug classifications, interactions, indications and contraindications. It surveys drugs commonly encountered in the dental office with a special emphasis given to drug actions affecting dental treatment procedures.

DEH 2400 General and Oral Pathology (2.00 Credits)
Prerequisite DES 1020 with a minimum grade of C and Prerequisite DES 1020L with a minimum grade of C
This course provides principles of general pathology in relationship to the diseases of the teeth, soft tissues, supporting structures of the oral cavity, and peri-oral tissues. The importance of recognition of normal and abnormal conditions in the head and neck by the dental hygienist is emphasized.

DEH 2602 Periodontics I (2.00 Credits)
(Prerequisite MCB 2010 with a minimum grade of C and (Prerequisite MCB 2010L with a minimum grade of C or Prerequisite MCB 2010CH with a minimum grade of C) ) and (Prerequisite DEH 1130 with a minimum grade of C and Prerequisite DES 1020 with a minimum grade of C and Prerequisite DES 1020L with a minimum grade of C and Pre- or Co-requisite DEH 1800 with a minimum grade of C and Pre- or Co-requisite DEH 1800L with a minimum grade of C)
This course is a comprehensive study of the etiology, assessment, classification, and treatment of periodontal diseases, and the maintenance of the periodontal patient. The dental hygienist’s role in the assessment and treatment modalities will be emphasized.

DEH 2604 Periodontics II (2.00 Credits)
Prerequisite DEH 2602 with a minimum grade of C
This course will encompass the continuation of the study of some of the periodontal risk factors involved in periodontal disease, the assessments, the therapies, and the dental hygienist’s role in risk assessment and treatments. The utilization of case studies and research in discussing evidence-based care planning will be presented.

DEH 2701 Community Dental Health (3.00 Credits)
Prerequisite DEH 2802L with a minimum grade of C
This course is an introduction to the study of attitudes, skills and behaviors pertinent to dental health and the prevention of dental disease through organized community-based programs. Students will be responsible for developing a preventive oral health program using assessment, planning, implementation and evaluation procedure and will be able to critique research articles and understand all aspects of dental public health.

DEH 2702C Community Dental Health Practicum (1.00 Credits)
Prerequisite DEH 2701 with a minimum grade of C or Pre- or Co-requisite DEH 2701 with instructor or program director approval
This practicum provides the student with the opportunity to apply the principles of public and community dental health. The student will assess, plan, implement and evaluate community based oral health programs, which will include health promotion and disease prevention activities. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

DEH 2802 Dental Hygiene III (1.00 Credits)
Prerequisite DEH 1800 with a minimum grade of C and Prerequisite DEH 1800L with a minimum grade of C
This course is designed to introduce students to the principles of dental hygiene practice management, interprofessional education, soft communication skills and to table clinic presentations.

DEH 2802L Dental Hygiene III Clinic (3.00 Credits)
Prerequisite DEH 1800 with a minimum grade of C and Prerequisite DEH 1800L with a minimum grade of C
This course will provide ongoing clinical experience in total patient care. Instrumentation, radiographic skills, patient education and treatment planning will again be emphasized.

DEH 2804 Dental Hygiene IV (2.00 Credits)
Prerequisite DEH 1800 with a minimum grade of C and Prerequisite DEH 1800L with a minimum grade of C and Prerequisite DEH 2802 with a minimum grade of C
This course is designed to expand students' knowledge of dental hygiene practice including special needs patients, expanding functions and various adjunctive services.

DEH 2804L Dental Hygiene IV Clinic (4.00 Credits)
Prerequisite DEH 2802L with a minimum grade of C
This course will provide ongoing experience in total patient care. Treatment parameters will be increased to include expanded functions as well as treating patients with special needs.

DEH 2806 Dental Hygiene V (2.00 Credits)
Prerequisite DEH 2804 with a minimum grade of C and Pre- or Co-requisite DEH 2806L
This course is designed to provide knowledge of professional ethics and legal responsibilities, professional organizations, state dental practice acts and continuing education regulations and requirements. Dental office management will be introduced to provide dental hygiene students with the business and professional skills necessary to practice in an office and/or alternate practice setting.

DEH 2806L Dental Hygiene V Clinic (5.00 Credits)
Prerequisite DEH 2804L with a minimum grade of C
This course will enable the student to incorporate all the techniques and modes of treatment previously acquired. Emphasis will be placed on continuity of quality patient care , time efficiency and professional decision making in rendering dental hygiene services.

DEH 3000 Upper Division Dental Hygiene Credit (10.00 Credits)
No Requisites Required
Credits granted by SPC if student has a valid Dental Hygiene License

DEH 3730 Dental Hygiene Educational Concepts (3.00 Credits)
(Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS) and Pre- or Co-requisite DEH 3813 with a minimum grade of C) or Permission of the Program
This course is designed to provide the student with an introduction to educational concepts and theory relative to dental hygiene education. Topics included are principles of learning, learning styles and motivation, mechanics of course development and design, educational instruction methods, using educational media and software, and student evaluation Emphasis will be on presenting the basic concepts of educational planning, development and evaluation.

DEH 3813 Contemporary Issues in Dental Hygiene (4.00 Credits)
Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS) or Permission of the Program
This course is designed to update the student with the changing trends in the dental hygiene profession. The role of the dental hygienist is to keep up with new systems in health care delivery, changing technology, increased geriatric population and a more informed public. Through this course and group projects, the student will begin developing skills in research and educational presentation.

DEH 3814 Introduction to Dental Hygiene Research (4.00 Credits)
Prerequisite DEH 3730 with a minimum grade of C or Permission of the Program

This course is an overview of the role and scope of research as it relates to the formation of dental hygiene knowledge and its application to dental hygiene practice. The focus is on basic strategies, methodologies, and types of research design. Thoughtful analysis of current oral health research is included.

DEH 4607 Advanced Periodontics (4.00 Credits)
Prerequisite DEH 3814 and (Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS) or Permission of the Program)
This course will expand on the student's existing knowledge of current concepts in etiology, risk factors, assessment, treatment planning, implementation and evaluation of contemporary treatment modalities and maintenance therapy. The interrelationship of periodontal treatment with other dental specialties will be discussed along with an investigation of the periodontal literature. Emphasis will be placed on the dental hygienist's role in periodontal therapy.

DEH 4851 Practice Management for the Dental Hygienist (3.00 Credits)
Prerequisite DEH 3814Introduction to Dental Hygiene Research and (Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS) or Permission of the Program)
This course is designed to assist the dental hygienist in understanding and applying the principles of management related to a dental hygiene practice and other healthcare settings. The concepts of patient, office and dental team management will be explored. Strategies will be presented on the marketing and promoting of dental services and dental products to dental professionals and the general public.

DEH 4852 Advanced Ethics in Dental Hygiene (3.00 Credits)
Prerequisite DEH 3813 with a minimum grade of C and (Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS) or Permission of the Program)
This course will explore the ethical behavior in various health care settings. Students will analyze decision making models, theories, values, and professional obligations and apply them to their roles as health care professionals.

DEH 4854 Leadership in Dental Hygiene (3.00 Credits)
Pre- or Co-requisite DEH 4851 with a minimum grade of C and Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS)
This course focuses on the theories, concepts and principles of leadership. Emphasis will be on the development of leadership skills related to personal behavior, communication, organization and self-examination. This course explores opportunity to develop leadership roles appropriate to the dental hygiene profession.

DEH 4901 Independent Study in Dental Hygiene (1.0-3.00 Credits)
Permission of the Program
This course may be taken to satisfy dental hygiene credits required for graduation. It provides an opportunity for an individual or small group of students to systematically validate the programs outcomes. In addition, current concepts in dental hygiene care will be discussed. It may involve a case study or other project that provides an opportunity for increasing breadth or depth of knowledge or skill.

DEH 4947 Dental Hygiene Capstone (7.00 Credits)
Prerequisite DEH 4607 and Prerequisite DEH 4851 and Prerequisite HSC 3201 and (Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS) or Permission of the Program)
This course is designed to provide students an opportunity to apply their knowledge of a chosen professional role through teaching, internship, observation or work experience. This course will use selected sites on and off campus to develop the expanding role of the dental hygienist in the health care system.

## DEP-Developmental Psychology

DEP 2004 Lifespan Psychology (3.00 Credits)
Prerequisite PSY 1012 with a minimum grade of C

Lifespan Psychology examines human development from conception to death. Special emphasis is on the ongoing physical, psychological, and social changes which result from the interaction of inherited and environmental factors, and on the uniqueness of the individual. Students will examine the ways in which age, gender, ethnicity, and race affect development. This course has a substantial writing requirement.

DEP 2102 Child Development (3.00 Credits)
Prerequisite PSY 1012 with a minimum grade of C

This course is an in-depth study of the development of children from conception through adolescence. It includes the major theories, research methodology, genetic and environmental influences, and stages and domains of development. Consideration is given to gender, cultural, and ethnic influences on development. (Note: This course has a substantial writing requirement. Credit is only given for PSY 1012 or PSY 1020H.)

DEP 2949 Co-op Work Experience (1.0-3.00 Credits)
Permission of the Program
This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. Variable credits are available, one to three per course. The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments. (Note: This course may be taken up to 12 times for a total of 12 credits.)

DEP 3305 Psychology of Adolescence (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) and (Prerequisite PSY 1012 or Prerequisite PSY 1012H)
This course is designed to focus on the various theories regarding the physical and psychosocial development of children ranging from pre-adolescence to adolescence. The course follows the social, emotional, cognitive, moral, and physical development of youth during this critical time and will consider the influences of biology, family, culture, school, and peers. Significant issues facing adolescents today are addressed. Emphasis is placed on the interaction between the role of the teacher and the needs and learning styles of students at these various developmental ages and stages. (Note: A minimum of 5 field-based or school-based hours of observation/teaching specifically are required.)

## DES-Dental Support

DES 1020 Orofacial Anatomy (2.00 Credits)
Admission to Dental Hygiene (Associate in Science) (DENHY-AS) and Pre- or Co-requisite DES 1020L
This course is the study of skeletal, muscular, circulatory, nervous and glandular structures of the head, neck and oral cavity. Also included is the study of macroscopic anatomy and morphology of the hard and soft tissues of the oral cavity.

DES 1020L Orofacial Anatomy Laboratory (1.00 Credits)
Admission to Dental Hygiene (Associate in Science) (DENHY-AS) and Pre- or Co-requisite DES 1020 with a minimum grade of C
This course is designed to enable students to identify the teeth and orofacial structures, including morphology of hard and soft tissues of the oral cavity, head and neck, and their surrounding structures. Experience with clinical examination of these structures is also included.

DES 1200 Dental Radiography (2.00 Credits)
Prerequisite DES 1020 with a minimum grade of C and Prerequisite DES 1020L with a minimum grade of C and Pre- or Co-requisite DES 1200L with a minimum grade of C

This course provides the fundamental background and theory for the safe and effective use of ionizing radiation as it relates to dentistry. It encompasses the history of x-rays, production and uses of radiation, dental radiographic techniques, exposure factors, interpretation of dental radiographs, and radiation protection.

DES 1200L Dental Radiography Laboratory (1.00 Credits)
Prerequisite DES 1020 with a minimum grade of C and Prerequisite DES 1020L with a minimum grade of C and Prerequisite DEH 1000 with a minimum grade of C and Pre- or Co-requisite DES 1200 with a minimum grade of C
In this laboratory course, emphasis is placed on competency in exposing diagnostically acceptable dental images. Laboratory sessions provide experience in the use of x-ray machines, various exposure projections and techniques, processing, mounting, interpreting and critiquing dental radiographs.

DES 1601 Emergencies in Dental Hygiene (1.00 Credits)
Pre- or Co-requisite DEH 1000 with a minimum grade of C
This course is designed to provide students with an understanding of basic dental medical emergencies. Special emphasis will be placed on etiology, sign, treatment and prevention of emergencies in the dental hygiene environment.

DES 2100 Dental Materials (2.00 Credits)
Prerequisite DEH 1003 with a minimum grade of C and Prerequisite DEH 1003L with a minimum grade of C and Pre- or Co-requisite DES 2100L with a minimum grade of C
This course is a study of the chemical, physical and biological properties of materials used in dentistry, as well as their manipulation and utilization.

DES 2100L Dental Materials Laboratory (1.00 Credits)
Prerequisite DEH 1003 with a minimum grade of C and Prerequisite DEH 1003L with a minimum grade of C and Pre- or Co-requisite DES 2100 with a minimum grade of C
This course is a practical, hands-on approach to dental materials to enhance the students' understanding of the physical and chemical properties of the materials.

## DIG-Digital Media

DIG 1004 Exploration of Media Tools (3.00 Credits)
No Requisites Required
This course prepares the incoming student for the basic skills needed for success in Digital Media and Internet & Web programs. It is highly recommended that students have a basic level of competency in utilizing computer input devices such as a computer keyboard, mouse, or touchscreen.

DIG 1710 Introduction to Game Development Programming (3.00 Credits)
Prerequisite DIG 1004 with a minimum grade of C
This course explores programming as it relates to game development. The students will develop programming skills necessary to create simple game programs in one or more programming languages. This course includes a survey of programming languages that could be used for game development. The students will develop problem solving skills necessary to become competent in the design of computer game programs.

DIG 2000 Introduction to Digital Media (3.00 Credits)
Prerequisite computer competency met.
This is a survey course designed to introduce the concepts of digital multimedia. Students will explore the path of contemporary digital design, highlighting the importance of process, innovation and communication. Students will be introduced to the history, principles and processes associated with digital media and designing for digital media, with emphasis on production. Students will be exposed to different areas of multimedia that include text, images, audio, video, various software programs, and animation. Students will have the opportunity to manipulate text, capture images, edit audio, create video, and design simple animations. Students will combine the components to design and develop several digital media presentations.

DIG 2030 Survey of Digital Video (3.00 Credits)
No Requisites Required
This course introduces the student to the foundational concepts of digital video. Topics to be covered include video basics, digital video (DV) technology, system configuration, the development process, editing, production, effects and presentation. A variety of digital video development tools will be explored. The course also delves into alternative applications of the technology behind the medium, and looks at the past and the future in the hopes of gleaning more insights into what is fast-becoming a major growth area of the worldwide entertainment industry.

DIG 2040 Survey of Game Development (3.00 Credits)
Prerequisite DIG 2000 with a minimum grade of C
This course is an introductory overview of the electronic game development process and underlines the historical context, content creation strategies, and future trends in the industry. The course will also explain how games are produced, tested and released. The student will create several documents related to developing storylines and characters. To become more familiar with the gaming industry, the student will be required to play and analyze several contemporary games. Different gaming genres will be explored to help understand various strategies and levels. In addition, this course will explore the entertainment market and gaming career fields.

DIG 2091 Legal Issues in Media Development (2.00 Credits)
Prerequisite computer competency met.
This course will explore the most important aspects of intellectual property law, particularly copyright law, and their relationships to multimedia production. The course will explore ethical issues relating to both content and distribution of such productions.

DIG 2100 Web Design I (3.00 Credits)
Prerequisite computer competency met.
This course introduces basic concepts, issues and techniques related to designing, developing and deploying Web sites using current Web standards. During the course, students will explore Web design, HyperText Markup Language (HTML), Extensible Hypertext Markup Language (XHTML) and Cascading Style Sheets (CSS). Students will author World Wide Web sites using markup and development software. Students will be introduced to Web design theory by focusing on various concepts such as layout, typography, color theory, and usability. This course places a heavy emphasis on individual page design and layout. Current mobile Web design trends will also be explored. The students will have the opportunity to develop and publish a Web site from initial concept to publication.

DIG 2109 Digital Imaging Fundamentals (3.00 Credits)
No Requisites Required
This course is a foundation course in computer-aided graphics. This course addresses techniques, applications, formats and concepts necessary to build graphics to be used in digital media presentations. Software used by professional media developers to create images for digital media applications will be used in this class.

DIG 2115C Digital Imaging (3.00 Credits)
Pre- or Co-requisite PGY 2800C with a minimum grade of C or Permission of the Program
This is a computer-based course designed to develop the students' skills in digital image editing. Students will learn through the use of the computer how to create, edit and manipulate digital images from scanned photographs and artwork. Students will utilize retouching techniques to modify, enhance and reshape images, apply special effects, adjust color balance, do file management, and prepare their work for print output and electronic presentation.

DIG 2116 Advanced Digital Image Editing (3.00 Credits)
Prerequisite DIG 2109 with a minimum grade of C
This course explores advanced bitmapped image processing techniques. Students will learn how to prepare images for various output venues, including print, Web and multimedia publishing. Projects focus on resolution, color management, image and texture creation, and special effects. Software used by professional media developers to create images for digital media applications will be used in this class.

DIG 2117 Advanced Digital Image Rendering (3.00 Credits)
Prerequisite GRA 1206 with a minimum grade of C
This course explores advanced vector image processing techniques. Students will learn how to prepare images for various output venues, including print, Web and multimedia publishing. Students will learn through the use of the computer how to create, select, manipulate and arrange graphic objects used in advanced computer illustrations. Projects focus on design, color management, image and texture creation, and special effects. Software used by professional media developers to create images for digital media applications will be used in this class.

DIG 2131 Digital Art and Design (2.00 Credits)
No Requisites Required
Working within a digital format, students explore design principles and develop techniques unique to computer graphics applications. Students will become familiar with the creative process and establish an appreciation for design aesthetic as it applies in a digital medium.

DIG 2132 Capstone: Electronic Media Design (3.00 Credits)
Prerequisite GRA 1206 with a minimum grade of C and Prerequisite DIG 2109 with a minimum grade of C and Prerequisite DIG 2117 with a minimum grade of C

This capstone course expands students' understanding and application of graphic problem-solving. Through the use of graphic software applications, the student will develop the essential correlation of form and content as it relates to the visualization of creative design solutions. Students will build upon skills learned in prerequisite courses and will select and apply various techniques appropriate for dynamic image creation. Students will research and analyze clients' needs and goals, and apply the design process to develop successful communication solutions. Students will devise and produce digital graphic creations that emphasize the effective use of layout, design, typography, and digital graphic techniques to solve specific communication challenges unique to the digital design industry.

DIG 2183 Digital Drawing (3.00 Credits)
Prerequisite DIG 2109 with a minimum grade of C
Exploration of digital vector and raster based illustration and design. Students synthesize traditional drawing and illustration skills with digital tools. Includes study of digital imaging, drawing systems, color theory, and idea generation.

DIG 2200 Basic Video Camera (3.00 Credits)
Prerequisite DIG 2030 with a minimum grade of C
This is a video production course designed to introduce the concepts of basic videography. Students will be exposed to different types of pro-sumer video cameras, composition styles, lighting techniques and safety concerns. Students will have the opportunity to learn hands-on, how to operate digital and analog television cameras. They will learn to combine all of these aspects of production into shooting professional videotape for edited video presentations.

DIG 2205 Basic Video Editing (3.00 Credits)
Prerequisite DIG 2030 with a minimum grade of C or Prerequisite PGY 2800C with a minimum grade of C
This course introduces the student to the basic working concepts of the art of editing through the use of a non-linear video editing system. Topics to be covered include: capturing both digital and analog video, organizing a new project, storing video clips, explaining the browser, viewer, canvas and timeline. Students will experience hands on instruction in the use of the above elements, which will result in the ability to log and capture, edit with straight cuts and simple effects, and output the final product to tape. Students will also be exposed to some of the more advanced features of an editing program including special effects, composing, text and titling.

DIG 2251 Sound For Media (2.00 Credits)
Prerequisite computer competency met.
This course is designed to introduce tools for music and sound exploration in the areas of web, video, animation, and video games. Students will develop knowledge of basic digital audio concepts, audio processing principles, automated control of audio parameters concepts, plus digital audio production as relates specifically to the field of multimedia. All areas of course content will be applied to practical applications through project-oriented assignments.

DIG 2284 Capstone: Advanced Videography (3.00 Credits)
Prerequisite DIG 2200 with a minimum grade of C and Prerequisite DIG 2205 with a minimum grade of C

This capstone video production course requires students to write, produce, capture, edit, and deliver a completed production suitable for TV broadcast. Students operate different types of prosumer digital video cameras, prepare for shooting on location, and perform advanced editing techniques. Special emphasis will be given to visual storytelling and working with clients to meet fixed industry imposed deadlines.

DIG 2290 Studio Production & Direction (3.00 Credits)
Prerequisite DIG 2030 with a minimum grade of C
This course is an advanced studio television course expanding on the established general production skills acquired in DIG 2030. The course will introduce the student to theory, terminology, and operation of video production equipment in a television control room and studio environment, including broadcast studio cameras, digital studio production switcher, character generator console, digital audio mixer, videotape recorders, production microphones, studio lighting and lighting board operation, and basic engineering concepts of camera control units, time based correctors, and calibration through waveform and vectorscope monitors. Content includes real time camera movements and the process of producing and directing studio productions facilitated through team engagement. Special effects will be demonstrated including chroma-key, wipes and dissolves. The fundamentals of studio scripting, pre-production planning and set and lighting design for studio productions will be covered within a digital production environment.

DIG 2302 Introduction to 3D (3.00 Credits)
Prerequisite DIG 2109 with a minimum grade of C
This introductory course explores the basic concepts of 3D computer animation using industry standard software. The students will investigate the basic methods of modeling, shading, and texturing. Students will analyze and create light and shadows in a scene. The students will develop skills necessary to control the process of rendering and turning images into files that can be viewed. Students will understand the practice of making objects behave as if controlled by the real-world law of physics. Students will apply critical thinking and complete assignments that reinforce this important skill throughout the course.

DIG 2311 Motion Graphics I (3.00 Credits)
Prerequisite DIG 2131 with a minimum grade of C and Pre- or Co-requisite GRA 1206 with a minimum grade of C
This is a digital media course designed to introduce the essentials of Motion Graphics, multimedia animation, video, digital media and the web. Students will be exposed to the new upgrades and fundamentals of motion graphics and digital techniques that include text, images, audio, and animation. Students will identify production methods for compositing basic motion control for high-quality, two-dimensional animation. Students will learn how to manipulate text, produce simple animations, and incorporate audio. Students will develop the skills necessary in animation, and essential visual production technology. They will learn to combine and integrate with other programs and have the components to save and publish to the Web and create web sites.

DIG 2342C Motion Graphics II (3.00 Credits)
Prerequisite DIG 2311 with a minimum grade of C
This is a second level digital media course designed to expand beyond the essentials of Motion Graphics for multimedia animation, video, digital media and the web. Students will be exposed to the new upgrades and advances in motion graphics and digital techniques that include text, images, audio, and animation. Students will expand their knowledge of production methods, compositing basic and complex motion control for high-quality, two-dimensional animation. Students will learn how to manipulate text, produce complex animations, while incorporating sophisticated audio and video. Students will develop the skills necessary in advanced motion graphics, animation, and visual production technology. Students will learn second level skills needed to combine and integrate with other programs using enhanced web building skills. Student knowledge in the application of industry standards will be extended.

DIG 2364 3-D Animation for Game Development (3.00 Credits)
Prerequisite DIG 2430 with a minimum grade of C
This course explores three-dimensional (3-D) animation as it relates to game development. The students will develop skills necessary to create character animation and motion. This course includes an in-depth analysis of a variety of 3-D skills such as compositing, modeling, animating, texturing, lighting and rendering using industry standard software programs. In addition, the students will develop the problem solving skills necessary to become competent in the area of 3-D design as related to game development.

DIG 2410 Basic Scripting for Videos (3.00 Credits)
Prerequisite DIG 2030 with a minimum grade of C
This course introduces the student to the basic concepts of writing for visual media. Topics to be covered include understanding different visual presentations, the stages of script development, developing creative concepts, differences between fictional and non-fictional narratives, writing for multiple formats and writing for nonlinear programs for digital media.

DIG 2430 Storyboarding & Conceptualizing for Game Creation (3.00 Credits)
Prerequisite GRA 2160 with a minimum grade of C and Prerequisite DIG 2040 with a minimum grade of C
This course is an introductory overview of the foundation of game creation, storyboarding, conceptualizing, and the tools necessary in finalizing the development of a game. Specific areas include: game layout charts, storyboards, level layouts, environment illustrations, character designs, models sheets, and Graphical User Interface (GUI) designs. The course will introduce several 3-D programs to aid in the creation of 3-D concept art.

DIG 2500 Fundamentals of Interactive Design (3.00 Credits)
Prerequisite DIG 2100 with a minimum grade of C and Prerequisite DIG 2311 with a minimum grade of C
This course is a project-oriented introduction to concepts, methods, and technologies employed in Interactive Design for web and mobile. Subjects of study include interactive design concepts, design of the user interface/user experience (UI/UX), principles of human-computer interaction, design techniques, and the software used to create these interactive objects. Techniques for client-side scripting languages will also be covered.

DIG 2545 Media Planning (2.00 Credits)
Prerequisite DIG 2000 with a minimum grade of C or Prerequisite DIG 2091 with a minimum grade of C
This course introduces the student to various components of pre-production planning as it relates to producing Digital Media projects. The student will explore and develop assorted components and apply skills to determine knowledge by writing and creating rudimentary pre-production plans.

DIG 2580 Digital Media Portfolio (1.00 Credits)
Permission of the Program
This course is designed to develop students' strategies for exploring and creating a dynamic digital portfolio for the Internet, DVD, and CD-ROM. The student will explore current tactics and practices used to display their best works and showcase projects completed throughout the Digital Media program. Students will research sites, create a storyboard and prototype, analyze the audience, determine the mood, create a site, and upload to a server. Students will also explore and implement various current techniques for electronic self-promotion. This is a capstone course designed to be taken the last semester of study. (Note: This course was replaced with DIG 2940: Digital Arts Internship.)

DIG 2940 Digital Arts Internship (1.0-3.00 Credits)
Permission of the Program

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to his/her program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations. (Note: Course may be taken up to 3 times for a total of 3 credits.) To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

DIG 3110C Media Production Fundamentals (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and Prerequisite DIG 2109 with a minimum grade of C and (Prerequisite ART 1201C with a minimum grade of C or Prerequisite DIG 2131 with a minimum grade of C)

This production course explores a range of ideas and processes incorporated in multimedia projects. The class develops a combination of critical, technical and design skills. Taking inspiration from the disciplines of art, design, architecture, and film, the class encourages formal and conceptual experiments in digital media. Readings, class discussions and lectures provide historical and cultural context. Additionally, in-class demonstrations and exercises showcase the potential of graphics-based software. Class assignments introduce elements of image making, multi-page sequencing and interface design. The fundamentals of hardware and software configuration, digital file formats, and analog-to-digital conversion are covered. Hands-on experience with digital cameras is combined with graphics-software instruction. A range of creative experiments, including collage, abstraction, sampling, compositing, juxtaposition, and symbolism, are re-interpreted in a digital environment.

DIG 3119C Digital Illustration (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and (Prerequisite ART 1300C with a minimum grade of C or Prerequisite DIG 2183 with a minimum grade of C) and (Prerequisite DIG 2131 with a minimum grade of C or Prerequisite ART 1201C with a minimum grade of C)

This course is an exploration of digital vector and raster-based illustration and design. Students synthesize traditional drawing and painting skills with digital tools including the study of digital imaging, drawing systems, color theory, and idea generation.

DIG 3293C Media Production for Video (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and (Prerequisite DIG 2030 with a minimum grade of C or Prerequisite DIG 2000 with a minimum grade of C) and (Prerequisite DIG 2200 with a minimum grade of C or Prerequisite PGY 2800C with a minimum grade of C)

This is a project-based course that adds to the student's knowledge of multimedia production. There is an emphasis on video production and streaming, including studio production projects. Students will develop a portfolio of work demonstrating client-focused design choices, technical skill, and professional competency.

DIG 3702 Divergent Thinking for Interactive Design (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and Prerequisite DIG 2109 with a minimum grade of C and (Prerequisite ART 1201C with a minimum grade of C or Prerequisite DIG 2131 with a minimum grade of C)

This course introduces students to divergent thinking as a core creative strategy for generating multiple, innovative solutions in interactive and immersive design. It explores the intersection of human and machine intelligence, creative problem-solving, and physical computing emphasizing practices such as observation, inquiry, experimentation, and playful exploration. Students will expand their creative capacities to build digital experiences through hands-on prototyping, interactive media exercises, and structured critique. The course cultivates openness to emerging technologies and new modes of engagement while grounding experimentation in practical application. Technical emphasis includes the use of Arduino and other microcontrollers for sensor-based input, Vibe Coding for expressive digital output, and AI tools for rapid prototyping and iteration. By the end of the course, students will be able to generate ideas broadly, challenge assumptions, and develop innovative solutions to complex design problems at the intersection of virtual and physical worlds.

DIG 3823C Creative Digital Media Problem Solving (4.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and Prerequisite DIG 2109 with a minimum grade of C and (Prerequisite ART 1201C with a minimum grade of C or Prerequisite DIG 2131 with a minimum grade of C)

In this course, students explore practical tools to aid in the creative process. Students will develop a deep understanding of design methodologies and processes pertaining to the execution of digital media solutions. Students work collaboratively to develop, iterate, and deliver effective design solutions using a range of digital media, including but not limited to video production, graphic design, UI/UX, and animation while analyzing the intersection and application of various forms of media.

DIG 4138C Digital Imagery (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and (Prerequisite DIG 3702 with a minimum grade of C or Prerequisite GRA 4139C with a minimum grade of C) and (Prerequisite DIG 2183 with a minimum grade of C or Prerequisite ART 1300C with a minimum grade of C) and (Prerequisite ART 1201C with a minimum grade of C or Prerequisite DIG 2131 with a minimum grade of C)

In this course, students will learn how to develop objects in the real world, transpose them to a virtual environment, and output 3D content back to a physical form. Students will learn contemporary tools from 3D scanning techniques, digital sculpting software, 3D printing, and digital display to develop a broad skill-set in the digital media production field.

DIG 4451C Visual Storytelling & Development (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and Prerequisite DIG 3293C with a minimum grade of C and (Prerequisite ART 1300C with a minimum grade of C or Prerequisite DIG 2183 with a minimum grade of C)

This course reinforces the principles of visual storytelling and visual development by focusing on the creative process behind implementing narrative ideas. It also covers techniques and mechanics of visual development with an emphasis on strong visual designs that communicate effectively. Students will produce multiple hands-on assignments that apply the concepts of visual storytelling for both static and motion applications.

DIG 4521 Project Methodologies (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and Prerequisite GRA 3816C with a minimum grade of C

This course introduces skills for planning and managing digital projects, with a focus on the production of digital media, including design, video and time-based media. Students will learn about the management life cycle and project parameters, along with effective project management tools and methodologies, interpersonal skills, and the role of a project manager.

DIG 4595C Portfolio Development (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and Prerequisite GRA 4138C with a minimum grade of C

This course provides professional preparation in the disciplines of design, video and time-based media, including career preparation and development, marketing skills, portfolio production and presentation development.

DIG 4943 Digital Media Internship (2.0-3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and Pre- or Co-requisite DIG 4595C with a minimum grade of C

This course is designed to provide students with the opportunity to apply classroom theory to practical, work-related applications. Seminars may be a component of this course and regular contact with the assigned faculty advisor is required. Students may earn internship credits based on the completion of the required work experience and satisfactory completion of assignments including, but not limited to, seminars and a project.

## DSC-Domestic Security

DSC 1002 Domestic & International Terrorism (3.00 Credits)
No Requisites Required
This course introduces participants to various aspects of domestic and international terrorist organizations. The student will be introduced to basic principles of terrorist investigations, domestic security threats, and the motivational factors and tactics that drive these organizations. The student will learn techniques for evaluating their own organizations vulnerability against attacks that involve chemical, biological, hazmat, radioactive, or sabotage. Students will learn the roles and responsibilities of state, local and federal agencies in terrorism investigations and responses. The course introduces participants to various aspects of domestic and international terrorist organizations.

DSC 1004 Introduction to the NRF and NIMS (3.00 Credits)
No Requisites Required
This course introduces participants to the National Response Framework (NRF), specifies how the resources of the Federal Government will work in concert with state, local, and tribal governments and the private sector to respond to Incidents of National Significance. The NRF is predicated on the National Incident Management System (NIMS). This course will show how the NRF and the NIMS provide a nationwide template for working together to prevent or respond to threats and incidents regardless of cause, size, or complexity.

DSC 1033 Weapons of Mass Destruction (3.00 Credits)
No Requisites Required
This course introduces participants to various types of weapons of mass destruction. The student will be introduced to basic principles of weapons of mass destruction recognition, identification, decontamination, and treatment protocols. The student will understand the importance of personal protective equipment and its proper uses and understand the toxicology, physical, and chemical properties associated with weapons of mass destruction.

DSC 1222 Psychological Management of Weapons Of Mass Destruction Victims (3.00 Credits)
No Requisites Required
This course introduces participants to a general overview of terrorism and the potential psychological effect of terrorist events on victims. It will also provide emergency responders with appropriate skills to use at the terrorist scenes to mitigate the psychological impact on the victims. The course will address the effects of terrorist events on the emergency responders themselves and offer specific techniques that the responders can use in responding to victims and other responders.

DSC 1552 Critical Infrastructure Protection (3.00 Credits)
Admission to Public Safety (Associate in Science) (CJPSS-AS) or Admission to Homeland Security and Emergency Management (Associate in Science) (EAM-AS) or Admission to Homeland Security (Certificate with Financial Aid Eligibility) (HLS-CT) or Admission to Emergency Administration and Management (Certificate with Financial Aid Eligibility) (EAM-CT)
This course introduces participants to the Critical Infrastructure Protection (CIP) process that is used to protect the people, physical entities, and cyber systems that are critical to many facilities. This course will guide students in the systematic protection of critical infrastructures. In addition, the course will introduce decision sequences that assist current and future leaders in determining the degree and type of protection necessary for various facilities. The course will introduce a time-efficient and resource-restrained practice that ensures the protection of only those infrastructures upon which survivability, continuity of operations, and mission success depend.

DSC 1562 Homeland Security Threat Strategy (3.00 Credits)
No Requisites Required
This course deals with the problem of terrorism from a criminal justice perspective. It is designed to provide students with an understanding of the major issues associated with responding to terrorism in a democratic society. The course focuses on the threat of Terrorism to the United States. The course will review specific strategies used to deter terrorist threats to the United States. The course will also assess the relative effectiveness of anti terrorist activities.

DSC 1631 Terrorism Response Planning (3.00 Credits)
No Requisites Required
This course introduces participants to various aspects of planning for potential terrorist activity. The student will be introduced to basic principles of emergency management, communications, security threats, and the effects these operations may have on personnel. The student will learn techniques for evaluating various operations for vulnerabilities to terrorist attacks. Students will gain knowledge of the roles and responsibilities of local agencies, federal agencies, and private seaport and maritime businesses during terrorism planning and response.

DSC 1751 Homeland Security Policy & Law (3.00 Credits)
No Requisites Required
This course introduces participants to the major debates about balancing democratic freedoms with security - from the Patriot Act to Supreme Court decisions on detention powers. The course provides insight into legal strategies necessary to confront ongoing national security threats. The course examines laws designed to preserve both our security and our democratic way of life.

## EAP-English Non-Native Speakers (college-level)

EAP 0200 Basic Listening/Speaking (0.00 Credits)
No Requisites Required
This course is offered to students with an appropriate score on the standardized placement test for ESL. The course develops the students' ability to comprehend spoken English at a normal rate of speech and to express themselves accurately in a variety of situations. Emphasis is on listening for content, intonation, and rhythm patterns, imitating native speakers of English, and choosing appropriate expressions to handle everyday social encounters. (Note: Credit received for EAP 0200 cannot be used toward graduation.)

EAP 0295 Basic English as a Second Language I (0.00 Credits)
No Requisites Required
This course is offered to students with an appropriate score on the standardized placement test for ESL. This course is for non-native speakers of English and is the first of the five ESL courses in written English. It is designed to develop skills in vocabulary, reading, grammar, and writing. In this course, students develop writing skills in the context of guided discourse on personal topics with an emphasis on logical thought and mechanics, and they learn to control basic grammatical structures and statement/question patterns. They also develop the ability to comprehend written text appropriate to this level with emphasis on developing reading skills and vocabulary. A variety of American and cross-cultural topics is discussed. (NOTE: Credit for EAP 0295 cannot be used toward graduation.)

EAP 0300 Intermediate Listening/Speaking I (0.00 Credits)
Prerequisite EAP 0200 or Prerequisite an appropriate score on the standardized placement test for ESL
In this course students will further develop the ability to comprehend spoken English and to express themselves more accurately and fluently on a variety of social and academic topics. They develop speaking and listening skills necessary for participating in classroom discussions with an emphasis on clarification through rewording and asking questions. Emphasis is on active listening for discrete points and main ideas and summarizing. (Note: Credit received for EAP 0300 cannot be used toward graduation.)

EAP 0395 Basic English as a Second Language II (0.00 Credits)
Prerequisite EAP 0295 or Prerequisite an appropriate score on the standardized placement test for ESL
This college preparatory course for non-native speakers of English is the second of the five ESL courses in written English. It is designed to develop skills in vocabulary, reading, grammar, and writing. A variety of American and cross-cultural topics is discussed. (Note: Credit for EAP 0395 cannot be used toward graduation.)

EAP 0400 Intermediate Listening/Speaking II (0.00 Credits)
Prerequisite EAP 0300 or Prerequisite an appropriate score on the standardized placement test for ESL
In this course students will continue to develop speaking and listening skills necessary for participation in classroom discussions, oral presentations, and an introduction to critical listening skills. Emphasis is on active listening for discrete points and main ideas, note taking, summarizing, and giving prepared and extemporaneous speeches. 62 contact hours. (Note: Credit received for EAP 0400 cannot be used toward graduation.)

EAP 0495 Intermediate Academic English as a Second Language (0.00 Credits)
Prerequisite EAP 0395 with a minimum grade of C or Prerequisite an appropriate score on the standardized EAP placement test
The third of five ESL courses, this college preparatory course is designed to enhance basic skills in reading, writing, structure, and vocabulary building. Students develop the ability to write more sophisticated structured academic paragraphs in various rhetorical modes and execute other academic writing tasks. They continue to develop academic reading abilities, including texts on contemporary and literary topics with an emphasis on extensive reading and the enhancement of critical reading skills. They also develop the ability to use intermediate-level grammatical structures appropriate to classroom discussion, oral presentation and the writing of more sophisticated academic paragraphs with an emphasis on increased accuracy. Group interaction, critical thinking skills, and appreciation of cultural differences in learning approaches are incorporated in instructional techniques. (NOTE: Credit for EAP 0495 cannot be used toward graduation.)

EAP 1500 Advanced Listening/Speaking (3.00 Credits)
Prerequisite EAP 0400 or Prerequisite an appropriate score on the standardized placement test for ESL
Students enhance their aural comprehension skills in both academic and social settings by listening to taped lectures and news broadcasts, radio and television shows, and guest speakers. They develop communication, organization and pronunciation skills necessary for effective academic presentation and discussion with an introduction to lecture note taking. Emphasis is also placed on accent reduction as students focus on sound discrimination and oral production of English. Oral communication skills are further developed as students practice interviewing, summarizing, and giving presentations and take part in group problem-solving activities. (Note: A total of 12 credits from EAP 1695 and EAP 1500 can be used for graduation credit.)

EAP 1501 English Pronunciation (0.00 Credits)
Prerequisite EAP 0400 or Prerequisite an appropriate score on the standardized placement test for ESL or by permission of the program director.
This course is designed to improve students' pronunciation of American English, including stress, rhythm, and intonation. Students analyze the phonetic structure of vowel and consonant sounds and practice correctly pronouncing sounds and patterns in context. (Note: This course does not count toward graduation credit.)

EAP 1595 Advanced English as a Second Language I (0.00 Credits)
Prerequisite EAP 0495 or Prerequisite an appropriate score on the standardized placement test for ESL
The fourth of five ESL courses, this college preparatory course is designed to enhance advanced skills in reading, writing, structure, and vocabulary building. Students develop the ability to write structured academic essays with an emphasis on accuracy and cohesiveness and execute other academic writing tasks. They develop the ability to comprehend lengthier texts on diverse academic topics by applying appropriate reading strategies, and they develop the ability to use complex grammatical structures appropriate to effective academic discourse, including discussions and essays. Group interaction, critical thinking skills, and appreciation of cultural differences in learning approaches are incorporated in instructional techniques. (Note: Credit for EAP 1595 cannot be used toward graduation.)

EAP 1685 Advanced ESL III: Integrated Skills (3.00 Credits)
Prerequisite EAP 1595 with a minimum grade of C or (Prerequisite Appropriate score on SPC Placement Test and Pre- or Co-requisite ENC 1101 with a minimum grade of C)
This advanced English as a Second Language integrated skills course is designed for students to increase and refine academic reading, writing, grammar, and information literacy skills while simultaneously enrolled in ENC1101, Composition 1. Students will refine grammar, sentence structure and research, reading and writing strategies in a variety of rhetorical structures and college content areas. Aural comprehension and oral production are likewise enhanced for effective note-taking, discussions and presentations. Group interaction, critical thinking skills, use of online resources and appreciation of cultural differences in learning approaches are incorporated in instructional techniques. (Note: Credit is only given for EAP 1685 or EAP 1695.)

EAP 1695 Advanced English as a Second Language II (9.00 Credits)
Prerequisite EAP 1595 or an appropriate score on the standardized placement test for ESL.
As the last course in English as a Second Language, this component is designed to increase and refine skills in reading speed, comprehension and retention; in writing organization, fluency, clarity and style; and in understanding and applying advanced grammatical concepts to enhance both comprehension and expression in English. Group interaction, critical thinking skills and appreciation of cultural differences in learning approaches are incorporated in instructional techniques. (Note: A total of 12 credits from EAP 1695 and EAP 1500 can be used for graduation credit. Credit is only given for EAP 1685 or EAP 1686 or EAP 1695.)

## ECO-Economics

ECO 2000 Introduction to Economics (3.00 Credits)
(Prerequisite ENC 0025 or Prerequisite ENC 0056) and ((Prerequisite REA 0017 or Prerequisite REA 0056) or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test.)
This course is designed to provide students with a general knowledge of the structure and function of economic systems with major emphasis on the American economy and its current economic problems. (Note: This course partially satisfies the writing requirements outlined in the General Education Requirements.) Testing

ECO 2013 Principles of Macroeconomics (3.00 Credits)
No Requisites Required

In this course, students will learn the foundations of macroeconomics as the branch of economics concerned with how decision-making, in an environment of scarcity, maps onto the aggregate economy. Students will examine theories and evidence related to the following core set of topics: national income determination, money, monetary and fiscal policy, macroeconomic conditions, international trade and the balance of payments, and economic growth and development. ***State Core Course Description (State Rule 6A-14.0303)***. This course partially satisfies the writing requirements outlined in the General Education Requirements. **This course satisfies the Social and Behavioral Sciences General Education Core.** (Note: Credit is only given for ECO 2013 or ECO 2013H.) Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

ECO 2013H Honors Macroeconomics (3.00 Credits)
Prerequisite Appropriate score on the college placement test or Acceptance into the Honors College or Permission of the Program

In this course, students will learn the foundations of macroeconomics as the branch of economics concerned with how decision-making, in an environment of scarcity, maps onto the aggregate economy. Students will examine theories and evidence related to the following core set of topics: national income determination, money, monetary and fiscal policy, macroeconomic conditions, international trade and the balance of payments, and economic growth and development. ***State Core Course Description (State Rule 6A-14.0303).*** This course partially satisfies the writing requirements outlined in the General Education Requirements. **This course satisfies the Social and Behavioral Sciences General Education Core.** (Note: Credit is only given for ECO 2013 or ECO 2013H.)

ECO 2023 Principles of Microeconomics (3.00 Credits)
(Prerequisite ECO 2013 or Prerequisite ECO 2013H) or Permission of the Program

Students explore the theory of the business firm, as well as comprehend consumer demand and behavior in the market economy. Students will have an opportunity to examine the theory of demand, supply, equilibrium, price, and output determination under the four main market structures – perfect competition, monopolistic competition, monopoly, and oligopoly – in the market economy. This course partially satisfies the writing requirements outlined in the General Education Requirements. (Note: Credit is only given for either ECO 2023 or ECO 2023H, but not both.

## ECT-Education: Career/Technical

ECT 4004 History & Principles of Career and Technical Education (3.00 Credits)
Permission of the Program
This course is an overview of current policies and principles in career and technical education including the historical, sociological, and philosophical bases. Topics include the impact of legislation, role of career and technical education in promoting democratic ideals, administrative structures at the national, state and district level, role of advisory committees, professional educator and student organizations, and critical issues affecting career and technical education. (Note: This is one of the four courses required to complete the professional preparation requirements for newly employed career and technical education instructors.)

ECT 4183 Curriculum Construction: Technical Education (3.00 Credits)
Permission of the Program
This course is designed to assist new Career and Technical (CTE) teachers on temporary certification, to develop or expand their skills in constructing a comprehensive curriculum for career and technical classrooms and laboratories. It will focus on translating the CTE instructor's occupational knowledge and experience with the academic goals and objectives of their program into a coherent series of efficient and effective learning experiences for students. Selected course topics include evaluation of curriculum resources, development of self-instructional learning materials, service learning projects, teacher with-it-ness and program culminating projects.

ECT 4365 Basic Teaching Methods: Career and Technical Education (3.00 Credits)
Permission of the Program
This course is designed to assist in-service career and technical teachers, on temporary teacher certification, to develop or expand their skill in planning and delivering effective instruction in the career and technical classroom and laboratory. The course focuses on the selection of teaching methods for specific instructional settings including principles of learning, instructional strategies, teacher collaboration, instructional media, classroom management and assessment. Access to the Internet and familiarity with email procedures are necessary.

ECT 4562 Career and Technical Education for Students with Special Needs. (3.00 Credits)
Permission of the Program
This course provides an overview of the rationale, legal and social foundations, and characteristics of education for students with special needs. It focuses on modifying the career and technical education curriculum, laboratory, shop, student outcomes, learning activities, tests, media, etc. to accommodate the unique learning needs of non-traditional, English as a Second Language and special needs students. Access to the Internet and familiarity with email procedures is required. (Note:This course is one of four courses required to complete the professional preparation requirements for employed Career and Technical Education instructors.)

## EDE-Education: Elementary

EDE 4226 Integrated English Language Arts, Social Studies and Creative Arts for the Elementary Classroom (3.0-4.00 Credits)
(Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS)) and Prerequisite RED 3309 and Prerequisite EDE 4304 and Prerequisite EDE 4943 and (Prerequisite EDG 3620for Elementary Education majors or Prerequisite EEX 3241for Exceptional Education majors) and Pre- or Co-requisite EDE 4942 and Successful completion of all sections of the Professional Education Exam

This course prepares teacher candidates to integrate English language arts, social studies, and the creative arts into instruction for the elementary classroom. The course addresses effective instructional methods for teaching English language arts, social studies, and the creative arts independently and in an integrated manner, using the Florida state-adopted standards.

EDE 4304 Integrated Mathematics and Science (4.00 Credits)
Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) and Prerequisite EDG 3620 with a minimum grade of C and Pre- or Co-requisite EDE 4943 with a minimum grade of C and Successful completion of all sections of the General Knowledge Exam.

This course is designed to help the student gain knowledge and competencies necessary to become an effective teacher and leader in the areas of elementary school mathematics and science. It develops the theoretical bases for mathematics and science learning and teaching, illustrates and applies models for integrating elementary mathematics and science teaching, and provides practical experience in curriculum, instruction and assessment. This course addresses specific state standards, subject matter competencies, and pedagogy that are pertinent to the disciplines and required for certification.

EDE 4940 Internship: Elementary Education (9.0-12.00 Credits)
Prerequisite Successful completion of all Elementary Education BS program requirements and passing of all sections of the General Knowledge and Professional Education Exam.
This course requires a teacher candidate to demonstrate competency on the Florida Educator Accomplished Practices (FEAPs) at the pre-professional level during one semester of full time internship in a K-6 school setting as approved by the College of Education. Teacher candidates must assume full-day teaching duties for a minimum of six weeks during the fifteen week internship. The internship also includes mandatory on-campus seminars. Contact hours: a minimum of 35 hours per week for 15 weeks.

EDE 4942 Integrated English Language Arts, Social Studies and Creative Arts for the Elementary Classroom Practicum (1.00 Credits)
(Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS)) and Prerequisite RED 3309 and Prerequisite EDE 4304 and Prerequisite EDE 4943 and Pre- or Co-requisite EDE 4226 and Successful completion of all sections of the Professional Education Exam.

This course is designed to give practical experience to students through school-based experiences in an approved classroom setting. Students work directly with classroom teachers and have an opportunity to teach both large and small group activities, particularly children's literature, language arts and social studies. This course is designed to develop competencies relative to program planning instruction, daily schedule, record keeping, evaluation, classroom management, reporting to parents, professional organizations, and teacher ethics. Students spend a minimum of sixty (60) school-based hours in an Office of School Partnerships approved classroom setting.

EDE 4943 Integrated Mathematics and Science Practicum (1.00 Credits)
((Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) and Prerequisite EDG 3620 with a minimum grade of C) or (Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) and Prerequisite EEX 3012 with a minimum grade of C and Prerequisite EEX 3241 with a minimum grade of C) ) and Pre- or Co-requisite EDE 4304 with a minimum grade of C and Successful completion of all sections of the General Knowledge Exam.

This course is designed to give practical experience to students through school-based experiences in public school classrooms. Students work directly with elementary classroom teachers and have an opportunity to teach both large and small group activities, particularly Math and Science. This course is designed to develop competencies relative to program planning, instruction, daily scheduling, record keeping, evaluation, and classroom management, reporting to parents, professional organizations, and teacher ethics. Students spend a minimum of sixty (60) school-based hours (SBH) in the elementary classroom.

## EDF-Education: Foundations and Policy Studies

EDF 1005 Introduction to Education (3.00 Credits)
No Requisites Required

This course provides an overview of Florida's educator certification pathways and career options in education in accordance with Florida Statutes. Topics include: key educational philosophies; professional ethics; legal responsibilities, including mandatory reporting for child abuse and neglect; the Florida Educator Accomplished Practices (FEAP); key instructional practices associated with effective teaching of students with exceptionalities; Florida's state academic standards; and historical, legal and financial foundations of the Florida education systems. Students will explore effective teaching strategies in classroom management, educational technology and the foundations of all student learning needs. Includes a minimum of 15 hours of required clinical experience in a variety of school settings. ***State Course Description (Rule 6A-5.066, F.A.C.)*** (Note: A student who has a criminal background precluding him or her from observing in a classroom will not be able to complete the field experience and will not receive credit for this course).

EDF 2130 Child and Adolescent Development (3.00 Credits)
No Requisites Required
The course examines child growth and development focusing on the physical, social, emotional, and cognitive domains of development. Factors that influence growth and development are considered.

EDF 3150 Learning Theory and Student Development (1.00 Credits)
Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS)
This course examines major learning theorists and their contributions. Course content explores issues related to social, emotional and cognitive development with an emphasis on implications for instruction based on the diverse needs of students.

EDF 3152 Nature of the Learner (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)

This course explores the fundamental principles of human learning and development across the lifespan. Students will examine cognitive processes, physical growth, and individual differences that influence how learners acquire knowledge and skills. Emphasis is placed on understanding developmental stages, learning theories, and factors that impact motivation and academic performance.

EDF 3214 Student Development and Learning Principles K-12 (2.0-3.00 Credits)
Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS) or Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)

This course is designed to address principles of learning and student development and their applications to learning/teaching situations. Topics include self-concept, motivation, views of intelligence, and assessment. Students will analyze teaching and learning scenarios in order to develop a repertoire of teaching approaches. This course emphasizes the interaction between the role of the teacher and the needs of students at various developmental ages and stages.

EDF 3660 Education and Public Policy in the United States (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS)

This course is designed to study the relationship between education and public policy at the federal, state, and local levels of government. Emphasis is placed on the social, political, and economic factors that affect the development of educational public policy.

EDF 3931 Florida Teacher Certification Exam Preparation (1.00 Credits)
Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS) or Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT)

The Florida Teacher Certification Examination (FTCE) Seminar is a 1 credit hour seminar designed to address Florida teaching skills, knowledge base and competencies aligned with the Florida Educator Accomplished Practices (FEAPS). The focus of the seminar will be individualized based on those skill areas that are in need of additional support and preparation. This course will assist students in their preparation to successfully pass the required exams.

EDF 4084 Cultural & Social Foundations of Education (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)

In this course, social and cultural forces affecting educational practices are examined in the context of major theories of the sociology of education, concepts of multicultural education, and theories of leadership. Relations among educational policy, multicultural curriculum development, academic and personal growth and achievement, and diverse lifestyles and learning styles are explored.

EDF 4123 Design & Implementation of Youth Programs (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)
This course prepares individuals to plan, manage, and implement programs for children, youths, and families. Topics include creating a youth program, designing curriculum and activities for youths, creating policies and procedures to maintain the program, and developing tools to evaluate the program's effectiveness.

EDF 4264 Learning Theory and Instruction (3.00 Credits)
Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT)

This course is designed to cover principles of learning and student development and their applications to learning/teaching situations. Self-concept, motivation, views of intelligence, and assessment are examined with opportunities to analyze teaching/learning episodes and to develop a repertoire of teaching approaches. Emphasis is placed on the interaction between the role of the teacher and the needs and learning styles of students at various developmental ages and stages. Teacher candidates create coherent, meaningful learning experiences using the major philosophical foundations of education to develop learners' competence in subject matter knowledge. Teacher candidates evaluate the suitability of the content against learner characteristics.

EDF 4430 Measurement, Evaluation and Assessment in Education K-12 (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT) or Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)
Advanced principles of measurement, evaluation and assessment are covered in this course. Course content includes instruction in designing, implementing, and evaluating a variety of assessments. Proper assessment modifications and accommodations will be examined. The course includes analysis and interpretation of assessment data and instruction on how to use data to meet the needs of students.

EDF 4444 Assessment in the Curriculum (2.00 Credits)
Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT)
This course is designed to develop the necessary skills required by teachers to develop a variety of assessments that will help identify gaps in student learning and measure student learning gains. The course will instruct teacher candidates how to design, select, implement, and interpret assessments for P-12 classrooms. Teacher candidates will learn how to analyze P-12 student assessment data and then communicate the results with parents and caregivers. The use of technology to organize and integrate assessment data will also be addressed.

EDF 4604 Education in America (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)
The course will examine the role of education in American culture. This course is designed to provide students with the general knowledge, skills, and principles necessary to understand the events, opportunities, and challenges they will confront as education professionals. Students will receive instruction on proper conflict resolution, effective interpersonal and intrapersonal communication, and appropriate soft skills (people, social, communication, character traits, attitudes, career attributes, social and emotional intelligence) necessary to successfully navigate a variety of academic and professional environments.

EDF 4632 Sociology of Education (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)

This course provides a sociological approach to education, from several theoretical perspectives and their application to current educational issues, to the structure and processes that make education systems work. This course focuses on the role of school in society and how school relates to other systems within the macro system.

EDF 4650 Health, Safety, & Ethics in Youth & Family Settings (2.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)
This course covers the laws, regulations, standards, policies, and procedures related to health, safety, nutrition, and ethics. Topics include illness and accident prevention, emergencies, basic nutritional needs of youths, child obesity, child abuse/neglect prevention, proper ethics in youth settings, and proper collaboration with families and health professionals.

EDF 4731 Youth Administration & Leadership Communication Techniques (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)
This course will focus on specific effective professional communication efforts of administrators and leaders from military, social agencies, educational settings, and organizational environments, including non-profit agencies and organizations. Skills emphasized in the course include: oral and written presentations for varied audiences and technology-rich communications for leading organizations and developing communicative organizational environments.

EDF 4754 Theoretical & Practical Issues in Education (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)
This course examines theoretical and practical issues in education related to theories of learning, development and cognition, instruction, and youth, family, and community relations. Students will have opportunities to consider the implications of these issues for instructional practices in the field. Students in this course will examine complex experiences and conditions in global, national, and local contexts by integrating course content with field-based curricula and research.

EDF 4810 Comparative and International Education (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)

This course will examine and compare educational systems in their national contexts around the world. Emphasis will be placed on a blend of historical, philosophical, and political perspectives on a variety of foundational topics in international education.

EDF 4930 EPI Capstone Seminar (3.00 Credits)
(Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT) or Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT)) and Prerequisite EDF 4944 with a minimum grade of C and Pre- or Co-requisite EDF 4949 with a minimum grade of C

This is a course for Educator Preparation Institute (EPI) students (teacher candidates) in their final semester. Teacher candidates will complete this course in conjunction with the internship course (EDF 4949) and will be required to demonstrate competency in two of the six Florida Educator Accomplished Practices (FEAPs). This course will focus on the following areas: professional development, ethical conduct, and subject area knowledge.

EDF 4944 EPI Practicum (2.00 Credits)
Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT)

This course is designed to give practical experience in public school classrooms to teacher candidates. Candidates work directly with classroom teachers in the field where they wish to become certified. Through a coaching model, the candidates will develop competencies relating to instruction, evaluation, classroom management, professional behaviors, and teacher ethics. Students spend a minimum of sixty (60) school-based hours (SBH) in the classroom in the area of certification.

EDF 4949 EPI Internship (4.00 Credits)
Successful completion of all EPI-CT or EPIR-CT program requirements and Pass all sections of the General Knowledge and Professional Education Exam and Pre- or Co-requisite EDF 4930 with a minimum grade of C

This course requires a teacher candidate to demonstrate competency on four Florida Educator Accomplished Practices (FEAPs) during ten weeks of full-day internship in a prekindergarten through twelfth grade (P-12) setting.

## EDG-Education: General

EDG 3410 Classroom Management and Communication K-12 (3.00 Credits)
Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)
This course covers basic skills and knowledge for creating a learning environment that encourages positive social interaction and effective communication among members of the learning community. The course emphasizes attitudes, language patterns, values, and behaviors for eliciting and maintaining student learning as well as on-task behaviors. (Note: This course also includes methods and strategies for consulting with other school professionals and parents and includes 15 school-based hours.)

EDG 3620 Curriculum and Instruction for Students in General and Exceptional Student Education (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT) or Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS)

This course provides teacher candidates with a foundational understanding of curriculum development and instructional strategies for both general and exceptional education settings. The course equips future educators to design well-structured, meaningful learning experiences that reflect a deep understanding of subject matter and the varied needs of all learners, including English Speakers of Other Langauges (ESOL) and Exceptional Student Education (ESE). Students will examine major philosophical foundations of education and apply them to create developmentally appropriate instructional plans that consider the individualized characteristics of each learner.

EDG 3661 Adult Learning Theory & Curriculum Development (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Training and Development (Advanced Technical Certificate with Financial Aid Eligibility) (TRNDEV-ATC)

This course examines the history of adult learning along with the distinct qualities of adult learners and their unique needs that impact the design and development of education and training programs. Students will explore adult learning theories and the role of motivation, relevance, and autonomy in adult learning.

EDG 4419 Building Classroom Management and Discipline (3.00 Credits)
Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT)

This course focuses on principles and strategies for developing and maintaining an effective classroom environment for all learners. Strategies for whole class management as well as management of challenging behaviors will be explored. This course includes Positive Behavior Supports, Response to Intervention and Functional Behavior Analysis as fundamental components of effective classroom management. Participants will design a classroom management plan as well as conduct a functional behavior analysis.

EDG 4940 EDST Internship (5.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)
As a culminating experience to their Educational Studies program, students will complete an Internship in a community-based organization. Educational Studies is a workforce development program that prepares students to work as leaders in youth and community development, non-profits, and other educational and business settings. The internship will provide students with field experience in the workforce. 240 contact hours.

## EEC-Education: Early Childhood

EEC 1223 Observation and Assessment in Early Childhood (3.00 Credits)
No Requisites Required
This course is a study of the theory and practice of observation and assessment of young children. Emphasis is on the use of various types of informal measurements along with the appropriate use of standardized assessments. Issues of professionalism including confidentiality, absence of bias, and ethical behaviors are addressed. (Note: Ten (10) hours of field experience in a licensed, professional early childhood care and education setting required.)

EEC 1308 Early Childhood Planning and Management (3.00 Credits)
No Requisites Required
This course is designed to give students practice in lesson planning, scheduling, and evaluating the activities of young children in early childhood care and education settings. (Note: This course requires five (5) field experience hours in early childhood care and education settings.)

EEC 1512 Caring for Infants and Toddlers (3.00 Credits)
No Requisites Required
This course is the study of the developmental needs of infants and toddlers ages birth to three. Emphasis is on developing appropriate environments, curriculum and policies that support young children and their families. (Note: Five (5) hours of field experience in a licensed, professional early childhood care and education setting required.)

EEC 1600 Guiding the Young Child (3.00 Credits)
No Requisites Required
This course is designed for early childhood educators who care for and work with young children. It examines the range of developmentally appropriate behaviors, the application of consistent limits, the use of supportive communication patterns and styles, and simple rules that clearly define behavioral approaches employed to guide young children in a variety of settings. (Note: Ten (10) hours of field experience in a licensed, professional early childhood care and education setting required.)

EEC 1603 Early Childhood Development (3.00 Credits)
No Requisites Required

This course introduces the study of developmental processes in the young child from conception to age eight, with an emphasis on understanding the sequential dynamics of growth, development, behavior, and understanding the uniqueness of each child. Students will have an opportunity to observe and evaluate a young child and produce a comprehensive case study to understand the learning processes occurring in multiple contexts in early learning settings. **A Case Study of a child between the ages of 18 and 60 months is required.**

EEC 2002 Foundations of Chld Care and Educational Administration (3.00 Credits)
No Requisites Required

This course provides a realistic outline for new early childhood program administrators. Emphasis is on the leadership role of a program administrator in creating and sustaining an effective organizational structure, effective personnel policies and procedures, and systems for staff recruitment, development, management, and evaluation. Students have the opportunity to create a program guide including a philosophy statement, goals, and a hiring and training plan. Successful students may use this course to meet the Florida Department of Children and Families educational requirement for the "Overview in Child Care" course for the Director Credential, Level I and Level II.

EEC 2271 Introduction to Working with Young Children with Special Needs (3.00 Credits)
No Requisites Required
This course introduces the student to the study of young children, birth through five years of age, with special needs, within the context of their family unit. The content includes the study of possible causes of developmental delays, disabilities or established conditions; a historical overview of federal laws; understanding biases and attitudes toward children with disabilities and the recognition of the importance of early identification during critical periods of development. (Note: Five (5) hours of field experience in a licensed, professional early childhood care and education setting required.)

EEC 2300 Developing Cognitive Activities for Young Children(Math, Lnge Arts, Science, Social Studies, Health) (3.00 Credits)
No Requisites Required

This course focuses on developing appropriate cognitive teaching and learning strategies for children from infancy to age four. The student will examine methodological principles from the following curricula areas: mathematics, language arts, science, social studies, and health. (Note: This course requires 10 field experience hours in early childhood care and education settings.)

EEC 2312 Developing Creative Activities for Young Children (3.00 Credits)
No Requisites Required

This course focuses on developing appropriate creative teaching and learning strategies for children from infancy to age eight. Assignments engage students to purposefully plan lessons for young children to have active, meaningful play experiences. Students will have the opportunity to explore how creative arts and play influence the young child's development. **(Note: This course requires 10 field experience hours in early childhood care and education settings.)**

EEC 2907 Early Childhood Education Internship (3.00 Credits)
Prerequisite This course must be taken during the student's last term in the program after completion of required courses. and Prerequisite EEC 1223 with a minimum grade of C and Prerequisite EEC 1308 with a minimum grade of C and Prerequisite EEC 1512 with a minimum grade of C and Prerequisite EEC 1600 with a minimum grade of C and Prerequisite EEC 2271 with a minimum grade of C and Prerequisite EEC 2300 with a minimum grade of C and Prerequisite EEC 2312 with a minimum grade of C and Permission of the Program
This course is a site-based internship experience that enables students to apply learned theories, skills and concepts. Students are required to attend scheduled meetings and seminars as determined by the Department. (Note: A minimum of 120 hours is required at the student's qualifying place of employment or a licensed early childhood care and education site approved by the Department.)

EEC 3005 Child Growth and Development in Early Childhood (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Early Childhood Education subplan or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)

This course is the study of child growth and development from conception to age eight. The focus is on the development of the young child. Course content will include theories of child development; the means by which young children learn; the role of adults in children's development; and issues of health, safety and nutrition.

EEC 3009 Foundations of Early Childhood and Education (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Early Childhood Education subplan or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)

This course introduces the foundations of early childhood education, including key learning theories and early intervention models. Students will examine the role of early education in children's development and explore how these principles inform public policy, governance, and advocacy. The course emphasizes reflective inquiry and collaborative thinking to help students engage critically with current issues in the field.

EEC 3204 Curriculum in Early Childhood Education (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Early Childhood Education subplan and Pre- or Co-requisite EEC 3005 with a minimum grade of C
This course is a study of the components of developmentally appropriate curriculum. Students will evaluate learning environments, analyze classroom schedules and write age appropriate lesson plans for young children. (Note: This course requires 10 field experience hours in an early childhood setting.)

EEC 3266 Program Planning for Infants & Toddlers (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Early Childhood Education subplan

The content of the course introduces the proper design, implementation, and evaluation of infant and toddler programs by delivering an overview of curriculum promoting the growth and development of infants and toddlers. Class assignments offer experience to promote building relationships and supportive interactions. Students can examine ways to collaborate with families while gaining tools to create a developmentally appropriate environment and meaningful activities aligned with the Florida Developmental Early Learning Standards. Students have the opportunity to study a young child and design intentional learning activities from the results of assessment and observation. The course requires 15 Field Experience hours in a licensed, early childhood care and education setting serving children birth to 36 months.

EEC 3403 Young Children with Special Needs (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Early Childhood Education subplan or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)

This course introduces the student to the study of young children with special needs. The content includes legal perspectives; the family-based model of service delivery; the importance of early identification and strategies for teaching young children with special needs including the preparation of the learning environment and curriculum design. (Note: This course requires 5 field experience hours in an early childhood setting.)

EEC 3413 Working With Families in Early Childhood Education (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Early Childhood Education subplan or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)

This course is designed to provide students with a general understanding of how to support families within early childhood settings and the broader community. Students will explore variations in family structures and lifestyles. The course offers both historical and contemporary perspectives to promote thoughtful reflection and practices.

EEC 4207 Assessment and Evaluation of Young Children (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)
This course is designed to increase the student's effective use of assessment and evaluation procedures in early childhood care and education settings. The student will review appropriate observation and documentation procedures. Students will also compare, analyze and interpret assessments and results to plan curriculum that is responsive to and supports the development and learning of young children. (Note: This course requires 10 field experience hours in an approved early childhood care and education setting.)

EEC 4210 Integrated Curriculum I for Prekindergarten / Primary Education (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)

This course is designed to increase understanding of appropriate curriculum, teaching and assessment for children three to eight years of age (prekindergarten to grade three). Emphasis is placed on creating and adapting meaningful, challenging and engaging developmentally supportive learning experiences in literacy, literature and writing.

EEC 4211 Integrated Curriculum II: For Prekindergarten/Primary Education (3.00 Credits)
Prerequisite EEC 4210 with a minimum grade of C and (Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS))

This course will focus on exploring sequential math development, identifying how concepts are developed and acquired, promoting young children's development of mathematical concepts through problem solving, and assessing the child's developmental level. It will also focus on teaching science strategies using concept development, process of inquiry, planning for fundamental concepts in science including activities for young children at the appropriate stages of cognitive development, while utilizing appropriate technology to support teaching and learning.

EEC 4212 STEM in Early Childhood (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Early Childhood Education subplan and Prerequisite EEC 3204 with a minimum grade of C
This course presents the process of introducing science, technology, engineering, and math (STEM) for early childhood classrooms. The course includes planning and implementation of related activities. Additionally students develop strategies that promote thinking and problem solving skills through discovery and play. (Note: This course requires 15 field experience hours in an early childhood setting.)

EEC 4227 Creative Arts for Early Childhood Education (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Early Childhood Education subplan and Prerequisite EEC 3204 with a minimum grade of C
This course is designed to explore the development of creativity and the importance of creative experiences from birth through four years of age. Emphasis is placed on creating and adapting meaningful, challenging, engaging and developmentally supportive learning experiences in art, music, movement, and dramatics. The course incorporates methods to promote creativity into all aspects of the curriculum. (Note: This course requires 15 field experience hours in an early childhood setting.)

EEC 4247 Integrated Humanities, Social Science and Arts (3.00 Credits)
Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)

This course develops pre-service teachers' knowledge and development of curriculum and instruction in humanities, social science and arts for children ages 3 – grade 3. The course explores the importance of integrated experiences and provides students with opportunities to plan, implement and assess these experiences across disciplines.

EEC 4314 Classroom Management and Guidance of the Young Child (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)
This course focuses on effective classroom management and guidance strategies for young children from birth through eight years of age. Students will explore foundational concepts of development and examine how these principles inform positive behavior support in early childhood settings. Emphasis will be placed on developmentally appropriate practices for guiding behavior in both typically and atypically developing children. Topics include proactive classroom management techniques, the role of consistency, functional analysis of behavior, and collaboration with specialists to support individual needs. Students will learn practical strategies to create nurturing, structured environments that promote self-regulation and positive social interactions.
(Note: In addition to class meetings, a minimum of 10 hours of observation and participation in an early childhood setting are required.)

EEC 4408 Family, Teacher, and Community Relations in Early Childhood Education (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Early Childhood Education subplan
This course is designed to prepare the student to acquire an understanding of diversity within families and the development of positive relationships between teachers, families, and community. Implications from this knowledge will guide the development of systems and programs that promote sustained collaboration between families and schools for children. (Note: This course requires 5 field experience hours in an early childhood setting.)

EEC 4706 Early and Emergent Literacy in Early Childhood (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Early Childhood Education subplan
This course is designed to introduce the emergence of language and the fundamentals of early literacy development in children from birth to four years of age. Communication ranging from prenatal interactions through the preschool years will be explored along with the process of communication. Language, communication, literacy theory and current research are used to encourage the development of informed practices that are developmentally appropriate for the age of the child. (Note: This course requires 15 field experience hours in an early childhood setting.)

EEC 4940 Pre-Kindergarten/Primary Education Practicum I (1.00 Credits)
Passing scores on all sections of the General Knowledge Test and ((Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Preschool Education (Birth To Age 4) Subplan BS and Prerequisite EEC 4210 with a minimum grade of C) or (Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS) and Pre- or Co-requisite EEC 4210 with a minimum grade of C))

This course is designed to provide field experiences and support related to the early childhood education courses in which the student is concurrently enrolled. The practicum focuses on language arts and emergent literacy, providing activities to stimulate language acquisition and reading readiness through dramatic play and a print- rich environment. Content builds upon generic competencies studied in education and emphasizes the Florida Educator Accomplished Practices (FEAPS) at the pre-professional level. This course will enable the student to apply elements of a developmentally appropriate curriculum and environment for young children. Required field work will provide first-hand experience implementing course work in a public school setting. This experience will be monitored by a representative from the College of Education. The practicum also includes a series of mandatory professional leadership seminars. (Note: Contact hours: 15, with a minimum of 4 hours per week of field based experience, for a total of 60 field based hours per semester.)

EEC 4941 PreKindergarten/Primary Education Practicum II (1.00 Credits)
Passing scores on the Professional Education exam (ProEd) and ((Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Preschool Education (Birth To Age 4) Subplan BS and Prerequisite EEC 3204 with a minimum grade of C) or (Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS) and Prerequisite EEC 4940 with a minimum grade of C and Pre- or Co-requisite EEC 4211 with a minimum grade of C))

This course will enable the student to apply knowledge of developmentally appropriate curriculum and learning environments for young children. Field work required will provide first-hand experience implementing course work in a public school setting. This experience will be monitored by a representative from the College of Education. Content builds upon generic competencies studied in education and emphasizes the Florida Educator Accomplished Practices (FEAPS) at the pre-professional level. The practicum also includes a series of mandatory professional leadership seminars. (Note: Contact hours: 15, with a minimum of 4 hours per week of field-based experience, for a total of 60 field-based hours per semester.)

EEC 4942 Preschool Education Practicum II Early Childhood Education Preschool (Birth to Age 4) (1.00 Credits)
Prerequisite EEC 3204 and Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) and Pre- or Co-requisite EEC 4212
This course is designed to provide field experiences and support related to the early childhood education courses in which the student is concurrently enrolled. The practicum will focus on: exploring number concepts, how concepts are developed and acquired, promoting young children's concept development through problem solving, and assessing the child's developmental level. Science teaching strategies will use concept development, inquiry and curiosity, with an emphasis on exploration and discovery in sensory hands-on experiences, providing first-hand activities for young children at the appropriate stages of cognitive development. Appropriate technology will be utilized to support teaching and learning. This course will enable the student to demonstrate knowledge of developmentally appropriate curriculum and environments for young children. Field work required will provide first-hand experience implementing course work in a licensed childhood center. This experience will be monitored by a representative from the College of Education. The practicum also includes a series of mandatory professional leadership seminars. (Note: This course requires 60 hours of field-based experience.)

EEC 4944 Preschool Education Practicum I: (Birth to Age 4) (1.00 Credits)
Prerequisite EEC 3204 and Pre- or Co-requisite EEC 4227
This course is designed to provide field experiences and support related to the early childhood education courses in which the student is concurrently enrolled. The practicum focuses on language arts and emergent literacy, providing activities to stimulate language acquisition and reading readiness through dramatic play and a print-rich environment. This course will enable the student to demonstrate knowledge of developmentally appropriate curriculum and environments for young children. Field work required will provide first-hand experience implementing course work in a licensed early childhood setting. The practicum also includes a series of mandatory professional leadership seminars. (Note: This course requires 60 hours of field-based experience.)

EEC 4945 Senior Capstone for Preschool Education (Birth to Age 4) (4.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) and Admission to Subplan B: Preschool Education (Birth to Age 4) BS program and Successful completion of all program requirements.
This course requires students in the Preschool Education (Birth To Age 4) BS program to demonstrate competency on the five standards for Early Childhood Professional Preparation from National Association for the Education of Young Children (NAEYC). This capstone may be performed at a licensed early childhood center, which may be the student's employment site. This program provides a non-certification degree, focusing on professional training for employment not requiring teacher certification. (Note: The capstone also includes a series of mandatory professional leadership seminars.)

EEC 4946 Internship: Early Childhood Education PreKindergarten/Primary (4.0-12.00 Credits)
(Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Prekindergarten/Primary Education Studies Track or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)) and Prerequisite EEC 4941 with a minimum grade of C

This course requires students to demonstrate competency on the Florida Educator Accomplished Practices (FEAPs) and the Florida Academic Standards for early childhood education. Note: Students are required to complete an internship for a minimum of 35 hours per week for fifteen weeks in a public school setting.

EEC 4948 Early Childhood Education Internship (4.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Early Childhood Education subplan and Completion of program requirements
This course requires students to demonstrate competency on the first six standards for Early Childhood Professional Preparation from the National Association for the Education of Young Children (NAEYC). As a culminating experience to their program of study, students will complete an internship at a licensed early childhood center or setting approved by the College of Education, which may be the student's employment site. (Note: This course requires 240 field experience hours and seminars.)

## EET-Electronic Engineering Technology

EET 1015C DC Circuit Analysis with Lab (4.00 Credits)
Pre- or Co-requisite EET 1084C
This course will cover the direct current (DC) characteristics of electric and magnetic circuits, using Ohm's and Kirchhoff's laws, with the use of related theorems, including Thevenin, Norton, superposition, nodal and mesh equations, for solving DC circuits. The laboratory exercises cover the measurement and analysis of direct current (DC) circuits, including the verification of the related network theorems.

EET 1025C AC Circuit Analysis with Lab (4.00 Credits)
Prerequisite EET 1015C or Permission of the Program
This course will cover the alternating current (AC) characteristics of electric circuits, using single or multiple sinusoidal voltage and current sources. The course content includes resistance, inductance, and capacitance components used in combination circuit configurations for analyzing current and voltage behavior. Topics include two port networks, three phase power systems, series and parallel resonance, complex harmonic waveforms, high frequency modeling, and power transformers. The laboratory exercises cover the measurement and analysis of alternating current (AC) circuits.

EET 1035C AC/DC Circuits with Lab (3.00 Credits)
Prerequisite EET 1084C with a minimum grade of C

Fundamental course in DC and AC circuits designed to prepare students for further classes that apply the concepts of AC and DC circuits. This course includes a study of laws, theorems, and components used in DC and AC circuit analysis. Hands-on laboratory experiences reinforce content taught in lecture.

EET 1084C Introduction to Electronics (3.00 Credits)
No Requisites Required
This course provides an introduction to the basic fundamentals, terminology, and applications used in the electronics industry. The topic coverage will include circuit theory principles, electronic components, transistor usage, amplifiers, power supplies, digital logic techniques, and electronic instruments. This course will also include some basic laboratory exercises to strengthen the topic coverage as it pertains to basic measurement involving both analog and digital circuits.

EET 1205C Electronic Instrumentation (1.00 Credits)
No Requisites Required
This course introduces the student to the basic measurement techniques employing electronic test equipment. The topics covered will include the principle of operation and usage of digital multimeters, function generators, pulse generators, frequency counters, oscilloscopes, and logic analyzers.

EET 2140C Solid State Electronics with Lab (4.00 Credits)
Prerequisite EET 1035C or Permission of the Program
This course is a study of the characteristics in which active semiconductor devices are operated in their linear ranges. The areas of coverage include semiconductor diodes, bipolar junction transistors, field effect transistors, load lines and biasing, small signal analysis, hybrid parameters, amplifiers, complementary symmetry, Darlington Pair, decibels, Bode plots, and feedback. The laboratory exercises cover the measurement and analysis of solid state circuits and devices.

EET 2155C Linear Integrated Circuits with Lab (4.00 Credits)
Prerequisite EET 2140C with a minimum grade of C
This course covers the fundamentals and applications of linear integrated circuits and operational amplifiers. The course coverage includes inverting and non-inverting amplifiers, comparators, signal generators, differential and instrumentation amplifiers, operational amplifier specifications, active filters, modulator-demodulator integrated circuits, timers, analog to digital converters (ADC), and digital to analog converters (DAC). The laboratory exercises cover the measurement and analysis of linear circuits and devices.

EET 2949 Engineering Technology Work Experience (1.0-3.00 Credits)
Permission of the Program

This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. Variable credits are available, one to three per course. The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments. (Note: This course may be taken up to 12 times for a total of 12 credits.) To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

EET 2950C Electronics Capstone Project (3.00 Credits)
Permission of the Program

This capstone course integrates essential skills in electrical and digital circuits, semiconductor fabrication, cleanroom protocols, and advanced packaging technologies. Students will plan, design, and build a project aligned with semiconductor manufacturing practices, including fabrication, testing, documentation, and presentation. The course emphasizes cleanroom safety, professional conduct, technical planning, and the development of employability skills. Students will demonstrate project planning and technical communication for real-world applications in semiconductor manufacturing environments.

## EEX-Education: Exceptional Child

EEX 2010 Introduction to Exceptional Learners (3.00 Credits)
No Requisites Required

This course provides an overview of the characteristics, educational needs, and instructional approaches for students with exceptionalities. Topics include major categories of exceptional learners, the impact of exceptionalities on learning and development, and evidence-based strategies for supporting the academic success of all students.

EEX 3012 Nature and Needs of Exceptional Students K-12 (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT) or Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS) or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)

This course addresses curriculum alignment, assessment of learning gains, and technologies available to teach students with exceptionalities. Course topics also include community, advocacy and professional organizations to support the needs of students with varying exceptionalities..

EEX 3241 Curriculum and Instruction for Exceptional Students (3.00 Credits)
Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) and Pre- or Co-requisite EEX 3012 with a minimum grade of C

This course addresses curriculum alignment, assessment of learning gains, and technologies available to teach students with exceptionalities. Course topics also include community, advocacy and professional organizations to support the needs of students with varying exceptionalities.

EEX 4084 Differentiated Instruction of Exceptional and Diverse Students (3.00 Credits)
Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT)
This course is designed to introduce teacher candidates to the categories and characteristics of exceptional students served in the public school setting and how these classifications impact curriculum and instruction. Teacher candidates will review the concepts of differentiated instruction and inclusionary classroom practices for exceptional and diverse students.

EEX 4094 Nature and Diagnostic Assessment of Autism (3.00 Credits)
No Requisites Required
This course is an introduction to the nature of autism which surveys the history of Autism Spectrum Disorders (ASD) and gives an overview of the characteristics of children on the autism spectrum. Students will study the assessment and diagnosis of autism and examine research-based best practices for children on the autism spectrum.

EEX 4221 Educational Assessment of Exceptional Students (3.00 Credits)
(Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS)) and Prerequisite EEX 3012 with a minimum grade of C and Pre- or Co-requisite EDF 4430 with a minimum grade of C
This course is a study of theory and practice of informal and formal assessment of behavior and/or learning problems. Practice with evaluation instruments and strategies is a key component of the course. Use of assessment information in designing academic K-12 curriculum plans is taught.

EEX 4261 Strategy Instruction and Transitions for Exceptional Students (3.00 Credits)
Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) and (Prerequisite EEX 3012 with a minimum grade of C and Prerequisite EEX 3241 with a minimum grade of C)

The course addresses curriculum, high leverage practices and technologies available to teach students with exceptionalities. Course topics include problem solving the transitional needs of students with varying exceptionalities. (Note: This course includes a minimum of 10 school-based hours of experience with students with exceptionalities.)

EEX 4291 Effective Learning Environments for Autism Through Design, Assessment, Behavior Management and PBS (3.00 Credits)
Admission to AUTISM-NO program
This course offers instruction regarding positive behavior supports (PBS) management for children with autism. Class members will examine various behavior techniques, positive behavior strategies and classroom supports for children with Autism Spectrum Disorders (ASD). Class members will evaluate behavior assessments and construct instructional planning for children with autism.

EEX 4294 Differentiated Instruction (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)

This course is designed to increase pre-service teachers' knowledge and application of differentiated instruction for students. The course explores the foundations of differentiated instruction and its application for meeting the needs of all learners.

EEX 4604 Effective Classroom Management for Students in General and Exceptional Education (3.00 Credits)
Prerequisite EEX 3012 with a minimum grade of C and (Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT) or Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS))

This course equips educators with essential techniques and strategies to foster supportive, safe, and engaging learning environments that accommodate all students, including those with exceptionalities. Emphasis is placed on promoting positive interactions, effective communication, and on-task behavior through intentional use of language, behavioral expectations, and classroom management techniques. Students will explore methods for behavior management, consultation with school professionals and parents, and the creation of welcoming classroom climates in both general and exceptional education settings. The course includes 15 field hours to provide practical experience in applying these strategies.

EEX 4753 Collaboration with Families and Communities in Education (2.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)

This course is designed to highlight the skills and strategies necessary for building effective partnerships with families/caregivers, communities, and other key stakeholders in education. Teacher candidates will explore communication strategies, effective collaboration with individuals from differing backgrounds and the role of families and community organizations in supporting students' learning and development. Upon course completion, teacher candidates will be prepared to establish and maintain positive relationships with families and stakeholders, ensuring that all students have access to a comprehensive support system both in and outside of the classroom.

EEX 4761 Communication, Assessment, Strategies-Assistive -Instructional Technology for Students with Autism (3.00 Credits)
No Requisites Required
The course will examine the potential usefulness of Alternative and Augmentative Communication (AAC) supports to increase, maintain or improve functional communication skills of children with Autism Spectrum Disorder (ASD) in community and school settings. Students will develop the awareness and the necessary skills to conduct informed observations of communication abilities and to identify AAC supports that match the individual's learning style. Students will learn strategies to collaborate with teachers, family members and related professionals to increase communication amongst stakeholders.

EEX 4940 Internship: Exceptional Student Education (9.0-12.00 Credits)
Prerequisite Successful completion of all Exceptional Student Education BS program requirements and passing of all sections of the General Knowledge, Professional Education Exam and Subject Area Exam.

This course requires a teacher candidate to demonstrate competency on the Florida Educator Accomplished Practices (FEAPs) at the pre-professional level during one semester of full-time internship in a K-12 school setting as approved by the College of Education. Teacher candidates must assume full-day teaching duties for a minimum of six weeks during the fifteen week internship. The internship also includes mandatory seminars. Contact hours: a minimum of 35 hours per week for 15 weeks.

EEX 4941 Nature and Diagnostic Assessment of Autism Field Experience (1.00 Credits)
Students must be in the AUTISM-NO program and Pre- or Co-requisite EEX 4094
This course is a companion course to the Nature of Autism course. Students will spend time in a classroom with children who have Autism Spectrum Disorders (ASD) in order to apply the knowledge gained in the paired theory course. Assignments and peer discussion relating to the observed application of material covered in the companion course will be submitted. 30 clock hours spent with child or children diagnosed with ASD in a school setting.

EEX 4942 Effective Learning Environments for Individuals with Autism through Positive Behavioral Supports Field Experience (1.00 Credits)
Students must be in the AUTISM-NO program and Pre- or Co-requisite EEX 4291
This course is a companion course to the Effective Learning Environments for Students with Autism course. Students will spend time in a classroom with children who have Autism Spectrum Disorders (ASD) in order to apply the knowledge gained in the paired theory course. The content applied in the field component will include topics such as behavioral analysis through observation, a functional analysis with positive behavioral supports, and effective instructional practices for content delivery. Assignments and peer discussion relating to the observed application of material covered in the companion course will be submitted. 30 clock hours spent with child or children diagnosed with ASD in a school setting.

EEX 4943 Communication Assessment, Strategies-Assistive Instructional Technology for Students with Autism (1.00 Credits)
Students must be in the AUTISM-NO program and Pre- or Co-requisite EEX 4761
This course is a companion course to the Communication with Students with Autism, Families and Other Professionals course. Students will spend time in a classroom with children who have Autism Spectrum Disorders (ASD) in order to apply the knowledge gained in the paired theory course. Assignments and peer discussion relating to the observed application of material covered in the companion course will be submitted. 30 clock hours are required with a child or children diagnosed with ASD in a school setting.

## EME-Education Technology and Media

EME 2040 Introduction to Educational Technology (3.00 Credits)
No Requisites Required

This course introduces future educators to current trends in using technology in contemporary education settings. Provides an overview of the applications of educational technologies used to enhance the quality of teaching and learning in the classroom. Included in this course is an overview of fair use, ethics, and legal issues regarding the use of technologies in the field of education.

EME 4048 Designing for Learning Platforms (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Training and Development (Advanced Technical Certificate with Financial Aid Eligibility) (TRNDEV-ATC)

This course provides an overview into the various learning styles and platforms used for adult learning. Styles may include face-to-face, blended, online, live online, and hybrid, as well as the various technology tools which support these learning platforms. Educators develop learning objects which can be integrated into these various platforms as well as identify when best to apply each platform for effective learning environments. Learning design tasks for this course will also include task analysis, measurable performance objectives, lesson designs, and course material development.

EME 4232 Intermediate Applications of Technology for Educators (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Training and Development (Advanced Technical Certificate with Financial Aid Eligibility) (TRNDEV-ATC)

This course assists educators in developing resources to integrate media into instruction. Educators learn how to incorporate the tools available in the 21st century classroom to challenge students, create a hybrid classroom blending traditional classroom techniques and web based tools, and use social networking tools to challenge and inform learners.

EME 4312 Educational Technology for 21st Century Teaching (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Training and Development (Advanced Technical Certificate with Financial Aid Eligibility) (TRNDEV-ATC)

This course prepares educators to integrate technology into the classroom. Emphasis is on the use of current technology tools to facilitate teaching, learning, and assessment.

EME 4610 Emerging Trends in eLearning (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Training and Development (Advanced Technical Certificate with Financial Aid Eligibility) (TRNDEV-ATC)

Educators apply design skills to the principles of instructional design as applied to E-Learning. Skill development will include goal analysis, performance objective writing, instructional strategies, and creation of instructional materials. Educators will utilize industry standard authoring systems along with the process of developing and delivering Web-based instructional presentations.

EME 4673 Foundations of Instructional Design (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Training and Development (Advanced Technical Certificate with Financial Aid Eligibility) (TRNDEV-ATC)

This course introduces students to Instructional Systems Development (ISD) and how the process, when followed, results in training and development programs that focus on real workplace issues and produce solutions that are replicable, sustainable, and effective. Students will review various models, and use the ADDIE Model (Analyze, Design, Develop, Implement, Evaluate) to develop solutions at the individual, course, program, and organizational level.

## EMS-Emergency Medical Services

EMS 0002 Dispatcher: Police, Fire, and Ambulance (0.00 Credits)
No Requisites Required
The purpose of this course is to prepare students for employment as a dispatcher: police, fire, ambulance (SOC 43-5031). The content includes, but is not limited to, ethics and the role of the telecommunicator; standard telecommunication operating procedures; relationship to field personnel; understanding of command levels; typical layouts of message centers; use of performance aids; overview of emergency agencies; functions and terminology; use of correct words and grammar; communications equipment, functions and terminology; types of telecommunication equipment; malfunctions and maintenance agreements; proper and correct telephone and dispatching procedures and techniques; cooperation and reciprocal agreements with other agencies; federal, state, and local communication rules; emergency situations and operating procedures; emergency medical dispatch procedures; employability skills; leadership and human relations skills; and health.

EMS 0110 Emergency Medical Technician PSAV (0.00 Credits)
No Requisites Required
This PSAV course will educate students in the cognitive, psychomotor and affective requirements as described in the National EMS Education Standards: EMT. Successful completion of the course will allow students to apply for the National Registry of EMT and State of Florida certification examination for Emergency Medical Technician.

EMS 0210C Paramedic I (0.00 Credits)
No Requisites Required
This course is an in-depth study of the U.S. Department of Transportation, EMT Paramedic: National Standard Curriculum/EMS, the Florida Department of Education Standards, and in accordance with F.S. 401.2701 and Florida Administrative Code 64J-1.020 which includes aspects of the prehospital environment. This is the first phase in the sequence necessary for completion of the Paramedic Certificate curriculum. This course is designed to reinforce concepts and clinical skills learned at the EMT level and to integrate this knowledge with beginning advanced life support concepts and skills. Emphasis is placed psychomotor skills for, patient assessment, airway management and ventilation, pharmacology, monitoring devices, and management of trauma patients.

EMS 0211C Paramedic II (0.00 Credits)
No Requisites Required
This is an instructional program that prepares students for employment as paramedics SOC 29-2041 (Emergency Medical Technicians & Paramedics) to function at the basic pre-hospital emergency medical technician - paramedic level and treat various medical/trauma conditions, using appropriate equipment and materials. The program prepares students for certification as paramedics in accordance with Chapter 64J-1.020 of the Florida Administrative Code.

EMS 0212C Paramedic III (0.00 Credits)
No Requisites Required
This course is an in-depth study of the U.S. Department of Transportation, EMT Paramedic: National Standard Curriculum/EMS, the Florida Department of Education Standards, and in accordance with F.S. 401.2701 and Florida Administrative Code 64J-1.020 which includes aspects of the prehospital environment. This is the third phase in the sequence necessary for completion of the Paramedic Certificate curriculum. This final phase will focus on gynecological, obstetrical, and pediatric emergencies. The student will be introduced to concepts in the Incident Command structure, HAZMAT, air medical, vehicle extrication, mass casualties, and mass casualties due to terrorism. The student will also demonstrate principles in ambulance operations. This course will reinforce theory and psychomotor abilities learned in the classroom, lab and clinical settings in order to integrate this knowledge in advanced life support concepts and skills. The focus will be to ensure the student is ready to transition to the working world as a paramedic by applying learned skills during the capstone phase as a lead paramedic and a team member participant.

EMS 1119 Fundamentals of Emergency Medical Care (6.00 Credits)
Prerequisite possession of "American Heart Association Basic Life Support" level CPR card and Admission to Emergency Medical Technician (Applied Technology Diploma without Financial Aid Eligibility) (EMT-ATD) and Pre- or Co-requisite EMS 1119L and Pre- or Co-requisite EMS 1411
This course is an introduction to the knowledge, skills, and attitudes required in emergency medical care situations, and is taught in accordance with the latest National EMS Education Standards for the Emergency Medical Technician. Included is information concerning basic structure and function of body systems and recent state of the art procedures required of the emergency medical technician.

EMS 1119L Fundamentals of Emergency Medical Care Lab (2.00 Credits)
Prerequisite "American Heart Association BLS Provider" CPR card. and Pre- or Co-requisite EMS 1119 and Pre- or Co-requisite EMS 1411
Laboratory practice in emergency procedures for life-threatening disease, accident, or illness is closely supervised to foster confidence in the student's abilities to apply theory in a laboratory setting. Techniques for patient assessment, evaluation and treatment are practiced in an assessment-based format in a laboratory setting.

EMS 1411 Fundamentals of Emergency Medical Care Clinical Experience (2.00 Credits)
Prerequisite "American Heart Association BLS Provider" level CPR card and Pre- or Co-requisite EMS 1119 with a minimum grade of C and Pre- or Co-requisite EMS 1119L with a minimum grade of C
The student will be assigned to contract agencies for patient care experience with hospital agencies for emergency department experience under the direct supervision of hospital personnel. The course is designed as a clinical component where the individual gains an appreciation of emergency and non-emergency patient care in relationship to the knowledge and practical skills learned in the classroom.

EMS 1421 EMT Field Internship (2.00 Credits)
Prerequisite EMS 1119 with a minimum grade of C and Prerequisite EMS 1119L with a minimum grade of C and Prerequisite EMS 1411 with a minimum grade of C
The student will be assigned to contract agencies for patient care experience with fire-rescue and ambulance units under the direct supervision of State of Florida certified EMTs and Paramedics. The course is designed as a competency-based field component where the individual gains emergency and non-emergency insight into the mechanics of assisting the ill or injured patient in the out-of-hospital environment.

EMS 2601 Paramedic Theory I (10.00 Credits)
(Admission to Emergency Medical Services (Associate in Science) (EMS-AS) or Admission to Paramedic (Certificate with Financial Aid Eligibility) (PMED-CT)) and Pre- or Co-requisite EMS 2601L and Pre- or Co-requisite EMS 2664 and Pre- or Co-requisite Current Florida EMT certification and Pre- or Co-requisite Current AHA BLS Provider

This is the first phase in the sequence necessary for completion of the Paramedic Certificate curriculum. This course is designed to reinforce concepts and clinical skills learned at the EMT level and to integrate this knowledge with beginning advanced life support concepts and skills. Emphasis is placed on psychomotor skills for patient assessment, airway management and ventilation, pharmacology, monitoring devices, and management of trauma patients. This course is an in-depth study of the U.S. Department of Transportation, Paramedic: National EMS Education Standards, the Florida Department of Education Standards, and in accordance with F.S. 401.2701 and Florida Administrative Code 64J-1.020 which includes aspects of the prehospital environment.

EMS 2601L Paramedic Laboratory I (4.00 Credits)
(Admission to Emergency Medical Services (Associate in Science) (EMS-AS) or Admission to Paramedic (Certificate with Financial Aid Eligibility) (PMED-CT)) and Pre- or Co-requisite EMS 2601 with a minimum grade of C and Pre- or Co-requisite EMS 2664 with a minimum grade of C and Pre- or Co-requisite Current Florida EMT certification and Pre- or Co-requisite Current AHA BLS Provider
This laboratory course is an in-depth study of the U.S. Department of Transportation, Paramedic: National EMS Education Standards, which covers "hands-on" skills, related to Paramedic Theory I.

EMS 2602 Paramedic Theory II (10.00 Credits)
(Admission to Emergency Medical Services (Associate in Science) (EMS-AS) or Admission to Paramedic (Certificate with Financial Aid Eligibility) (PMED-CT)) and Prerequisite EMS 2601 with a minimum grade of C and Prerequisite EMS 2601L with a minimum grade of C and Prerequisite EMS 2664 with a minimum grade of C and Pre- or Co-requisite EMS 2602L with a minimum grade of C and Pre- or Co-requisite EMS 2665 with a minimum grade of C and Pre- or Co-requisite Current Florida EMT certification and Pre- or Co-requisite Current AHA BLS Provider
This is the second phase in the sequence necessary for completion of the Paramedic Certificate curriculum. This course is an in-depth study of the U.S. Department of Transportation, Paramedic: National EMS Education Standards, the Florida Department of Education Standards, and in accordance with F.S. 401.2701 and Florida Administrative Code 64J-1.020 which includes aspects of prehospital medical emergencies related to the cardiovascular systems, disease pathophysiology, cardiac arrest management, the nervous system, endocrine emergencies, infectious disease, obstetrical, gynecological, neonatal assessment and management, pediatrics, and patients requiring special considerations.

EMS 2602L Paramedic Laboratory II (4.00 Credits)
(Admission to Emergency Medical Services (Associate in Science) (EMS-AS) or Admission to Paramedic (Certificate with Financial Aid Eligibility) (PMED-CT)) and Prerequisite EMS 2601 with a minimum grade of C and Prerequisite EMS 2601L with a minimum grade of C and Prerequisite EMS 2664 with a minimum grade of C and Pre- or Co-requisite EMS 2602 with a minimum grade of C and Pre- or Co-requisite EMS 2665 with a minimum grade of C and Pre- or Co-requisite Current Florida EMT certification and Pre- or Co-requisite Current AHA BLS Provider
This laboratory course is an in-depth study of the U.S. Department of Transportation, Paramedic: National EMS Education Standards which covers "hands-on" skills related to Paramedic Theory II.

EMS 2659C Paramedic Field Internship (7.00 Credits)
(Admission to Emergency Medical Services (Associate in Science) (EMS-AS) or Admission to Paramedic (Certificate with Financial Aid Eligibility) (PMED-CT)) and Prerequisite EMS 2601 with a minimum grade of C and Prerequisite EMS 2601L with a minimum grade of C and Prerequisite EMS 2602 with a minimum grade of C and Prerequisite EMS 2602L with a minimum grade of C and Prerequisite EMS 2664 with a minimum grade of C and Prerequisite EMS 2665 with a minimum grade of C and Pre- or Co-requisite Current Florida EMT certification and Pre- or Co-requisite Current AHA BLS Provider
This course is the capstone field internship phase. In the prehospital field setting under the guidance of an approved field paramedic preceptor, the student will utilize the application of all skills related to paramedic theory and psychomotor skills presented in Phase I and Phase II. This course aligns with the U.S. Department of Transportation, Paramedic: National EMS Education Standards, the Florida Department of Education Standards and in accordance with F.S. 401.2701 and Florida Administrative Code 64J-1.020.

EMS 2664 Paramedic Clinical I (3.00 Credits)
(Admission to Emergency Medical Services (Associate in Science) (EMS-AS) or Admission to Paramedic (Certificate with Financial Aid Eligibility) (PMED-CT)) and Pre- or Co-requisite EMS 2601 with a minimum grade of C and Pre- or Co-requisite EMS 2601L with a minimum grade of C and Pre- or Co-requisite Current Florida EMT certification and Pre- or Co-requisite Current AHA BLS Provider
This course involves the hospital and field clinical application of skills related to paramedic theory and application presented in Paramedic Theory I and Paramedic Laboratory I.

EMS 2665 Paramedic Clinical II (4.00 Credits)
(Admission to Emergency Medical Services (Associate in Science) (EMS-AS) or Admission to Paramedic (Certificate with Financial Aid Eligibility) (PMED-CT)) and Prerequisite EMS 2601 with a minimum grade of C and Prerequisite EMS 2601L with a minimum grade of C and Prerequisite EMS 2664 with a minimum grade of C and Pre- or Co-requisite EMS 2602 with a minimum grade of C and Pre- or Co-requisite EMS 2602L with a minimum grade of C and Pre- or Co-requisite Current Florida EMT certification and Pre- or Co-requisite Current AHA BLS Provider
This course is an in-depth clinical experience utilizing the application of skills related to paramedic theory and psychomotor skills presented in Paramedic I and Paramedic II under the guidance of hospital personnel. This course aligns with the U.S. Department of Transportation, Paramedic: National EMS Education Standards, the Florida Department of Education Standards and in accordance with F.S. 401.2701 and Florida Administrative Code 64J-1.020.

## ENC-English Composition

ENC 0025 Development Writing II (0.00 Credits)
Prerequisite ENC 0015 or Prerequisite appropriate score on the SPC placement test
This college preparatory course is designed to improve basic writing skills in grammar, usage, spelling, capitalization, punctuation, sentence structure, and vocabulary by means of practice in paragraphs and short essays. It is intended to prepare students for successful completion of college-level writing courses in English. No credits are awarded for completion of this course.

ENC 0027 Developmental Reading and Writing II (0.00 Credits)
(Prerequisite REA 0001 with a minimum grade of C or Prerequisite REA 0007 with a minimum grade of C or Qualified for Level 2 Reading by test scores) and ((Prerequisite ENC 0010 with a minimum grade of C or Prerequisite ENC 0015 with a minimum grade of C or Qualified for Level 2 Writing by test scores) or Approval of the Program Administrator)
This developmental course provides integrated reading and writing instruction. The skills taught in this course include literal comprehension, critical comprehension, vocabulary, and Standard American English grammar and usage. Students will improve their skills through reading selected passages, including textbook selections, and by composing effective paragraphs and essays in a variety of rhetorical modes. This course is intended to prepare students for successful completion of college-level courses requiring intensive reading and writing.

ENC 0056 Basic Writing II: My Bridge to Success (0.00 Credits)
Prerequisite Appropriate score on the SPC placement test or permission of a Communications Department program administrator.
This college preparatory course is designed to improve basic writing skills in grammar, diction and usage, punctuation, sentence structure and variety, and paragraph and essay composition using course modules. Course strategies will include one-on-one instruction, small group instruction, and computer instruction in a lab setting. A diagnostic assessment will determine placement into course modules as well as exit requirements. This course is intended to prepare students for successful completion of college-level writing courses in English. No credits are awarded for completion of this course.

ENC 1101 Composition I (3.00 Credits)
(Prerequisite ENC 0025 with a minimum grade of C and Pre- or Co-requisite REA 0017 with a minimum grade of C) or Prerequisite EAP 1695 with a minimum grade of C or (Prerequisite ENC 0056 with a minimum grade of C and Pre- or Co-requisite REA 0056 with a minimum grade of C) or Prerequisite ENC 0027 with a minimum grade of C or Prerequisite appropriate score on the college placement test

This course introduces students to rhetorical concepts and audience-centered approaches to writing including composing processes, language conventions and style, and critical analysis and engagement with written texts and other forms of communication. ***State Core Course Description (State Rule 6A-14.0303).*** This course partially satisfies the writing requirements outlined in the General Education Requirements. **This course satisfies the Communications General Education Core.** Completion of this course with a grade of "C" or better is linked to earning the Fundamentals of Written Communication digital badge. (Note: Credit is only given for ENC 1101 or ENC 1121H or IDS 1106. Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

ENC 1101H Honors Composition I (3.00 Credits)
Prerequisite Appropriate score on the college placement test or Permission of the Program

This course introduces students to rhetorical concepts and audience-centered approaches to writing including composing processes, language conventions and style, and critical analysis and engagement with written texts and other forms of communication. ***State Core Course Description (State Rule 6A-14.0303).*** This course partially satisfies the writing requirements as outlined in the General Education Requirements. **This course satisfies the Communication General Education Core.** (Note: Credit is only given for ENC 1121H or ENC 1101 or IDS 1101H).

ENC 1102 Composition II (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite appropriate score on the college placement test
This course builds upon the skills developed in Composition I. It provides further instruction in the planning, organization, and writing of essays. It stresses methods of library research including information retrieval from electronic sources, and emphasizes writing of the research paper and the paper of literary interpretation. The reading includes selections from at least two forms of literature. This course partially satisfies the writing requirements outlined in the General Education Requirements. (Note: Credit is only given for ENC 1102 or ENC 1122H. Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

ENC 1102H Honors Composition II (3.00 Credits)
(Prerequisite ENC 1101 with a minimum grade of C and Prerequisite appropriate score on the college placement test) or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1101H with a minimum grade of C or Prerequisite IDS 1111H with a minimum grade of C or Permission of the Program
This course builds upon the skills developed in Honors Composition I. It provides the academically talented student further opportunity to learn to write effectively. It emphasizes writing papers of literary interpretation, using the library, finding and evaluating primary and secondary source material, and employing that material in formally documented research papers. Conferences for individualized instruction are provided. This course partially satisfies the writing requirements as outlined in the General Education Requirements. (Note: Credit is only given for ENC 1122H or ENC 1102.)

ENC 2210 Technical Writing (3.00 Credits)
Prerequisite ENC 1101 or Prerequisite ENC 1101H
This course is offered for students desiring experience in various types of technical writing, such as process reports, investigative reports, feasibility studies, instructions, memoranda, and letters. Concentration is on practice in analyzing and developing reports, in collecting and organizing data, and in preparing the formal and informal report. This course has value in the fields of business administration, military, engineering, health, hospitality, law enforcement, architecture, building construction, and science. Assignments are related to the individual interest of the student. (Note: This course has a substantial writing requirement).

## ENG-English: General

ENG 2100 Introduction to Motion Pictures (3.00 Credits)
Prerequisite ENC 0025 or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test
This course is a general survey of motion pictures emphasizing the synthesis of the dramatic, narrative, artistic, and technical components of the medium. (Note: This course has a substantial writing requirement.)

## ENL-English Literature

ENL 2012 British Literature I (to 1800) (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1101H with a minimum grade of C or Prerequisite IDS 1111H with a minimum grade of C or Prerequisite appropriate score on the college placement test
This course is a humanistic study of British literature from Anglo-Saxon times through the 18th Century. Representative selections from each period are studied for interpretation, background, artistic qualities, and ethical meaning, with emphasis on human values and application to life. This course also stresses methods of library research and emphasizes composition of the research paper and the paper of literary interpretation. (Note: This course partially satisfies the writing requirements outlined in the General Education Requirements. Credit is only given for ENL 2012 or ENL 2012H.)

ENL 2022 British Literature II (since 1800) (3.00 Credits)
Prerequisite ENC 1101 or Prerequisite ENC 1101H or Prerequisite IDS 1101H or Prerequisite IDS 1111H or Prerequisite appropriate score on the college placement test.
This course is a study of British literature of the 19th and 20th centuries from the same approach as that of British Literature I. This course also stresses methods of library research and emphasizes composition of the research paper and the paper of literary interpretation. (Note: This course partially satisfies the writing requirements outlined in the General Education Requirements. British Literature I is not necessarily a prerequisite to this course).

ENL 4294 Topics in British Literature since 1800 (3.00 Credits)
Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

This course explores British literature from 1800 to the present and the various literary movements and historical transformations that shape each period. Engaging with poetry, prose, and fiction, students will deepen their understanding of the ways in which writers, historians, and philosophers represented the upheavals, wars, technological advancements, empire-building, and/or national culture of Great Britain. Beginning with the Romantic period, the course will trace the formal, aesthetic, and thematic characteristics of British literature, noting continuities and differences from one period to the next. This course is reading and writing intensive.

## ENT-Entrepreneurship

ENT 1000 Intro to Entrepreneurship (3.00 Credits)
No Requisites Required
This is a practical course designed to assist students in determining if they have the traits and skill set to be entrepreneurs. It is designed for students who think they may want to start a business for the first time or for those already in business seeking to expand or diversify. Emphasis will be placed on the practical aspects of creating and running a business and on teaching the skills and tools for effective decision making. Topics will include: feasibility studies, SWOT analysis (strengths, weakness, opportunities, threats), market research, opportunity recognition, idea and product development, team formation, resource funding, and basics for business plan development.

ENT 1012 Entrepreneurship Management (3.00 Credits)
Prerequisite ENT 1000
This course seeks to provide the knowledge, skills and tools for students to successfully plan, design and manage a new business venture. It is intended for those students considering self-employment for the first time or for those who are already committed as entrepreneurs. The processes of launching an entrepreneurial venture and learning the skills and techniques necessary for effective management, growth and exit strategy will be covered in the course. Students will analyze the decision making models and strategies and apply them in the management of business ventures.

ENT 2010 Planning the Entrepreneurial Venture (3.00 Credits)
Prerequisite ENT 1000
This is a practical course designed to guide students through the process of planning and preparing a business plan for the purposes of launching and funding an entrepreneurial venture. It is created and developed for students who have a business idea they are interested in pursuing as a start-up company or have an existing business they are planning to expand or diversify. Emphasis will be placed on the necessary research and analysis that is a required part of writing a business plan and the basics for launching and financing a new venture.

ENT 2120 Entrepreneurial Marketing and Sales (3.00 Credits)
Prerequisite ENT 1000
This course provides the knowledge, skills and tools for students to successfully plan and research the marketing components and financial aspects of launching a new business venture. This is a practical course intended for those students considering self-employment for the first time or for those who are already committed as entrepreneurs and seeking to expand or diversify their product or service offerings. Students will research target markets, pricing and product placement, competition, study feasibility, and learn the budgeting process critical to business success. Students will analyze decision making models and strategies as they pertain to marketing, sales and financing a business venture.

ENT 2612 Principles of Creativity and Innovation Leadership (3.00 Credits)
No Requisites Required

This course explores the integral role that creativity plays in individual, team, and organizational innovation. The course is designed to examine the ideals, practices, and tools behind creativity, innovation, and change. It analyzes how individual characteristics and organizational processes can enhance or diminish creativity. Students will engage in experiential learning assignments and exercises to facilitate skill development and increase confidence in these important areas. Students will work individually and in teams to apply the course content to a variety of real-world scenarios. It is organized around applying innovation processes, creative thinking, using real-world applications, and a major project based on real-world innovative organization case studies. It will be very interactive and is designed to be based in experiential learning.

## ESC-Earth Science; Geology

ESC 1000C Earth Science (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite MAT 0028)

Using the scientific method, critical thinking skills, data analysis, this course will examine the fundamental processes of the earth system, composed of an atmosphere, hydrosphere, lithosphere, biosphere, and exosphere, through time. The course will also explore interactions between these spheres, including critical analysis of scientific theories and emphasize earth's connections with humans. ***State Core Course Description (State Rule 6A-14.0303).*** This course is taught in a "C" format with 2 hours of lecture and 1 hour of lab. **This course satisfies the Natural Sciences General Education Core.** (Note credit is not given for both ESC 1000C and ESC 1000/L).

## ETC-Engineering Technology: Civil

ETC 2521C Hydraulics and Hydrology (3.00 Credits)
Prerequisite MAC 1105 with a minimum grade of C or Prerequisite MGF 1130 with a minimum grade of C or Prerequisite MGF 1106 with a minimum grade of C or Prerequisite MGF 1107 with a minimum grade of C or Prerequisite STA 2023 with a minimum grade of C or Prerequisite STA 2023H with a minimum grade of C
This course is an introduction to the basic theory, engineering concepts and design technology of hydraulics and hydrology, which is the distribution, conveyance and management of water. Topics include the watershed, stream flow analysis, drainage areas, detention ponds, retention ponds, storm water run-off, and hydraulic flow in pipes and in open channel systems.

## ETD-Engineering Technology: Drafting

ETD 1320C Introduction to CAD (3.00 Credits)
No Requisites Required
This course is about using the major features of AutoCAD to make graphic displays including basic geometric figures, orthographic views of three-dimensional objects, architectural and construction drawings, and pictorial drawings of three-dimensional objects. The major topics include the AutoCAD drawing, utility, file handling, text, editing, dimensioning, and plotting features. (Note: This course is 2 hours lecture and 3 hours lab. MAC computers are not recommended for ETD courses.).

ETD 1340C AutoCAD II (3.00 Credits)
Prerequisite ETD 1320C
This course is a continuation of Introduction to CAD. The student will learn the advanced topics in AutoCAD using intermediate techniques of AutoCAD software to develop three dimensional drawings, construction drawings and architectural drawings. The major topics include plotting by various methods, use of the rotation option to draw auxiliary views, extended work with hatching, extended work with blocks and wblocks, dimensioning, use of attributes, library files, polylines, solids, system variables, and customizing AutoCAD. (Note: MAC computers are not recommended for ETD courses.)

ETD 1350C AutoCAD Inventor (3D modeling) (3.00 Credits)
Prerequisite ETD 1320C or Permission of the Program
This course covers the construction, viewing, and plotting of three-dimensional drawings of objects, including construction and architectural drawings. The major topics involve the construction of three-dimensional drawings by the use of various AutoCAD three-dimensional drawing facilities including (1) prismatic-object construction, (2) preconfigured primitive objects, (3) three-dimensional coordinates, and (4) three-dimensional surface entities. (Note: MAC computers are not recommended for ETD courses.)

ETD 1390C Introduction to Architectural Revit (3.00 Credits)
No Requisites Required
This is an introduction course using Revit architectural software to produce three dimensional (3-D) designs and details of buildings. Topics consist of the techniques and methods to create architectural buildings to include: site plans, floor plans, roof design, 3-D photo-realistic rendering, and creating two dimensional (2-D) architectural drawings from the construction's documents set of structural drawings. (Note: MAC computers are not recommended for ETD courses.)

ETD 2364C Introduction to SolidWorks (3.00 Credits)
No Requisites Required
This course is an introduction to the new designing techniques and capabilities of solid modeling using the SolidWorks software. Topics include the integration of advance parametric solid modeling drawing tools into SolidWorks. (Note: MAC computers are not recommended for ETD courses.)

ETD 2367C Fusion 360 (3.00 Credits)
Prerequisite ETD 1320C with a minimum grade of C

Autodesk Fusion 360 is 3D mechanical design software that includes CAD and CAM productivity and design communication tools that can help students reduce errors, communicate more efficiently, and deliver innovative product designs faster. The Fusion 360 modeling is an accurate 3d digital prototype software that can validate the form, fit, or function of a design. Fusion 360 unites direct modeling and parametric workflows so the student will have the right tools and processes for building their design. Fusion 360 supports interfacing with CNC and 3D printing equipment; the student will be shown how to access this software.

ETD 2368C Advanced Solidworks (3.00 Credits)
Prerequisite ETD 2364C or Permission of the Program
This course presents the advanced use of new designing techniques and capabilities of solid modeling using the SolidWorks software, including the integration of the advanced parametric modeling and drawing tools for SolidWorks. The course topics to be covered include advanced 3D sketching, advanced work planes, advanced assembly construction, bottom up and top down, part configuration, Solid Works Tool Box applications, concept of mold design, and creation of sheet metal parts and assemblies. (Note: MAC computers are not recommended for ETD courses.)

ETD 2369C SolidWorks Applications (3.00 Credits)
Prerequisite ETD 2364C with a minimum grade of C
This course presents the complex application of advanced designing techniques and capabilities of solid modeling using the SolidWorks software, including the integration of the advanced parametric modeling and drawing tools for SolidWorks. The course topics covered include advanced sketching, advanced assembly construction, mechanism design, CosmosWorks, PhotoWorks, the creation of molded parts, and rendered parts. (Note: MAC computers are not recommended for ETD courses.)

ETD 2371C Rapid Protyping Model Design and Fabrication (3.00 Credits)
Prerequisite ETD 2364C and (Prerequisite ETD 2368C or Prerequisite ETD 2369C)
Rapid model making and prototype design is a valued part of many industries, including transportation, architecture, product, packaging, media, and entertainment. The growth of rapid prototyping technology has opened up new areas of development in design representation, such as simulation analysis and various rapid prototyping processes. This course will develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students select a field of specialization to explore methods and materials in a number of options in industrial environment with the use of computer simulation, modeling, and rapid prototyping. (Note: MAC computers are not recommended for ETD courses.)

ETD 2372C Rapid Prototyping II-Manufacturing Methods (3.00 Credits)
No Requisites Required
Students will explore simulation and design analysis of rapid prototyping and learn the relationships of physical prototyping to the design industry by developing a manufacturing project plan. Reverse engineering and failure prevention will also be studied during this course. When available, field trips to local manufacturing facilities will expose the students to current industry practices and the latest technologies. Several problem-solving projects will test their creativity, design abilities, and prototyping skills. The class environment will foster a design community providing feedback and critique from classmates. (Note: MAC computers are not recommended for ETD courses.)

ETD 2382C Solidworks Simulation Design Analysis (3.00 Credits)
Prerequisite ETD 2364C with a minimum grade of C and (Prerequisite ETD 2368C with a minimum grade of C or Prerequisite ETD 2369C with a minimum grade of C)
This course will use the Finite Element Analysis (FEA) theory topics to cover static component forces and resultant force analysis of basic shapes using SolidWorks simulation design analysis. The major topics will address model definition, model shape and setup, analysis type based on environmental conditions, analysis assumptions and limitations, convergence techniques that will lead to a more exact solution to the analysis, interpreting the results correctly, and using these results to optimize the baseline design based on design requirements. (Note: MAC computers are not recommended for ETD courses.)

ETD 2392C Advanced Architectural Revit (3.00 Credits)
Prerequisite ETD 1390C or Permission of the Program
This is an advanced course of Autodesk Revit to create, design and produce construction and schematic drawings of mechanical, electrical and plumbing systems of a building project. Topics include the techniques used to create architectural building drawings to include an overview of the Building Information Modeling (BIM) process, including the design integration of the various building disciplines: architectural, interior design, structural, mechanical, electrical and plumbing (MEP). (Note: MAC computers are not recommended for ETD courses.)

ETD 2930C Advanced AutoCAD Applications (3.00 Credits)
Prerequisite ETD 1340C with a minimum grade of C
This course is a continuation of the topics introduced in ETD 1320C & ETD 1340C. Advanced AutoCAD will offer students an industry specific and relevant curriculum, which will cover topics such as advanced drawings setup, contract document creation, plan set preparation, printing/plotting and incorporating a freely available third-party source such as aerial imagery. The student will expand on their knowledge of AutoCAD by using design and drafting techniques that can be easily transferred to a modern office/work environment. The course is designed to meet the requirements of today's engineering, architecture and construction fields (AEC). Students will learn to develop construction drawings and/or architectural drawings using CAD workflows currently employed by many of today's industries. Once completed students should be able to transition to an office environment in the AEC field. Upon completion student will also be prepared to take the Autodesk AutoCAD Professional Certification Exam.

## ETI-Engineering Technology: Industrial

ETI 1100 Statistical Process Control (3.00 Credits)
No Requisites Required
This course will present students with the theories and methods of modern quality control techniques. Students will be introduced to the importance of Statistical Process Controls (SPC) in controlling and improving the production process and emphasis is placed on the practical knowledge of using statistical methods for analysis. Topics will include process capability, control charts, acceptance sampling, principles and theories of process improvement.

ETI 1110 Introduction to Quality Assurance (3.00 Credits)
No Requisites Required
This course defines the role of quality in an industrial environment. Topics include the use of quality management techniques and quality philosophies, process development, techniques used for evaluation, approaches used on continuous operations, methods used to control quality, and the International Organization for Standardization (ISO) series of standards. The responsibility of quality assurance during the engineering, manufacturing, and marketing of a product is also covered. Quality management ensures that an organization, product or service is consistent. It has four main components quality planning, quality assurance, quality control and quality improvement.

ETI 1420 Manufacturing Processes and Materials I (3.00 Credits)
No Requisites Required
This course provides coverage of the characteristics, fundamentals, and manufacturing properties of materials, including metal alloys, polymers, ceramics, and composites. The metal-casting processes and the shaping and forming processes are also covered along with the machines needed for manufacturing.

ETI 1622 Intro to Lean Six Sigma (3.00 Credits)
No Requisites Required
This course provides an introduction to the basic principles, and theories of lean manufacturing. Lean manufacturing involves identifying and eliminating non-value-adding activities in design, production, and supply chain management. The course introduces the concepts of Juran, Demming, Taylor, Ford, Shingo, and Ohno. The coverage also includes topics related to cost reduction, work-free manufacturing, continuous flow, Kaizen, the 5S's, value stream mapping, modular manufacturing, and overall equipment effectiveness (OEE).

ETI 1628 Process Improvement Teams (3.00 Credits)
No Requisites Required
This course begins with an exploration of teams and how they work. Process improvement teams create the opportunity to mix complementary technical work skills to improve a process. The coverage includes the principles and tools used by self-directed teams in identifying and solving problems in the workforce.

ETI 1701 Industrial Safety (3.00 Credits)
No Requisites Required
This course focuses on the theories and principles of occupational safety and health in a practical and useful real world job related setting. The major topics include the Occupational Safety and Health Administration (OSHA) compliance, safety standards, code enforcement, ergonomic hazards, mechanical hazards, falling, lifting, electrical hazards, fire hazards, industrial hygiene, radiation, noise, emergencies, and environmental safety.

ETI 2041C Medical Device Design and Prototyping (3.00 Credits)
Pre- or Co-requisite ETD 2371C with a minimum grade of C or Pre- or Co-requisite ETD 2372C with a minimum grade of C
This course will provide an understanding of the processes and procedures for manufacturing a medical devices. Topics include the design process, design tools, prototyping, product development, documentation, post market surveillance, and corrective and preventative actions.

ETI 2610 Six Sigma Methodology and Tools (3.00 Credits)
Prerequisite ETI 1622 with a minimum grade of C
This course provides an introduction to the basic principles and theories of Six Sigma as used in the continuous improvement process. The course examines the tools most common to six sigma projects, like DMAIC (define, measure, analyze, improve, and control), and how and when to use them. Course coverage focuses on measurement methods, data collection, data integrity, and graphical methods of presenting findings.

ETI 2619 Six Sigma Project Management (3.00 Credits)
No Requisites Required
This course provides the concepts and methods for implementing Six Sigma project management utilizing Six Sigma methodologies. The course will cover the aspects of developing projects, managing risk, understanding customers' needs and requirements, estimating costs, developing schedules, integrating cost and schedule controls, and evaluating projects. This course will also utilize a variety of project management tools and performance measures including the model of define, measure, analyze, improve, and control (DMAIC).

ETI 2623 Lean Systems (3.00 Credits)
Prerequisite ETI 1622 with a minimum grade of C
This course provides an overview of Lean concepts with a working knowledge of the tools required to implement and maintain a Lean facility. Course coverage includes mistake proofing, the 5S's for operators, quick changeover, Overall Equipment Effectiveness (OEE), and the kanban system.

ETI 2624 Six Sigma Black Belt Concepts (3.00 Credits)
No Requisites Required
This course addresses the roles and responsibilities required for a Six Sigma Black Belt candidate. This course also covers the advanced six sigma tools beyond those tools using the model of define, measure, analyze, improve, and control (DMAIC). The student will be required to exhibit a mastery of the concepts and tools through projects, exercises and case studies as they apply to both manufacturing and service industries.

ETI 2626 Six Sigma Capstone Project (3.00 Credits)
No Requisites Required
The student will develop a suitable Six Sigma project by utilizing the Six Sigma methodologies. A specific problem or set of problems will be identified and solved using the Six Sigma methods of improvement to deploy on the project. This course will emphasize the different phases of the project to include design, verification, and implementation. The completion of this project requires a written report and a formal presentation of the Six Sigma process.

ETI 2670 Technical Economic Analysis (3.00 Credits)
No Requisites Required
This course defines the economic evaluation of engineering alternatives and analysis of cost allocation in technical operations. Topics include the time value of money and the economic impact of risk, inflation, depreciation, and capital budgeting with applications related to those areas.

ETI 3647 Supply Chain Management (3.00 Credits)
Prerequisite MAN 3504 and (Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to International Business (Bachelor of Applied Science) (INTBUS-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Supply Chain Management (Advanced Technical Certificate with Financial Aid Eligibility) (SCMGT-ATC))
This course builds on the basic concepts learned in operations management in order for students to further understand how to build and implement supply chain or value chain networks. Students learn principles, processes, technologies, strategies, and analytical techniques used to integrate global supply chain management best practices. Emphasis will be on the student developing an enterprise wide and systems view to manage the flow of information, physical distribution, and revenue required to deliver products and services from raw materials through end consumer use (and reverse flow). This course will incorporate basic supply chain management, customer demand management, inventory management, supplier relationship management, and logistic management as they relate to the core aspects of this management practice.

## ETM-Engineering Technology: Mechanical

ETM 1010C Mechanical Measurement (3.00 Credits)
No Requisites Required

This course provides the basic foundation for both mechanical and electronic measurement techniques used in manufacturing environments. The course will integrate the concepts, principles, and techniques of mechanical measurement with the use of various types of instruments including micrometers, verniers, calipers, gages, and other types of measuring equipment. The course will also introduce the student to the basic measurement techniques employing electronic test equipment like multimeters.

ETM 2315C Fluid Power (3.00 Credits)
No Requisites Required
This course is an introduction to the basic hydraulic and pneumatic systems and devices found in advanced manufacturing facilities. The laboratory will reinforce the principles learned through hands-on experiments.

## ETS-Engineering Technology: Speciality

ETS 1407 Survey of Medical Technology (3.00 Credits)
Prerequisite BME 1008C with a minimum grade of C
This course is an exploration of the technology used in a health care setting. Students will explore technology within the context of the hospital including specialty units. Students will learn the general functions of technology and the related physiological functions addressed. Students will develop a lexicon of terminology associated with health care environment. Particular attention is given to safety and regulatory considerations.

ETS 1412C Managing Medical Technology (3.00 Credits)
Prerequisite EET 1084C with a minimum grade of C
This course is designed to introduce the students to the hospital, biomedical equipment manufacturers and the contract maintenance organizations, emphasizing the organizational structure in professional environments and identifies the role of the Biomedical Equipment Technician (BMET) within this framework, with particular emphasis on instrument critiques, electrical safety standards, and new products.

ETS 1511C Motors and Controls (3.00 Credits)
Prerequisite EET 1035C with a minimum grade of C

This course provides a theory of operation of direct current (DC) and alternating current (AC) motors. Major topics include motor components, forces, National Electrical Manufacturers Association (NEMA) ratings, nameplate information, inverter and pulse width moderator drives, AC to DC rectifiers, and signal regeneration for 3-phase systems. Students will apply this knowledge during hands-on laboratory experiments.

ETS 1535C Automation and Sensors (3.00 Credits)
Prerequisite EET 1084C with a minimum grade of C
This course prepares the student for working in the area of process control automation. Lecture and lab assignments provide experience with sensors, level control, flow control, pressure control, temperature control, digital set point and analog processing, and P.I.D. control (piping and instrumentation diagram).

ETS 1542C Programmable Logic Controllers (PLCs) (3.00 Credits)
Pre- or Co-requisite EET 1084C with a minimum grade of C

This course covers fundamental ladder logic, programmable controller theory, application techniques, design and troubleshooting of PLC-based (programmable logic controller) systems in classroom presentations, lab experiments, simulation trainers, and multi-modal software learning labs. Hands-on replications of PLC functions are created and tested in the lab. The labs utilize step-by-step process programming that includes but is not limited to robots, cobots, dies, and integrated circuits.

ETS 2163C Semiconductor Fabrication Process (3.00 Credits)
Prerequisite EET 1084C with a minimum grade of C and Prerequisite ETI 1701 with a minimum grade of C and Pre- or Co-requisite EET 1035C with a minimum grade of C

This course provides essential skills in front-end wafer fabrication and introduces the fundamentals of semiconductor materials along with safe, efficient cleanroom protocols. Students will learn and be able to perform basic cleanroom and wafer-handling protocols, as well as the fundamentals of front-end wafer processing steps. Specifically, the course integrates the steps of wafer fabrication, oxidation and thin film layer deposition, photolithography, etching, ion implantation, doping, cleaning and contamination control, and thermal processing. Students will perform key planned labs on actual semiconductor equipment including the aforementioned steps, and will be able to perform front-end wafer processing, while testing, keeping documentation, and presentation of results after the use of each processing tool. The course also contains cleanroom safety, professional conduct, and technical planning.

ETS 2165C Semiconductor Packaging Fundamentals (3.00 Credits)
Prerequisite ETS 2163C with a minimum grade of C

This course teaches essential skills in the back-end wafer fabrication, as well as the fundamentals of semiconductor packaging and final assembly of integrated circuits in a safe and proper cleanroom environment. Students will learn and be able to perform basic back-end wafer processing steps. Specifically, the course integrates the steps of wafer backgrinding and thinning, wafer dicing, die attach, wire bonding, interconnects, soldered bumps, flip-chip and common advanced packaging, encapsulation and molding, and package substrates and assemblies of integrated circuits. Students will perform key planned labs on actual semiconductor equipment, including the aforementioned steps, and will be able to perform back-end wafer processing, while testing, keeping documentation, and presentation of results after the use of each processing tool. The course also practices cleanroom safety, professional conduct, and technical planning.

ETS 2424C Electro-Mechanical Systems (3.00 Credits)
Prerequisite EET 1084C with a minimum grade of C and Prerequisite BME 1008C with a minimum grade of C and Pre- or Co-requisite EET 1205C with a minimum grade of C
This course teaches the basic concepts of a wide array of biomedical equipment including ultrasound and x-ray device operation, basic troubleshooting techniques, and the use of appropriate test equipment.

ETS 2440C Optics and Imaging (3.00 Credits)
Prerequisite BME 1008C with a minimum grade of C
This course is one of the final core courses in the Biomedical Engineering Technology program. It covers more advanced topics such as lasers, lights, optics, and imaging equipment. This course will introduce students to the wide range of imaging technologies and the theories and practices of how they work.

ETS 2450C Medical Device Networking (3.00 Credits)
Prerequisite CNT 1000 with a minimum grade of C
In this course students will learn concepts related to network communication in the hospital environment. Students will learn the fundamental concepts needed to connect medical technology to a network and common network troubleshooting issues.

ETS 2470C Medical Device Cybersecurity (3.00 Credits)
Prerequisite CNT 1000 with a minimum grade of C
This course reviews cybersecurity concerns in the healthcare field. Students will learn about healthcare computer security, security threats, network vulnerabilities, access controls, HIPPAA, and ways to prepare for cyber-attacks.

ETS 2604C Robotics (3.00 Credits)
No Requisites Required
This course is designed to introduce students to the basic principles of robots. Course content will include classification, operation and programming, maintenance, troubleshooting and applications in the robotics industry. Students will use hands-on practices to become familiar with sections of a robotic system.

ETS 2940 BMET Work Experience (1.00 Credits)
Permission of Program Director

This course is a discipline-related internship providing students with meaningful work experience in a chosen career field. The course is designed to allow students to learn on-the-job as part of their educational program of study under direct supervision of a senior-level Biomedical Equipment Technician (BMET) or clinical engineer. BMET Field Experience will allow students to serve as an entry-level clinical equipment support technician and to provide inventory control, minor repairs, and maintenance of medical equipment technologies, devices, instruments, and systems. This will allow students to utilize knowledge acquired in the classroom and laboratory to evaluate, troubleshoot and repair various types of biomedical equipment. Additionally, students will learn to function in a professional environment. To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

## EUH-European History

EUH 1000 Development of Western Civilization I (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test
This course covers the origins and development of western civilization beginning with the ancient world and classical civilizations, the Middle Ages, the transition to modern states and politics of power, the Protestant and Catholic Reformations, and the Commercial Revolution of the 16th Century. Emphases are on the relevance of the political, social, economic and cultural trends of each period upon our present world society. (Note: This course partially satisfies the writing requirements as outlined in the General Education Requirements).

## EVR-Environmental Studies

EVR 1001C Introduction to Environmental Science (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or Prerequisite Appropriate Scores on the college placement test.

This course is a survey of basic chemical, biological, and physical principles of environmental science and their applications to environmental issues. This course is appropriate for students in a wide range of disciplines or programs. ***State Core Course Description (State Rule 6A-14.0303).*** It applies the basic principles of environmental, ecological and geophysical sciences to relevant problems and topics related to the environmental interaction of humans with the earth. The course is designed to highlight current environmental concerns in modern society and to explore potential solutions. This course will also cover sustainability definitions, assessment and actions from a multidisciplinary perspective to help learners create a personal definition that will inform their actions. The course will examine the environmental, economic, and social dimensions of environmental science. Environmental principles, policies, and programs will be explored on the local, national and global level. **This course satisfies the Natural Sciences General Education Core.**

EVR 1016 Hazardous Waste/ Materials Management (3.00 Credits)
Prerequisite CHM 1025 and Prerequisite CHM 1025L and Prerequisite EVR 1858 and ((Prerequisite EVR 1001C or Prerequisite EVS 1001) or Permission of the Program)
This course is intended to provide multiple aspects of hazardous waste and materials management. The student will develop familiarity with local, state, and federal regulations that govern waste; discuss internal and external environmental site audits; and examine future trends in the generation, treatment, and storage of wastes. Emphasis will be placed on generation of hazardous wastes; treatment and reuse to reduce human environmental health risks; and how residual wastes should be stored to minimize health risks. Mechanisms of how wastes cause disease and environmental resource degradation will be presented.

EVR 1017 Ecosystems and Societies - IB 4 (3.00 Credits)
No Requisites Required
Ecosystems and Societies - IB score of 4

EVR 1018 Ecosystems & Societies IB Score of 5-7 (3.00 Credits)
No Requisites Required
EVR 1018 and EVR 1999 for a minimum of 6 credits

EVR 1263 Urban Pollution (3.00 Credits)
(Prerequisite EVR 1001C with a minimum grade of C or Prerequisite EVS 1001 with a minimum grade of C) and ((Prerequisite CHM 1025 with a minimum grade of C and Prerequisite CHM 1025L with a minimum grade of C) or Permission of the Program)
This course is intended to provide an overview of urban pollution issues in a historical context and through examining current urban pollution priorities. Topics covered include the history of environmental services in urban America related to wastewater sanitation, water supply contamination, public refuse management, industrial waste impacts, air pollution, and surface water issues. An in-depth examination of advancements in environmental technological, management practices, and public service related to these topics will be pursued to achieve the requisite knowledge of urban pollution.

EVR 1310 Renewable Energy Resources, Energy Efficiency and Conservation Methods (3.00 Credits)
Prerequisite EVR 1001C or Prerequisite EVS 1001 or Permission of the Program
This course is intended to provide an overview of energy resources with special attention to the leading renewable energy resources. Topics covered include the science of energy, historical context of energy use and policy, energy efficiency and conservation strategies, and a survey of all sources of energy (e.g., fossil fuel, nuclear, and renewable). An in-depth examination of recent advancements that include the environmental, economic, and social impacts of renewable energy will be pursued to achieve the requisite knowledge of energy issues.

EVR 1328 Natural Resources Conservation and Management (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite MAT 0028 and Prerequisite REA 0017) or (Prerequisite MAT 0028 and Prerequisite EAP 1695)

This course explores the history, major components, status, ecology, conservation, and management of natural resources. Students take a critical look at conservation techniques and management of various conservation policies and programs.

EVR 1357 Wetland Resources (3.00 Credits)
((Prerequisite ENC 0025 with a minimum grade of C and Prerequisite REA 0017 with a minimum grade of C and Prerequisite MAT 0028 with a minimum grade of C) or (Prerequisite EAP 1695 with a minimum grade of C and Prerequisite MAT 0028 with a minimum grade of C) or appropriate score on the college placement test.) and Pre- or Co-requisite EVR 1001C with a minimum grade of C
This course will introduce the student to the ecology and management of wetlands habitats. It will introduce the physical, biological and chemical factors that influence wetlands, as well as variations in these factors that serve to differentiate different wetlands types. The course will also introduce past and present representative legislation that impacts wetland preservation and management.

EVR 1858 Environmental Regulation and Compliance (3.00 Credits)
(Prerequisite ENC 0025 Prerequisite REA 0017 Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite MAT 0028) or Permission of the Program
This course is intended to provide an overview of environmental regulations and compliance issues related to current environmental law. Topics covered include the history and foundation of environmental regulations, current and possible future regulations and the manner in which compliance is achieved at local, state and federal levels. An in-depth examination of the applicable regulations and administrative compliance with administrative structure will be pursued to achieve the requisite knowledge of environmental issues.

EVR 2892C Environmental Sampling and Analysis I (3.00 Credits)
(Prerequisite EVR 1001C with a minimum grade of C or Prerequisite EVS 1001 with a minimum grade of C) and ((Prerequisite CHM 1025 with a minimum grade of C and Prerequisite CHM 1025L with a minimum grade of C) or Permission of the Program)
This course is intended to build student knowledge, skills and experience in environmental sampling and analysis. Topics included are the Florida Department of Environmental Protection standard operating procedures for the collection of surface water, groundwater, wastewater, potable water systems, and sediment. Hands-on field activities will complement class room exercises related to these topics to achieve the requisite knowledge of environmental sampling and analysis.

EVR 2910 Undergraduate Research in Environmental Science (1.00 Credits)
Prerequisite EVR 1001C with a minimum grade of C and Permission of the Program
Students (individually or in a group) design, conduct, analyze and present environmental science research that is proposed by the student. A full-time professor will provide supervision and guidance. The course is intended to help students acquire skills in applying research principles and obtain practice in data collection and reporting. The research project is recommended by a full-time faculty member to the Academic Chair. Upon approval by the Academic Chair, the proposal is forwarded to the Dean, Natural Sciences for approval. (Note: This course may be taken up to 6 times for a total of 6 credits.)

EVR 2930 Special Topics in Environmental Science (1.00 Credits)
Prerequisite EVR 1001C with a minimum grade of C and Prerequisite EVR 1328 with a minimum grade of C
This course is an open format course designed to address the needs and interests of students and provide an opportunity to either obtain industry certification or prepare for an industry certification exam as it relates to the environmental field. Topics may vary from semester to semester. (Note: This course may not be repeated for credit towards major requirements).

EVR 2949 Co-op Work Experience (2.00 Credits)
Permission of the Program

This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. (Note: The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments). To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

EVR 4027C Wetlands (3.00 Credits)
Prerequisite PCB 3043 with a minimum grade of C and Prerequisite PCB 3043L with a minimum grade of C

This course is designed to introduce physical, biology and chemical properties and ecology of wetlands, examine the distribution and functions of wetlands, apply wetland delineation methods for classifying the existence of wetland types and boundaries, and consider wetland conservation and policies. This course is intended to facilitate the student's ability to become certified as a Professional Wetland Scientist by the Society of Wetland Scientists. At a minimum, the course will serve as a basis of understanding wetland ecology and gain skills in practical field techniques. Emphasis is on Florida wetlands and wetland protection laws.

## FES-Fire and Emergency Services

FES 3003 Political and Legal Foundations for Fire Protection (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This course will provide the student with an overview of society's need for planning for disastrous situations. This course examines the legal aspects of the fire service and the political and social impacts of legal issues. This course includes a review of the American legal system and in-depth coverage of legal and political issues involving employment and personnel matters, administrative and operational matters, planning and code enforcement, and legislative and political processes with regard to the fire service.

FES 3015 Advanced Fire Administration (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This is an executive level course introducing the student to the concepts and processes of fire service administration. The course will prepare the student for upper level fire service management. The course will focus on modern fire protection, resource management, fire prevention, and support services including intergovernmental coordination.

FES 3533 Community Fire & Risk Reduction (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This is an executive level course introducing the student to the concepts and process of fire and risk reduction within a community. The course will prepare the student to study the community, assess community risks, develop supporting networks, develop strategies for intervention, action plans, and perform risk reduction program evaluation.

FES 3780 Analytical Approaches to Public Fire Protection (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This course examines tools and techniques of rational decision making in fire rescue departments, including the use of databases, statistics, probability, decision analysis, utility modeling, resource allocation, cost-benefit analysis, and linear programming.

FES 3823 Planning Methodology for Hazard Mitigation (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Emergency Management (Advanced Technical Certificate with Financial Aid Eligibility) (EAM-ATC)
This course will provide the student with an overview of society's need for planning for disastrous situations. The lessons will discuss the best practice and proper methodologies required when developing land for farming or construction and disaster preventative measures. The course will also focus on mitigation measures which are required to reduce risk from natural and technological hazards. In addition, the course will provide the student with an understanding of interagency cooperation between emergency responders such as fire departments, police departments, and emergency medical personnel and the emergency manager to prevent or reduce injury and damage from a disaster.

FES 3833 Emerging Issues in Environmental Disaster Management (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Emergency Management (Advanced Technical Certificate with Financial Aid Eligibility) (EAM-ATC)
This course will provide the student the opportunity to analyze many man-made and natural disasters. The focal point is to infuse each disaster with the role of today's Emergency Manager. This course will examine the response of an Emergency Manager to a disaster and the subsequent impact on other agencies. In addition, students will be introduced to methodologies dealing with disasters and the integration of other emergency responders, such as fire departments, police departments and emergency medical services.

FES 4014 Evolution of Emergency Management (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Emergency Management (Advanced Technical Certificate with Financial Aid Eligibility) (EAM-ATC)
This course examines the history and the principles establishing Emergency Management in the United States. It describes the "Four Phases of Emergency Management," relates processes to codes and laws governing Emergency Management, and examines Emergency Management and the terrorist threat.

FES 4585 Fire Prevention Organization and Management (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS)
This course will provide the student with an overview of society's need for planning for disastrous situations. This course reviews fire prevention background and concepts; non-governmental fire prevention functions; government fire prevention efforts; preparation of fire prevention personnel; fire prevention through building and fire safety codes; effective fire prevention inspection; human reaction to fire emergencies; public fire education; research in fire prevention; international fire prevention practices; evaluation of fire safety efforts; cause determination; and arson suppression.

## FFP-Emergency Administration and Management/Fire Fight

FFP 0030 Basic Firefighter I (0.00 Credits)
Prerequisite Physical Abilities Test (PAT) - Pass and (Prerequisite Emergency Medical Responder Certification or Prerequisite Emergency Medical Technician Certification or Prerequisite Paramedic Certificate [Not required for FFEM Combo PSAV])
This course presents the history of the fire service, firefighter safety and health, communications, building construction, the science of fire, personal protective equipment, fire extinguishers, ropes and knots, ladders, ventilation, water supply, hose handling, fire streams and fire control, property conservation, scene safety, forcible entry, and fire and life safety initiatives. This course is the first part of the State Firefighter Minimum Standards basic recruit academy and is followed by FFP 0031 Firefighter II.

FFP 0031 Basic Firefighter II (0.00 Credits)
Prerequisite FFP 0030
This course presents information on fire department communications, reporting requirements, building construction hazards, structural collapse, rescue and extrication, maintenance of electric generators and lighting equipment, service testing fire hose, fire-fighting foam, coordinating fire ground operations, advanced origin and cause, fire protection systems, conducting private dwelling fire safety surveys, incident command system, Florida Statewide Emergency Response Plan (SERP), air monitoring, emerging challenges for firefighters, and firefighter safety and survival. Students who successfully complete Firefighter I & II or SPC's FFEM Combo Vocational Certificate Program will become eligible to take the written and practical competency tests for Firefighter II which are administered by the State Fire Marshal's Bureau of Fire Standards and Training.

FFP 1000 Fundamentals of Fire Protection (3.00 Credits)
No Requisites Required

Fire Academy articulation course. Not an SPC course, set up for articulation purposes only.

FFP 1103 Florida Incident Safety Officer (3.00 Credits)
No Requisites Required
This course will cover both national and Florida specific information relating to an Incident Safety Officer. Topics include: The Safety Officer's Role; Safety Concepts; Regulations, Codes, Laws, Standards and Procedures; Designing an ISO System; Professional Development; Reading Buildings, Smoke, Risk, Hazardous Energy, and Firefighters; Triggers, Traps and Working within ICS; Basic Approach to ISO Duties; ISO at Structure Fires, Wildland Fires, Haz Mat Incidents and Technical Rescues; and Post incident. 47 contact hours.

FFP 1104 Legal Issues for Safety Officers (3.00 Credits)
No Requisites Required
Upon completion of this course, the student will be able to identify the applicable Florida statutes and rules pertaining to safety and Line of duty deaths, explain the basic concepts of our legal system, the components and procedures regarding the conduct of an investigation, an understanding current litigation trends and the consequences of unsafe operations.

FFP 1109 Fire Department Occupational Safety and Health (3.00 Credits)
No Requisites Required
This course is a study of the guidelines for establishing an occupational safety and health program for a fire department, plus safety procedures for members involved in rescue, fire suppression, and related activities. Emphasis is placed on performance objectives, and not a single correct way to achieve compliance. The guidelines discussed in the course are flexible, so students can customize an occupational safety and health program that will meet their specific needs.

FFP 1111 Fire Chemistry (3.00 Credits)
No Requisites Required
This course is a study of basic physical and chemical properties of materials applicable to the chemistry of fire. Emphasis is on emergency situations and the most favorable methods of handling incidents involving hazardous material.

FFP 1505 Fire Prevention (3.00 Credits)
No Requisites Required
This course is a survey of the principles of fire prevention and investigation. It includes a study of fire hazards in various occupancies; a review of fire prevention codes; a study of procedures and techniques of fire prevention inspection, public relations, methods of determining the area of fire origin, fire cause, fire spread and location and preservation of evidence.

FFP 1540 Private Fire Protection Systems I (3.00 Credits)
No Requisites Required
This course is a survey of fire protection systems and domestic water supply. The operational feature and functional characteristics of fire detection and suppression systems and devices will be studied.

FFP 1823 Technical Applications in Emergency Management (3.00 Credits)
Prerequisite Computer Competency met.
This course provides optional methods of managing both internal and external information. It explores information gathering, organization and data systems. Topics include warning and communications systems, and crisis communications. It also provides a study of advanced applications of personal computers in emergency management including detailed analysis and application of current emergency management software.

FFP 1830 Introduction to Hazards (3.00 Credits)
No Requisites Required
This course provides an in-depth study of the details and dynamics of natural and man-made hazards. This course includes methods and means to measure, monitor and predict the physical impact of hazards on society.

FFP 2120 Building Construction for the Fire Service (3.00 Credits)
No Requisites Required
This course examines the various types and methods of building construction and their influence on fire travel and life safety. Fire resistance of building materials and problems inherent in new construction as well as existing buildings are examined closely.

FFP 2510 Fire Codes and Standards (3.00 Credits)
No Requisites Required
This course is a study of building and life safety codes in relation to types of occupancies, building design, fire resistance of building materials, fire problems inherent in structures and life safety considerations. A problem solving emphasis is used to provide opportunities for application of building and life safety code enforcement methods to prevent and correct building design problems.

FFP 2521 Blueprint Reading and Plans Review (3.00 Credits)
No Requisites Required
This course is a comprehensive study of building construction blueprints and plans. The course will teach the student how to assimilate information contained in construction working drawings, specifications, interpreting conventional graphic communications, and accepted standards and conventions related to fire protection and prevention inspections.

FFP 2541 Private Fire Protection Systems II (3.00 Credits)
Prerequisite FFP 1540
This is a survey of pre-engineered and portable systems, extinguishing agents, inspection procedures for code compliance and enforcement, and alarm systems.

FFP 2706 Fire Service Public Information Officer (3.00 Credits)
No Requisites Required
This course prepares the student to serve effectively as an organizational spokesperson, according to the current practices in the profession of public relations in relationship to the Fire Service. Particular emphasis will be placed on case studies in crisis communications and the role of the Public Information Officer (PIO) in the Incident Management System (IMS).

FFP 2720 Company Officer (3.00 Credits)
No Requisites Required
This course is a study of the basic concepts of fire company leadership, including the human skills, leadership tools, problem solving, and goal achievement of a company officer. Emphasis will be placed on the role of the officer in the setting of the fire company.

FFP 2740 Fire Service Course Delivery (3.00 Credits)
No Requisites Required
This course is a study of the instructor's responsibility in idea communication, learning and teaching concepts, job analysis, teaching objectives and instructional aids use. This course is required to become eligible to sit for the Florida State Fire Officer certification exam.

FFP 2741 Fire Service Course Design (3.00 Credits)
No Requisites Required
This is a course of study of how to develop courses based on nationally applicable performance standards for uniformed fire service personnel and to provide the knowledge, skill, and ability to develop a training curriculum.

FFP 2770 Ethical and Legal Issues for the Fire Service (3.00 Credits)
No Requisites Required
This course introduces the federal, state, and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of relevant court cases.

FFP 2800 Emergency Management Public Education Programs (3.00 Credits)
No Requisites Required
This course provides a study of the design, development and delivery of public disaster safety education and programs including: methods of identification of disaster safety programs; the selection of target programs and strategies to affect reduction; methods of designing and implementing information and education programs; methods of evaluating a program's impact. Studies include theoretical and practical skills training in individual, group and mass media communications, instructional skills, planning priorities, and evaluation techniques.

FFP 2801 Fundamentals of Emergency Management (3.00 Credits)
No Requisites Required
This course provides a study of emergency management systems including the following: career opportunities; tasks and responsibilities of the emergency management program manager; emergency management function; role of the emergency manager in mitigation, preparedness, response, and recovery (short and long term). It also provides a study of past civil defense and current emergency management systems since its evolution from World War II.

FFP 2810 Firefighting Tactics and Strategy I (3.00 Credits)
No Requisites Required
This course is a study of the basic concepts involved in fire fighting, including the behavior, fire fighting fundamentals and principles of extinguishment; the proper role for a utilization of various fire companies and pre-planning fire problems. This course is required to become eligible to sit for the Florida State Fire Officer certification exam.

FFP 2811 Firefighting Tactics and Strategy II (3.00 Credits)
No Requisites Required
This course is a study of the principles utilized on the fire ground for maximum manpower and equipment utilization and fire ground administration at all levels from a small fire through major conflagrations. Emphasis will be on developing critical thinking in relation to crises.

FFP 2831 Hazard Mitigation (3.00 Credits)
No Requisites Required
This course provides the student specialized knowledge and skills necessary to develop programs that will reduce losses from future disasters, emergencies, and other extreme events caused by natural and man-made hazards.

FFP 2840 Disaster Recovery Operations (3.00 Credits)
No Requisites Required
This course provides the student specialized knowledge and skills necessary to develop programs and activities associated with providing disaster recovery assistance and mitigation actions that will reduce losses from future disasters.

FFP 2841 Contingency Planning for Business and Industry (3.00 Credits)
No Requisites Required
This course focuses on the contingency planning process for disaster preparedness in the corporate world. The student will develop a step-by-step approach to emergency planning, response and recovery for companies of all sizes.

FFP 2881 Emergency Management Leadership and Administration (3.00 Credits)
No Requisites Required
This course provides the student knowledge and skills necessary for effective interpersonal relationships, including conflict management and the use of power and influence as they apply to emergency administration and leadership. The course also addresses the budget process and other related administrative duties of an emergency management program manager.

FFP 3785 Chief Officer (3.00 Credits)
No Requisites Required
The Fire Chief Officer course will present the principles of management theory and its application to the fire service. The course will cover topics such as communications, professional development, community and intergovernmental relations, human resources, legal issues, strategic planning, public education, budget and financial issues, and emergency management.

## FIL-Film

FIL 2030 Film History (3.00 Credits)
Prerequisite ENC 0025 or Prerequisite EAP 1695 or Prerequisite appropriate score on the SPC placement test
This is a survey course designed to help students gain an in-depth knowledge of the history of motion pictures and to understand the development of film and its influences over time. Students will view films ranging from silent masterpieces through current classics. The course will introduce technological developments as well as cultural and thematic developments in mass culture over time. (Note: This course has a substantial writing requirement).

FIL 2100 Motion Picture Writing I (3.00 Credits)
Prerequisite ENC 1101 or Prerequisite ENC 1101H or Prerequisite IDS 1101H
This course is designed to teach the techniques of motion picture writing, proceeding from concept to film treatment to script (short or feature length), utilizing the five-part story structure. It is intended for students interested in understanding and writing film scripts. Emphasis is on classic film genres: psychological thriller, action adventure, detective, science fiction, romance, and film noir.

FIL 2130 Motion Picture Writing II (3.00 Credits)
Prerequisite FIL 2100
This course is designed to help students gain an in-depth knowledge of the techniques of motion picture writing and implement these techniques in original work of their own. Students will work on already existing story concepts, polish and/or revise story structure, dialogue, and action sequences, and complete a film screenplay. The course also offers students the opportunity to learn how to market their ideas and screenplays. (Note: This course has a substantial writing requirement.)

## FIN-Finance

FIN 1100 Personal Finance (3.00 Credits)
No Requisites Required
This course is a study of consumer buying practices, management of personal and family finances, spending income wisely, consideration of buying guides and consumer protection agencies.

FIN 2000 Principles of Finance (3.00 Credits)
No Requisites Required
This course is a survey of finance. Emphasis is placed on current problems of finance and the development of basic principles. The major topics of study include the concept of money, monetary and credit systems, money and capital markets, time value of money, and characteristics of stocks and bonds.

FIN 3400 Introduction to Financial Management (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS)

This is an introductory course in managerial finance in which the student will understand foundational finance topics and how they apply to financial decision-making within the firm. Topics include the role of finance and financial markets, financial statement analysis, time value of money, risk and return, and capital budgeting decision tools.

FIN 3403 Financial Management (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)

College Algebra is recommended. This is an introductory course in financial analysis and decision-making from a management perspective. Topics include financial statement analysis, financial planning and forecasting, time value of money with analysis and computation tools, risk and rates of return, asset valuation, capital budgeting, and miscellaneous financial decision-making tools and methods.

FIN 4140 Personal Financial Planning (3.00 Credits)
Prerequisite FIN 3403 with a minimum grade of C and Admission to Business Administration (Bachelor of Science) (BUS-BS)
This course examines the nature and principles of individual wealth creation and preservation. The course introduces principles for consumer financial decision making and personal money management. It will also cover the characteristics and appropriate application of modern tax, risk management and insurance, money management, investment, retirement, and estate planning tools and methods.

FIN 4323 Bank Operations & Management (3.00 Credits)
Prerequisite FIN 3403 with a minimum grade of C and Admission to Business Administration (Bachelor of Science) (BUS-BS)
This course will provide a managerial examination of the major operating functions of the banking industry. Emphasis will be on the student developing a solid foundation from a managerial perspective of money and interest, deposits, negotiable instruments, bank loans, mortgages, commercial lending, specialized services, security, and ethics.

FIN 4414 Advanced Financial Management (3.00 Credits)
Prerequisite FIN 3403 with a minimum grade of C and Admission to Business Administration (Bachelor of Science) (BUS-BS)

This is an advanced course in financial analysis and decision-making from a corporate management perspective. Students will enhance their time value of money and capital budgeting skills and build a broader foundation of corporate finance knowledge. Advanced topics include financial leverage, capital structure, dividend payout policies, mergers and other special topics in finance.

FIN 4470 Entrepreneurial Finance (3.00 Credits)
(Prerequisite FIN 3400 with a minimum grade of C and Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS)) or (Prerequisite FIN 3403 with a minimum grade of C and (Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS)))
This course enhances the financing skills required for the successful entrepreneur. This course provides the essential tools and knowledge needed to build a solid financial foundation for a profitable business. It will provide students with the finance and business strategies for an entrepreneurial venture.

FIN 4504 Investments (3.00 Credits)
Prerequisite FIN 3403 with a minimum grade of C and Admission to Business Administration (Bachelor of Science) (BUS-BS)
This course examines the nature of the modern capital markets, investments, and portfolio management. It is intended to blend theory with appropriate application to create strategies to achieve successful value creation. The characteristics and valuation of equity, fixed income, and derivative securities will be addressed.

FOS 2201 Food Safety and Sanitation (3.00 Credits)
No Requisites Required

The Food Safety and Sanitation course provides participants with a comprehensive understanding of the essential concepts and procedures necessary to maintain a safe and hygienic food environment. Designed for individuals in the food service industry and those interested in understanding the importance of food safety, this course covers a range of topics crucial to preventing foodborne illnesses and maintaining high standards of cleanliness. Participants will learn about personal hygiene, cross-contamination prevention, time and temperature control, proper food receiving and storage procedures, and effective pest control measures. Throughout the course, participants will engage in interactive discussions, case studies, and practical exercises to reinforce their understanding of key concepts. By the end of the course, participants will possess the knowledge and skills needed to promote a safe and hygienic food environment, mitigate foodborne risks, and uphold the highest standards of food safety and sanitation.

## FRE-French Language

FRE 1120 Elementary French I (4.00 Credits)
No Requisites Required
This course introduces students to the four skills (listening, speaking, reading and writing) of the French language and teaches students to appreciate the cultures of French speaking countries. (Note: Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

FRE 1121 Elementary French II (4.00 Credits)
Prerequisite FRE 1120 or Permission of the Program
This course reinforces the basic French language skills previously acquired. The course further develops listening, speaking, reading and writing skills as well as an understanding and appreciation of the cultures of French-speaking peoples. (Note: Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

FRE 2200 Intermediate French I (3.00 Credits)
Prerequisite FRE 1121 or Permission of the Program
This course expands and reviews the previously acquired French language skills and includes more advanced language structures and idiomatic expressions, with emphasis on conversational skills. Enhancing vocabulary for practical purposes, including writing is emphasized. A variety of reading selections will be introduced. (Note: Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

## FSE-Funeral Services

FSE 1000 Introduction to Funeral Services (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test.
This course provides an orientation to the profession of funeral services. Topics include the historical role of funeral service from pre-Christian to modern times, functional role of the funeral service practitioner, sociology of funeral service, current and future trends, and funeral service organizations. Emphasis will be on the development of funeral service practices in the United States.

FSE 1010 Funeral Ethics (1.00 Credits)
Admission to Funeral Services (Associate in Science) (FUNSE-AS) or Admission to Funeral Arts (Advanced Technical Certificate with Financial Aid Eligibility) (FUNAT-ATC) or Prerequisite program director approval for the direct disposer applicant
This course is designed to help the student of funeral service to develop a strong professional set of ethics. This knowledge will help the funeral service professional do what is proper and in the best interest of the family when they are most vulnerable. Moreover, proper training in ethics will sensitize the funeral service professional to the need to build a trust and rapport with the family. This background will facilitate the often difficult task of planning funeral arrangements, both pre-need and at need, easier. These skills will also help the funeral service professional to further consider the needs of the bereaved beyond the scope of the funeral home and direct them to appropriate professionals and agencies. In essence, this course strives to develop within the funeral service student a sense of morality, which will guide his/her decisions and actions in proper treatment of the deceased and professional service to the bereaved.

FSE 1105 Thanatochemistry (2.00 Credits)
(Admission to Funeral Services (Associate in Science) (FUNSE-AS) and Pre- or Co-requisite FSE 1150 with a minimum grade of C) or Permission of the Program
This course is a survey of the basic principles of disinfection and preservation as they relate to embalming. Especially emphasized are the chemical principles involved in sanitation, disinfection, and embalming practice. The development and use of personal, professional, and community sanitation practices is addressed as well as use and precautions related to potentially harmful chemicals that are currently used in the field of funeral service.

FSE 1150 Cremation History, Principles and Practice (2.00 Credits)
(Admission to Funeral Services (Associate in Science) (FUNSE-AS) and Prerequisite Completion of program orientation) or Admission to Funeral Arts (Advanced Technical Certificate with Financial Aid Eligibility) (FUNAT-ATC) or Permission of the Program
This course will introduce the student to cremation as it relates to funeral service. This is a survey-level course that assumes no prior knowledge of cremation. Topics covered will include the legal environment surrounding cremation, utilization of cremation Best Practices, crematory equipment, and the history of cremation.

FSE 1204 Funeral Services Computer Applications (1.00 Credits)
(Admission to Funeral Services (Associate in Science) (FUNSE-AS) or Admission to Funeral Arts (Advanced Technical Certificate with Financial Aid Eligibility) (FUNAT-ATC)) and Pre- or Co-requisite FSE 1150
Computer competency is highly recommended to be successful in this course. This course introduces students, through a hands-on approach, to the basic computer applications, which are part of the day to day operations of the funeral home.

FSE 2060 Funeral Directing (3.00 Credits)
(Admission to Funeral Services (Associate in Science) (FUNSE-AS) and Pre- or Co-requisite FSE 1150 with a minimum grade of C) or Admission to Funeral Arts (Advanced Technical Certificate with Financial Aid Eligibility) (FUNAT-ATC)
This course will examine the responsibilities of the funeral director from the first call until the last service rendered to the family. The course will cover various religions, fraternal, military, secular, and traditional funeral customs. The funeral director's role as a counselor is emphasized.

FSE 2061 Thanatology (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test
This course emphasizes the psychological and sociological dynamics of death, dying, and bereavement and the funeral director's role in counseling families through the process. Students will study the symbolic and ritualistic aspects of memorialization and their impacts upon the emotional experience of the bereaved. A clear understanding of the grief process and its variations among individuals as influenced by psychological factors is addressed. The course also addresses the funeral director as a facilitating agent for effective mourning through personal interaction and the design and implementation of the funeral.

FSE 2080 Funeral Law (3.00 Credits)
(Admission to Funeral Arts (Advanced Technical Certificate with Financial Aid Eligibility) (FUNAT-ATC) or Admission to Funeral Services (Associate in Science) (FUNSE-AS)) and Pre- or Co-requisite FSE 1150 with a minimum grade of C
This course will include legal methods of disposition, legal responsibilities of the funeral practitioner, common and statutory laws, Florida laws regulating funeral practices and establishments, crematory and cemetery laws, and probate laws for estates.

FSE 2100 Embalming I (3.00 Credits)
(Admission to Funeral Services (Associate in Science) (FUNSE-AS) and Pre- or Co-requisite FSE 2101L with a minimum grade of C) or Permission of the Program
This course introduces the student to embalming through a study of the history, fundamentals, legal aspects, methods, terminology, sanitation, and preservation of human remains.

FSE 2101L Embalming Clinical I (1.00 Credits)
Admission to Funeral Services (Associate in Science) (FUNSE-AS) and Pre- or Co-requisite FSE 2100 and Pre- or Co-requisite FSE 1150
This course provides the student with learning activities, which will include selected experiences in the funeral home preparation room. (Note: Forty (40) hours of participation in the clinical setting are required to complete this course).

FSE 2120 Restorative Art (3.00 Credits)
Admission to Funeral Services (Associate in Science) (FUNSE-AS) and Prerequisite FSE 2100 with a minimum grade of C and Prerequisite FSE 2101L with a minimum grade of C and Pre- or Co-requisite FSE 2120L
This course is designed to provide the student with the theories applied in restorative art procedures. The student will study the anatomical structure of the cranial and facial areas of the human skull, facial proportions and markings, methods and techniques used to restore facial features destroyed by traumatic or pathological conditions, and color and cosmetology theory.

FSE 2120L Restorative Art Lab (1.00 Credits)
Admission to Funeral Services (Associate in Science) (FUNSE-AS) and Pre- or Co-requisite FSE 2120
This course is a laboratory study of the anatomy of the human face with emphasis on developing the skills and procedures used in restorative art.

FSE 2140 Embalming II (3.00 Credits)
Admission to Funeral Services (Associate in Science) (FUNSE-AS) and Prerequisite FSE 2100 with a minimum grade of C and Prerequisite FSE 2101L with a minimum grade of C and Pre- or Co-requisite FSE 2141L
This course is a continuation of Embalming I (FSE 2100). Theories and principles of embalming, embalming chemicals, cavity treatments, and disaster management will be studied with an emphasis on application to specific cases.

FSE 2141L Embalming Clinical II (1.00 Credits)
Admission to Funeral Services (Associate in Science) (FUNSE-AS) and Prerequisite FSE 2100 with a minimum grade of C and Prerequisite FSE 2101L with a minimum grade of C and Pre- or Co-requisite FSE 2140
This course provides the student with learning activities which will include selected experiences in the funeral home preparation room. Application of embalming principles to specific cases is emphasized. (Note: Forty (40) hours of participation in the clinical setting are required to complete this course).

FSE 2160 Funeral Pathology (3.00 Credits)
Admission to Funeral Services (Associate in Science) (FUNSE-AS) and Prerequisite HSC 1524 and Prerequisite FSE 2100 with a minimum grade of C
This course is designed to introduce the student to the study of the cause and effect of disease on the human body. Topics of study will include: coroner and medical examiner, terminology, and general and special pathology. Emphasis will be on tissue changes which affect the embalming process.

FSE 2201 Funeral Home Management Operations (3.00 Credits)
Prerequisite FSE 2202 and (Admission to Funeral Services (Associate in Science) (FUNSE-AS) or Admission to Funeral Arts (Advanced Technical Certificate with Financial Aid Eligibility) (FUNAT-ATC))
This course is designed to give the student an understanding of the principles of the operations of a funeral home. Topics of study will include merchandising, casket and vault construction, pre-need and at-need funeral arrangements, funeral services forms, death benefits, and vital statistics. Lecture and laboratory experience in funeral arrangements.

FSE 2202 Funeral Home Management (3.00 Credits)
Prerequisite BUL 2241 with a minimum grade of C and (Prerequisite ACG 2001 with a minimum grade of C or Prerequisite ACG 2021 with a minimum grade of C) and (Admission to Funeral Services (Associate in Science) (FUNSE-AS) or Admission to Funeral Arts (Advanced Technical Certificate with Financial Aid Eligibility) (FUNAT-ATC)) and Pre- or Co-requisite FSE 1150 with a minimum grade of C
This course is the study of the role and function of the funeral director as an effective manager. Emphasis is placed on small business management functions of planning, organizing, motivation, direction, and controlling in the funeral home setting.

FSE 2930 Funeral Services Professional Review (1.00 Credits)
Admission to Funeral Services (Associate in Science) (FUNSE-AS) and Pre- or Co-requisite FSE 2060 and Pre- or Co-requisite FSE 2201 and Pre- or Co-requisite FSE 2140 and Pre- or Co-requisite FSE 2120 and Pre- or Co-requisite FSE 2080 and Pre- or Co-requisite FSE 2160 and Prerequisite FSE 1150 with a minimum grade of C
This seminar type course will review all necessary procedures and requirements for state and national licensure as a Funeral Director and Embalmer.

FSE 2946C Professional Practicum (3.00 Credits)
Permission of the Program and Pre- or Co-requisite FSE 2930 with a minimum grade of C
This course provides experience in the funeral home, under direct supervision of a licensed funeral director/embalmer, applying knowledge of theories and practices of funeral service. The student will perform duties and services as assigned by the preceptor and instructor to include surveillance of, and participation in, execution of total services rendered to the family. Service reports are required to be completed by the student. (Note: This course requires a minimum of 200 hours of supervised funeral home experience).

## FSS-Food Service Systems

FSS 2235C Introductory Food Production Management (3.00 Credits)
No Requisites Required
This course is designed to provide students with fundamental knowledge and skill in basic and intermediate commercial food production management. Included are basic principles and techniques of commercial food preparation, management of resources, use of commercial recipes, use and care of commercial equipment and evaluation of food products. The course includes safety and sanitation practices in commercial food operations.

## GEB-General Business

GEB 1011 Introduction to Business (3.00 Credits)
No Requisites Required

The purpose of this foundational business course is to acquaint students with the tools and vocabulary needed in all aspects of the business world. This course will cover areas such as business ownership, management, marketing, financial services, supply chain management, sustainability/social responsibility, entrepreneurship and project management and how they function together to create value.

GEB 1432 Applied Artificial Intelligence (AI) in Business (3.00 Credits)
No Requisites Required

This survey course offers an applied in-depth exploration of how artificial intelligence (AI) is revolutionizing industries and business functions while providing students with the knowledge to responsibly leverage AI for the workforce and their personal lives. Students will learn about the transformative power of AI while responsibly deploying it. By understanding these applied AI principles, students will be equipped to make informed decisions and drive innovative strategies in the modern business landscape.

GEB 2214 Business Communications (3.00 Credits)
No Requisites Required
Students who successfully complete this course develop the written and oral communications skills needed to function effectively in a business environment. Emphasis is placed on communicating professionally in written correspondence, electronic communications, job applications and interviews, and business presentations and reports. It is recommended that the student possess office application and communication skills before attempting this course. A webcam is required for online students. (Note: This course has substantial writing and presentation requirements).

GEB 2350 Survey of International Business (3.00 Credits)
No Requisites Required
This introductory course in international business is designed to provide an overview of international trade as it relates to: existing and emerging global markets, foreign investments, its impact on financial markets, international marketing, and the operation of multinational corporations.

GEB 2860 Business Administration Capstone (3.00 Credits)
Permission of the Program

This course is designed as the capstone for the A.S. Business Administration degree program. This course will assess the knowledge learned throughout the program and will cover aspects from marketing, management, accounting, international relations, economics, business law, and ethical decision-making. Students will be required to apply this knowledge to develop, complete, and present a business case project using qualitative and quantitative data derived from a real-world business situation. Successful completion of the course is measured by demonstrated mastery of the program's learning outcomes. This course is designed to be completed in the last semester before graduation.

GEB 2940 Business Internship (1.0-4.00 Credits)
Permission of the Program

This course is to be taken after the student has completed 9 credit hours in their major field of study. The purpose of this course is to allow students a "real world" experience with major-related, supervised, evaluated practical work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. Variable credits are available, one to four per course. (Note: The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments. This course may be taken up to 4 times for a total of 4 credits). To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

GEB 3213 Business Communication for Professional Effectiveness (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to International Business (Bachelor of Applied Science) (INTBUS-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Nursing (Bachelor of Science) (NURS-BS)

Strategic communication is crucial within the professional context of organizations. Examining organizational, behavioral, and technical aspects in the workplace gives students the opportunity to utilize communication principles and techniques. Emphasis in this course is placed on the application of theory, development, and practice of communication skills. These skills include communication strategies; interpersonal communication and organizational context; team and leadership communication; social media protocol; and effective proposals and presentations. (Note: Credit is only given for GEB 3213 or COM 3120.)

## GIS-Geography: Information Science

GIS 2040 Introduction to Geographic Information Systems (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite MAT 0028)
This course will introduce the student to the use of Geographic Information Systems (GIS) in spatial data exploration, map layout creation, and data editing and analysis. This is a survey-level course that assumes no prior knowledge of GIS. Topics covered will include the applications of GIS in various fields, the structure of the ArcGIS platform, the use of different tools to explore and modify spatial data, and the analysis of spatial data to answer “real world” questions.

## GLY-Geology

GLY 2010 Physical Geology (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite MAT 0028)

Using the scientific method, critical thinking skills, and data analysis, this course will examine the fundamental processes of the earth's system, composed of an atmosphere, hydrosphere, cryosphere, lithosphere, biosphere, and exosphere through time. The course will also explore interactions between these spheres, including critical analysis of scientific theories and emphasize lithospheric connections with humanity. ***State Core Course Description (State Rule 6A-14.0303).*** **Note: Effective Fall 2024 and forward, students who successfully complete GLY 2010 will satisfy the Natural Sciences Core requirement. If completed prior to Fall 2024, the course will satisfy the Natural Sciences Elective requirement.**

GLY 2010L Physical Geology Lab (1.00 Credits)
Pre- or Co-requisite GLY 2010 with a minimum grade of C

Students will learn the foundational aspects of geology in this engaging laboratory course, designed to complement the Physical Geology class (GLY 2010). This hands-on lab allows students to delve into the practical side of geology. Students will learn to identify minerals and rocks, create and interpret maps, and analyze geological data.

GLY 2100 History of the Earth and Life (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite MAT 0028)
This course is a study of the geologic history of the earth, including concepts of the origin of the continents and the ocean basins, plate tectonics, the major physical events as recorded in the rocks of the continents and the evolutionary changes and processes in animals and plants through time.

## GRA-Graphic Arts

GRA 1206 Typography (3.00 Credits)
No Requisites Required
This course provides the student with information and hands-on experience using type as a design element. The course addresses techniques, applications and problem-solving strategies specific to typographic layout and design. An introduction to electronic typesetting and page layout will utilize software specific to the graphic design industry.

GRA 2160 Computer Animation (3.00 Credits)
(Pre- or Co-requisite ART 1300C with a minimum grade of C or Pre- or Co-requisite DIG 2183 with a minimum grade of C) and Pre- or Co-requisite DIG 1004 with a minimum grade of C
Introduction to the basic tools, techniques and applications of animation. Students will learn to manipulate objects, build models, employ lighting and design movement.

GRA 2201 Advanced Digital Publishing (3.00 Credits)
Prerequisite DIG 2109 and Prerequisite GRA 1206 with a minimum grade of C
This is a computer-based course designed to develop the students' skills in digital publication design. Students will learn through the use of the computer how to develop multiple page layouts, import text and digital images, file management, and output for screen and print production.

GRA 3104C Advanced Visual Design Processes (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and (Prerequisite DIG 2117 with a minimum grade of C or Prerequisite DIG 2311 with a minimum grade of C) and (Prerequisite GRA 1206 with a minimum grade of C or Prerequisite DIG 2284 with a minimum grade of C)

This course addresses advanced topics in graphic design, typography, and visual communication within the framework of an integrated art and design curriculum. Students increase technical skills in the creation of designs including but not limited to communication design, layout design for both print and digital interfaces, illustration, UI/UX, visual identity, and advertising. Students will develop a portfolio of work demonstrating client-focused design choices, technical skill, and professional competency.

GRA 3816C Conceptional Thinking (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and Prerequisite DIG 3823C with a minimum grade of C and Prerequisite DIG 3110C with a minimum grade of C

This course focuses on personal creative problem-solving and strategic thinking that strengthens and expands the student's conceptual processes. Exercises and industry-level projects in creative problem-solving and strategic thinking are employed to develop students' conceptual processes. The focus is on critical analysis, problem identification, and idea refinement.

GRA 4138C Capstone: Digital Media Campaigns (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and Prerequisite GRA 3816C with a minimum grade of C and Prerequisite GRA 3104C with a minimum grade of C and Prerequisite DIG 3293C with a minimum grade of C

In this course students complete a large-scale, comprehensive capstone project in multimedia design. Students use design principles and technological skills developed in previous courses to create all aspects of a cross-platform multimedia campaign. Students focus on research, planning, preproduction, ideation, and iteration as they produce a professional quality, client-focused media campaign.

GRA 4139C Time-Based Design (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and Prerequisite DIG 3293C with a minimum grade of C and Prerequisite DIG 2109 with a minimum grade of C and (Prerequisite GRA 1206 with a minimum grade of C or Prerequisite DIG 2284 with a minimum grade of C)

This course is a further articulation of the techniques and components of time-based media design. Exercises and projects emphasize basic concepts of art and design in time. Students use time and movement, elements of the moving image, serial, sequential, and narrative ordering, moving image editing, sound and image relations, as well as object and event analysis to create time-based designs. Students develop advanced skills in the creation of time-based media as an expressive and communicative art form. Aesthetic, technical, historical, and conceptual issues are addressed through lectures, demonstrations, exercises, projects, screenings, research, and readings.

GRA 4423 Business of Digital Media (3.00 Credits)
Admission to Digital Media (Bachelor of Applied Science) (DIGME-BAS) and Prerequisite GRA 3816C with a minimum grade of C

Through lectures, discussions, and various assignments, students are exposed to legal and business issues affecting graphic artists today. This course explores the ethical and professional standards of conduct and intellectual property issues. Topics such as freelancing, pricing, estimating, invoicing and copyright are examined. Case-studies and role-playing are used to strengthen professional conduct and introduce best practices. An emphasis is placed on the artist-client relationship.

## HFT-Hospitality Management

HFT 1000 Introduction to the Hospitality and Tourism Industry (3.00 Credits)
No Requisites Required
This course is an introduction to the many facets of the hotel-motel and food service industries. The course includes a study of the history, scope and innovations in the industry. The course includes guest lectures from the industry and visits to local hospitality establishments. Students will see the advantages of the hospitality and tourism industry as a career path.

HFT 1300 Housekeeping Operations (3.00 Credits)
No Requisites Required
This course presents a systematic approach to managing housekeeping operations in the hospitality industry. Emphasis is placed on the role of the housekeeping department and understanding the managerial skills necessary to efficiently operate this department.

HFT 1410 Front Office Procedures (3.00 Credits)
No Requisites Required
This course is designed to acquaint the student with front office procedures. Topics include: hotel organizations; front office responsibilities; front office accounting; check-out settlement; night audit; planning and evaluating operations; and revenue management.

HFT 1941 Operations and Service Practicum (2.00 Credits)
No Requisites Required
This course enables students to enhance workplace skills through supervised practical experience. In addition the student must complete assignments including a term project. This course requires practical work experience or participation in a formalized internship program in an approved segment of the hospitality/ restaurant industries. Faculty makes regular appraisals of the learning progress through on-site visitations and consultations with supervisors. (Note: Sixty industry work hours equals one credit hour).

HFT 2265 Food Service Operations (3.00 Credits)
Pre- or Co-requisite HFT 2450
This course covers the basic principles of food service operations with topics including: menu development; dining service styles and procedures; beverage service styles and procedures; service equipment and supplies; facility layout, décor, cleaning and maintenance; casual/theme restaurants; banquets and catered events; room service; food service in related hospitality facilities such as academic, military and quick food.

HFT 2450 Hospitality Cost Controls (3.00 Credits)
Prerequisite HFT 1000
This course is the study of cost controls for food and beverage operations, purchasing, receiving, storage, preparation and service. Emphasis is on controlling, analyzing costs, and using financial management techniques.

HFT 2600 Hospitality Law (3.00 Credits)
No Requisites Required
This course is designed to acquaint students with the legal aspects of hotel, food and travel acquisition. The student will learn: historical legal definitions and the court system; the legal relationships of the innkeeper-guest; the legal obligations of a hotel to a guest; the "duty" owed guests by the owner; the liabilities and right of restaurateurs and beverage operators and emerging areas of concern.

HFT 2750 The Event Industry (3.00 Credits)
Pre- or Co-requisite HFT 1000 with a minimum grade of C
The Event Industry is an introductory course designed to familiarize students with an overview of the meeting, incentive, convention, and exhibition (MICE) industry. The course explores the various roles of businesses and careers associated with the event industry.

HFT 2772 Introduction to Cruise Line Industry (3.00 Credits)
No Requisites Required
This course is designed to familiarize students with an overview of cruise line vessels including: ship motion and propulsion, design, crew, food & beverage, operations, safety, and security.

HFT 2942 Hospitality Internship (3.00 Credits)
Prerequisite HFT 1941 with a minimum grade of C and Permission of the Program

This course enables students to enhance workplace skills through supervised practical experience. Sixty (60) industry work hours equal one credit hour. In addition, the students must complete assignments as well as a term project. Faculty make regular appraisals of the learning progress through on-site visits and consultations with supervisors. To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

## HIM-Health Information Management

HIM 1000 Introduction to Health Information Management (2.00 Credits)
Prerequisite MAT 0028 with a minimum grade of C and Permission of the Program and (Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT) or Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT))
This course is an introduction to the health information management department, the role of the health information technician as a member of the health care team and the health information professional organization. Content to be addressed includes the fundamentals of health information practice, content and format of various types of medical records, numbering and filing systems, and health care data sets.

HIM 1005 Healthcare Informatics Project Management (2.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT)) and Pre- or Co-requisite HIM 2652 with a minimum grade of C
This course provides an overview of healthcare informatics project management and introduces the concepts necessary to identify the major components that lead to the successful completion of an healthcare informatics project. Concepts include project planning; tracking and implementation; task delegation; time, money, and outcomes management of projects.

HIM 1101 HIM Standards and Practice (3.00 Credits)
(Prerequisite Developmental math met or appropriate scores on the College Placement test. and Permission of the Program) and (Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT) or Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT))
This course is an introduction to the health information management department, the role of the health information technician as a member of the health care team. Content to be addressed includes the fundamentals of health information practice, content and format of various types of medical records, numbering and filing systems, and health care data sets.

HIM 1102 Introduction to Healthcare Informatics (2.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT)) and Prerequisite CGS 1100 with a minimum grade of C and Permission of the Program
This course studies the collection and organization of patient health information, the effective management of information using computer technology, and the impact of such technology on medical research, education, and patient care.

HIM 1110 Standard Healthcare Practices (2.00 Credits)
(Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT) or Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT)) and Prerequisite HIM 1000 with a minimum grade of C and Permission of the Program
This course serves as an introduction to nomenclature and classification systems, reimbursement issues, and indexes and registries in a health information management department. Related health information management practices in ambulatory care, long-term care, rehabilitation, and mental health facilities are addressed.

HIM 1140 Pharmacology and Pathophysiology for HIM Professionals (3.00 Credits)
Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Health Sciences: General Health Sciences Focus (Associate in Science) (HSA-GEN-AS)
This course focuses on general principles, etiology and pathophysiology of human diseases and general pharmacology. A living body systems approach is utilized which includes basic anatomy, physiology, manifestations of disease states, and medical complications. Diagnostic procedures and treatment of each disease are investigated. The course will also explore the origins of words related to pharmacology, the naming of drugs, different routes of drug administration, uses of medications in relation to various disorders and diseases.

HIM 1212 Data and Workflow Management (2.00 Credits)
Permission of the Program and (Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT))
This course introduces building healthcare information architecture for integrated delivery systems. Database theory, design, and management concepts with emphases on data integrity, security, and data mining/ trending using query and report generation from healthcare data warehouses will be addressed. Workflow and process re/design to support clinical, financial, and administrative reporting and decision making will also be covered.

HIM 1430 Principles of Disease (2.00 Credits)
Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or (Pre- or Co-requisite HIM 1442 with a minimum grade of C and (Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT)))
This course focuses on general principles, etiology and pathophysiology of human diseases. A living body systems approach is utilized which includes basic anatomy, physiology, manifestations of disease states, and medical complications. Diagnostic procedures and treatment of each disease are investigated.

HIM 1442 Pharmacology for HIM Professionals (2.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT)) and (Prerequisite BSC 1084C with a minimum grade of C or (Prerequisite BSC 2085 with a minimum grade of C and Prerequisite BSC 2085L with a minimum grade of C and Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C and Permission of the Program))
This courses is designed to introduce Health Information Management (HIM) students to the most common drugs utilized in healthcare. This knowledge will help students recognize drug categories and generic and trade name drugs.

HIM 1506 HIM Compliance (1.00 Credits)
Permission of the Program and Pre- or Co-requisite HIM 2510 with a minimum grade of C and Admission to Health Information Technology (Associate in Science) (HIT-AS)
This course is an introduction to healthcare compliance.

HIM 1511 Healthcare Informatics and Data Workflow (3.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT)) and Prerequisite Developmental math met or appropriate scores on the College Placement test. and Prerequisite CGS 1100 with a minimum grade of C and Permission of the Program
This introductory course provides an overview of healthcare informatics; as a combination of principles from computer science, information science, and cognitive science. This course introduces the essential competencies of healthcare informatics; and follows its evolution to illustrate the current state of the field, and the complexity and diversity that informatics plays throughout the organization.

HIM 1800 Professional Practice Experience I (2.0-3.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT)) and Pre- or Co-requisite HIM 2652 with a minimum grade of C
This clinical practice allows the student to experience and practice generic health information management department functions in a simulated health information management environment. Topics addressed include typical workflow patterns; admission/registration processes; record analysis; management of standard health record documents; record filing and numbering systems; retention and retrieval procedures; and electronic health record (EHR) activities. The student will utilize various types of equipment and software representative of a health information management department.

HIM 2012 Health Law Concepts and Practices (2.00 Credits)
Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Health Sciences (Associate in Science) (HSA-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT) or Admission to Health Care Services (Certificate with Financial Aid Eligibility) (HSA-CT) or Admission to Health Sciences (Transfer Plan) (HSA-TR)
This course is an in-depth study of the federal, state and local laws which govern the preparation and use of medical records in the health care delivery system. Topics include the medical record as a legal document and release of information.

HIM 2201 Introduction to Statistics and Data Analysis (3.00 Credits)
Permission of the Program and Prerequisite any college level MAC, MGF or STA course with a grade of C or better and Pre- or Co-requisite HIM 1800 with a minimum grade of C and (Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT) or Admission to Health Information Technology (Associate in Science) (HIT-AS))
This course addresses computation of rates and percentages for basic healthcare statistics with introduction to vital statistics, data display, report generation, and research methodologies.

HIM 2214 Healthcare Statistics and Research (2.00 Credits)
Permission of the Program and Admission to Health Information Technology (Associate in Science) (HIT-AS) and any college level MAC, MGF or STA course with a grade of C or better
This course addresses computation of rates and percentages for basic healthcare statistics with introduction to vital statistics, data display, report generation, and research methodologies.

HIM 2215 Health Data Analysis (1.0-2.00 Credits)
((Admission to Health Information Technology (Associate in Science) (HIT-AS) and Prerequisite HIM 2214 with a minimum grade of C) or Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT)) and Permission of the Program
This course is an introduction to the basic principles of acquiring, managing, manipulating, and analyzing health care data.

HIM 2222 Basic ICD Coding (2.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT)) and Pre- or Co-requisite HIM 1430 with a minimum grade of C
This course is an introduction to the basic coding principles of the International Classification of Diseases (ICD) coding system.

HIM 2223 Introduction to Coding and Reimbursement Systems (2.00 Credits)
Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Health Sciences (Associate in Science) (HSA-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT) or Admission to Health Care Services (Certificate with Financial Aid Eligibility) (HSA-CT) or Admission to Health Sciences (Transfer Plan) (HSA-TR)
This course gives learners an overview of healthcare reimbursement systems, and the impact on the US healthcare delivery system and economy. Concepts of this course include reimbursement terminology, methodologies, as well as the impact of health insurance, coding, billing, and compliance.

HIM 2229 Introduction to ICD-CM Coding (3.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT)) and (Pre- or Co-requisite HIM 1101 with a minimum grade of C or Pre- or Co-requisite HIM 1140 with a minimum grade of C) and Permission of the Program
This course is an introduction to the basic coding principles of the International Classification of Diseases (ICD) coding system. Students will learn to code diagnoses that describe patient illnesses, diseases, conditions, injuries, or other reasons for seeking healthcare services.

HIM 2253 Basic CPT Coding (2.0-3.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT)) and (Pre- or Co-requisite HIM 1430 with a minimum grade of C or Pre- or Co-requisite HIM 1140 with a minimum grade of C)
This course is an introduction to the basic coding principals, characteristics and conventions of coding using the Physicians Current Procedure Terminology (CPT) coding nomenclature.

HIM 2500 Organization and Supervision (2.00 Credits)
Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or (Admission to Health Information Technology (Associate in Science) (HIT-AS) and Prerequisite HIM 2012 with a minimum grade of C and Prerequisite HIM 1101 with a minimum grade of C)
This course is an introduction to management and leadership principles, with an emphasis on health information professionals. The goal of this course is to provide a foundation for sound management practice and decision-making for HIM professionals in today's healthcare environment.

HIM 2510 Healthcare Quality and Performance Improvement (2.00 Credits)
Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to HSA-AS or Admission to Health Care Services (Certificate with Financial Aid Eligibility) (HSA-CT) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Health Sciences (Transfer Plan) (HSA-TR)
This course is an introduction to Healthcare Quality and Performance Improvement. It provides healthcare students the knowledge and skills that form the foundational platform of dependable, high-quality job performance required by members of healthcare teams in various healthcare settings. The three basics of quality management: measurement, assessment, and improvement are reiterated throughout the course. Other major topics include: utilization management, risk management, case management, and reliability science.

HIM 2652 Electronic Health/Medical Record Systems (2.00 Credits)
Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT) or Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT) or Admission to Health Sciences (Associate in Science) (HSA-AS) or Admission to Health Care Services (Certificate with Financial Aid Eligibility) (HSA-CT) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Health Sciences (Transfer Plan) (HSA-TR)
This course addresses information systems theory, electronic health record concepts and associated infrastructure and applications, as well as strategic planning and implementation of health record information systems. Additional issues covered include regulatory concepts, privacy and security requirements, best practices, and future trends.

HIM 2662 Clinical Information Systems (3.00 Credits)
Admission to Health Data Management (Advanced Technical Certificate with Financial Aid Eligibility) (HDM-ATC) and (Pre- or Co-requisite HIM 2860 with a minimum grade of C or Pre- or Co-requisite HIM 2932 with a minimum grade of C)
This course introduces building healthcare information architecture for integrated delivery systems. Database theory, design, and management concepts with emphases on data integrity, security, and data mining/ trending using query and report generation from healthcare data warehouses are addresses. Workflow and process redesign to support clinical, financial, and administrative reporting and decision-making will also be covered.

HIM 2722 ICD-CM Coding (2.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT)) and Prerequisite HIM 2222 with a minimum grade of C and Permission of the Program
This course is an introduction to the International Classification of Diseases, Clinical Modification (ICD-CM) Coding System. Students will learn to code diagnoses that describe patient illnesses, diseases, conditions, injuries, or other reasons for seeking healthcare services.

HIM 2723 ICD-PCS Coding (2.0-3.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT)) and (Prerequisite HIM 2722 with a minimum grade of C or Prerequisite HIM 2229 with a minimum grade of C)
This course is an introduction to the use of the International Classification of Diseases, Procedural Coding System (ICD-PCS). This coding system is used by hospitals for coding inpatient procedures.

HIM 2810 Professional Practice Experience II (2.0-3.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) or Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT)) and (Prerequisite HIM 1140 with a minimum grade of C or Prerequisite HIM 1442 with a minimum grade of C) and Prerequisite HIM 1800 with a minimum grade of C and Prerequisite HIM 2253 with a minimum grade of C and Prerequisite HIM 2723 with a minimum grade of C
This course allows the student to perform medical coding functions in a professional practice setting using either a simulated or an actual health information management environment. Students will apply knowledge and skills for coding patient records using the International Classification of Diseases (ICD) and the Current Procedural Terminology (CPT) coding systems.

HIM 2820 Professional Practice Experience III (2.00 Credits)
Admission to Health Information Technology (Associate in Science) (HIT-AS) and Prerequisite HIM 2810 with a minimum grade of C
This clinical practice allows the Health Information Management A.S. degree student to participate in health information management functions in either an acute care or other health care setting. Topics addressed include standard HIM department functions, billing and reimbursement, release of information, management, and supervision activities. The student will become familiar with and utilize various types of equipment, systems, and processes used in health information management departments.

HIM 2860 Database Management for Clinical Information Systems (3.00 Credits)
Admission to Health Data Management (Advanced Technical Certificate with Financial Aid Eligibility) (HDM-ATC) and (Pre- or Co-requisite HIM 2662 with a minimum grade of C or Pre- or Co-requisite HIM 2932 with a minimum grade of C)
This course addresses application of database theory and methodologies for database design. Students examine issues related to database administration. Emphasis is on requirements and methodologies for assuring data integrity and security in healthcare enterprise information systems, specifically in relationship to the database environment.

HIM 2932 Contemporary Issues in Health Data Management (3.00 Credits)
Admission to Health Data Management (Advanced Technical Certificate with Financial Aid Eligibility) (HDM-ATC) and (Pre- or Co-requisite HIM 2662 with a minimum grade of C or Pre- or Co-requisite HIM 2860 with a minimum grade of C)
This course provides a discussion of emerging issues and trends in the healthcare informatics and health information management (HIM) field. Students integrate and apply knowledge and skills learned in prior HIM courses. Students develop a capstone project in which they apply principles of good practice in health information management.

HIM 2960 Credentialing Exam Review (1.0-2.00 Credits)
(Admission to Health Information Technology (Associate in Science) (HIT-AS) and Pre- or Co-requisite HIM 2810 with a minimum grade of C) or (Admission to Medical Coding and Revenue Management (Certificate with Financial Aid Eligibility) (MEDCD-CT) and Pre- or Co-requisite HIM 2810 with a minimum grade of C) or (Admission to Healthcare Data Management (Certificate with Financial Aid Eligibility) (HCINF-CT) and Pre- or Co-requisite HIM 1800 with a minimum grade of C and Pre- or Co-requisite HIM 1511 with a minimum grade of C)
This course provides students the opportunity to review for their national credentialing exams. Weekly assignments and instructor led discussions will assist the students with their test preparations by helping them recall course content and related concepts, study strategies, and ways to identify additional resources to help prepare for certification.

HIM 3240 CDI Principles and Practice (3.00 Credits)
Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) and Prerequisite HSA 4184 with a minimum grade of C
This course is an introduction to the role of the clinical documentation improvement specialist as a member of the healthcare team. Major topics include the fundamentals of clinical documentation, content and format of various types of documentation and emerging technologies. Students will learn about high quality documentation, evidence based documentation, and how documentation is assessed in various healthcare settings.

HIM 3243 Coding and Reimbursement for CDI Professionals (3.00 Credits)
Prerequisite HIM 3240 and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)
This course will introduce students to inpatient coding and reimbursement practices that are relevant to their role as a CDI Professional. Major topics include payment methodologies specific to inpatient healthcare settings including inpatient prospective payment systems and diagnosis related groups (DRGs). Students will learn about reimbursement methodologies, prospective payment systems, diagnostic and procedure coding for inpatient services, coding compliance and the process of auditing the health record.

HIM 3852 Clinical Documentation Practitioner Practicum Experience (3.00 Credits)
(Prerequisite HIM 3240 with a minimum grade of C and Prerequisite HIM 3243 with a minimum grade of C) and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)
This course will test the student's knowledge of Clinical Documentation Improvement (CDI) concepts by reviewing case studies and/or real world cases of the clinical documentation improvement practitioner. Major topics include record review and document clarification, use of best practices and leadership skills using a multidisciplinary team approach in a real world and/or virtual setting.

## HLP-Health, Leisure, and Physical Education

HLP 1080 Personal Wellness (1.00 Credits)
No Requisites Required

This course includes laboratory analysis of selected current health indicators using appropriate evaluation techniques. Students will determine their current health status and develop a functional program to foster optimal wellness. Within these parameters, students will develop a knowledge and understanding of nutrition and physical fitness as it relates to good health. Individualized nutritional programs will be designed with the use of a current computer software program. Note: this course is only available to Collegiate High School students.

## HSA-Health Services Administration

HSA 1100 Healthcare Delivery Systems (3.00 Credits)
No Requisites Required
This course is an introduction to health care facilities and health delivery systems including their purpose, organization, general functions and staffing. Facilities such as hospitals, nursing and rehabilitation centers, health maintenance organizations, private and public outpatient clinics and health care centers are analyzed and discussed. Additional topics include an overview of accreditation standards; licensure agencies, reimbursement systems, legal/ethical issues, healthcare computerization, documentation, quality, compliance, and regulatory requirements.

HSA 1102 Current Issues in Health (2.00 Credits)
No Requisites Required
This course is designed for the organized presentation of current issues within the health care system. Emphasis focuses on diverse areas of health and is appropriate for persons directly or indirectly involved in the provision of health care or health education. (Note: Study Abroad opportunities may apply to this course. (https://blog.spcollege.edu/international/study-abroad/)).

HSA 2001 Interprofessional Team Based Health Care (2.00 Credits)
No Requisites Required
This course introduces the student to interprofessional health care delivery. Best practices are emphasized for team formation, effective communication strategies, and patient care processes. Ethical issues related to team management in health care are discussed.

HSA 2182 Health Services Management Concepts (2.00 Credits)
No Requisites Required

This course covers the knowledge and basic skills required to enter the field of medical office management. The course focuses on health care delivery in a medical office setting.Topics include an introduction to health care management information systems, an introduction to essential policies and regulations, and an introduction to evaluation of performance and process outcomes. (Note: By course completion, the student must submit proof of current CPR certification valid for 2 years that covers cardiac and breathing emergencies in adults, including the use of AED, & infant/child CPR. (Rev. 5/5/2020)

HSA 3104 Health Care Delivery in the United States (3.00 Credits)
(Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS)) and Pre- or Co-requisite HSA 4184 with a minimum grade of C
This course provides an overview of the U.S. health care delivery system. Students will explore the essential elements of the health care system as well as the socioeconomic, political, technological, and legal forces that influence the delivery of health care in the United States. Focus will also be given to funding, collaboration and quality of care.

HSA 3113 Contemporary Issues in Health Care & Human Services (3.00 Credits)
Prerequisite HSA 4184 with a minimum grade of C and (Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or (Prerequisite DEH 3813 with a minimum grade of C and Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS)))
This course is designed to introduce students to a range of issues related to health care and human services in the United States. Course content will give students the opportunity to explore differing perspectives as they develop a deeper understanding of the issues and enhance their research and communication skills. The course will enable students to analyze and evaluate evidence regarding controversial issues and allow them to develop and practice skills in formulating and writing well-informed, well-articulated arguments and reflections.

HSA 3170 Health & Human Services Finance (3.00 Credits)
Prerequisite HSA 4184 with a minimum grade of C and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)
This course provides students with an overview of the principle financial mechanisms in the U.S. Healthcare Industry and the critical issues the industry currently faces. Additionally, it provides students with a foundation in using financial tools which will enable them to better understand health care finances and analysis within the health care system.

HSA 3551 Ethics in Health Care (2.00 Credits)
(Prerequisite HSA 3104 with a minimum grade of C or Prerequisite HSA 4184 with a minimum grade of C) and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)
This course will explore ethical behavior in various health care settings. Students will analyze decision making models, theories, values, and professional obligations and apply them to their roles as health care providers.

HSA 3702 Research Methods in Health & Human Services (3.00 Credits)
Prerequisite HSA 4184 with a minimum grade of C and (Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS))
This course is an overview of the role and scope of research as it relates to the support of decision making. This course develops the basic skill of critically analyzing research findings. Research methods are introduced with emphasis placed on analyzing key elements of research reports as a basis for determining the appropriateness of the research results for evidence-based health service's practice.

HSA 4140 Strategic Management and Planning in Health & Human Services (3.00 Credits)
Prerequisite HSA 4184 with a minimum grade of C and (Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS))
This course will focus on past and present interventions that affect supply and demand for health care at community, state, regional, and national levels. Health planning and regulatory entities will be presented. Strategic management and program planning in the context of current economic and market conditions will be discussed and students will formulate practical implications based on current literature.

HSA 4184 Leadership & Management in Health & Human Services Organizations (3.00 Credits)
Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS) or Permission of the Program
This course focuses on the theories, concepts and principles of leadership. Emphasis will be on the development of leadership skills related to personal and professional behavior, communication, organization and self-examination. This course explores opportunities to develop leadership roles appropriate to careers in the health & human services organizations.

HSA 4191 Health Information Systems (3.00 Credits)
(Prerequisite HSA 4184 with a minimum grade of C and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)) or (Prerequisite DEH 3813 with a minimum grade of C and Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS))
This course focuses on the theories, concepts and principles of health information systems and development of critical thinking skills for use in practice/working in health care informatics. Current trends and issues in using, designing, and managing heath care information systems will be examined. Students, applying evidence-based knowledge, will analyze the design and implementation of health care information systems.

HSA 4192 Applied Health Information/Informatics (3.00 Credits)
Prerequisite HSA 4191 with a minimum grade of C and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)
This course is designed to provide the student the application knowledge, skills and attitudes necessary for effective participation in the planning, design, management and use of clinical information systems. The course is focused on providing students with the expertise to conceptualize and strategically plan and build the appropriate health information infrastructure for supporting the knowledge requirements of the healthcare organization.

HSA 4502 Health Care Risk Management (3.00 Credits)
(Prerequisite HSA 4184 with a minimum grade of C and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)) or (Prerequisite DEH 3813 with a minimum grade of C and Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS))
This course focuses on the theories, concepts and principles of health care risk management and development of an integration of concepts relevant to health care risk management. Current trends and issues in using, designing, and managing health care risk management systems will be examined. Students, applying evidence-based knowledge, will analyze the design and implementation of health care risk management systems.

## HSC-Health Sciences

HSC 0003 Basic Health Care Worker (0.00 Credits)
No Requisites Required
The Health Science Core is required in the majority of PSAV and College health science programs. At the PSAV level, the health science core is offered through Basic Health Care Worker (HSC0003) on page 2 of this document. In college credit programs it is encompassed in standards 1-11 listed on page 8 of this document. Secondary and Postsecondary students completing the health science core will not have to repeat the core in any other health science programs in which it is a part of. When the recommended sequence is followed, the structure allows students to complete at specified points for employment or remain for advanced training or cross-training. A student who completes the applicable competencies at any occupational completion point may either continue with the training program or exit as an occupational completer. Standards After successfully completing this program, the student will be able to perform the following: 01.0 Demonstrate knowledge of the healthcare delivery system and health occupations. 02.0 Demonstrate the ability to communicate and use interpersonal skills effectively. 03.0 Demonstrate legal and ethical responsibilities. 04.0 Demonstrate an understanding of and apply wellness and disease concepts. 05.0 Recognize and practice safety and security procedures. 06.0 Recognize and respond to emergency situations. 07.0 Recognize and practice infection control procedures. 08.0 Demonstrate an understanding of information technology applications in healthcare. 09.0 Demonstrate employability skills. 10.0 Demonstrate knowledge of blood borne diseases, including HIV/AIDS. 11.0 Apply basic math and science skills.

HSC 1100 DANTES Here's To Your Health (3.00 Credits)
No Requisites Required
Minimum score of 48

HSC 1128 Survey of Health Care Technology (3.00 Credits)
Pre- or Co-requisite ENC 1101 with a minimum grade of C
This course is an exploration of the technology used in a health care setting including specialty units. Students will explore the historical development of health care technology and its impact on health care delivery. Students will understand the basic processes and regulations related to the development of medical and health care technology. Students will learn the general functions of health care technology and the related physiological processes and health disorders addressed. Students will develop a lexicon of terminology associated with the functions and application of technology in a health care environment.

HSC 1149 General Pharmacology for Health Professionals (1.00 Credits)
Prerequisite BSC 1083 or Prerequisite BSC 1084C or (Prerequisite BSC 2085 and Prerequisite BSC 2085L and Prerequisite BSC 2086 and Prerequisite BSC 2086L) or Permission of the Program
This course will provide the student with a basic introduction to pharmacology concepts and principles associated with management of common diseases and treatment options. It presents information on major drug classifications, indications for use of common medications, and potential contraindications adversely affecting medical care outcomes.

HSC 1524 Introduction to Infectious Disease (2.00 Credits)
(Developmental math met or satisfactory score on the college placement test) and Prerequisite ENC 1101 with a minimum grade of C and ((Prerequisite BSC 2085 with a minimum grade of C and Prerequisite BSC 2085L with a minimum grade of C) or Prerequisite BSC 1084C with a minimum grade of C)

This course is a survey of the basic principles of microbiology. It relates these principles to Funeral Service Education especially as they pertain to sanitation, disinfection, public health, and embalming practice. The development and use of personal, professional and community hygiene and sanitation are discussed.

HSC 1531 Medical Terminology I (2.00 Credits)
No Requisites Required
This course is an introduction to medical terms and abbreviations utilized by health care professionals in patient care settings. It introduces the study of prefixes, suffixes, and word roots of medical terms and their meaning, spelling, and pronunciation. Topics also include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

HSC 2721 Evidence-Based Healthcare Practice (1.00 Credits)
No Requisites Required
This course focuses on providing students with the comprehensive knowledge and skill base needed to make evidence-based decisions. Methods of critical evaluation of data needed to support planning, implementation, and evaluation will be emphasized. Students will address concerns in the professional work setting by analyzing decisions made through use of evidence.

HSC 3201 Community Health and Epidemiology (3.00 Credits)
(Prerequisite HSA 4184 with a minimum grade of C and (Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS)) ) or (Prerequisite DEH 3813 with a minimum grade of C and (Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS) or Admission to Biology (Bachelor of Science) (BIOLOGY-BS)))
This course is designed to assist students in recognizing and analyzing the interrelationships between individuals, population group, and communities in determining the health status of each. Students will explore the complex determinants of health and disease, the impact of economic, social, environmental and cultural concerns on community health status, and community organizations that help shape community health. Course content integrates concepts from social, behavioral, biological and natural sciences, with emphasis on epidemiology, to examine the history and foundation of community health.

HSC 3211 Concepts of Health Promotion & Disease Prevention (3.00 Credits)
(Prerequisite HSA 4184 with a minimum grade of C and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)) or (Prerequisite DEH 3813 with a minimum grade of C and Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS))
This course is designed to develop student's knowledge and theoretical insight into the historical and contemporary developments, trends, fundamental concepts and strategies in Health Promotion practice and its role at local, national and international levels. Students will explore the most common theories from behavioral and social sciences that address individual motivations and obstacles to positive health behavior or behavior change, as well as social-based, organization-based and eco-social theories, including the Health Belief Model, the Theory of Planned Behavior, the Transtheoretical Model, Social Support Theory, Social Learning Theory, and Diffusion of Innovations. By the end of the course, students will also have an opportunity to learn how to create a health promotion program plan, write a grant proposal, and search for funding opportunities.

HSC 3243 Educational Concepts in Allied Health Education (3.00 Credits)
Prerequisite HSA 4184 with a minimum grade of C or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)
This course is designed to provide an introduction to the principles of learning and teaching, especially as they apply to allied health professions such as staff training and patient education. Topics include understanding various learning theories, learning styles, motivational strategies, collaborative learning, the influence of diversity, and using technology to support learning. 47 contact hours or equivalent.

HSC 4640 Legal & Ethical Aspects of Health Care (3.00 Credits)
(Prerequisite HSA 4184 with a minimum grade of C and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)) or (Prerequisite DEH 4852 with a minimum grade of C and Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS)) or Admission to Emergency Management (Advanced Technical Certificate with Financial Aid Eligibility) (EAM-ATC) or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS)
This course explores a broad overview of legal foundations in a multidisciplinary health care marketplace within the United States. Advanced topics included are legal history, torts, negligence, contracts, liability, Health Insurance Portability and Accountability Act (HIPAA) compliance, and medical records. The creation and termination of the patient-provider relationship will be explored as well as creation of an informed consent.

HSC 4910 Health & Human Services Administration Capstone (4.00 Credits)
Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) and All Major Coursework Satisfied (HSA-BAS) and at least 6 credit hours from HSA-BAS Subplans CDI, HIS, HSA, HUS or PRMKT
This capstone course, taken in the final semester of the program, is designed to provide students an opportunity to apply their knowledge of a chosen professional health care or human services role through work experience with a community mentor. Students in this course will gain practical experience in a professional role in the health or human services fields. Students are responsible for securing a mentor for the capstone course, securing a site on/off campus to complete the experience, and for developing their capstone project proposal in collaboration with the mentor and facilitator.

HSC 4931 Health & Human Services Administration Pre-Capstone (3.00 Credits)
Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) and Prerequisite All Major Coursework Satisfied (HSA-BAS) and Prerequisite at least 6 credit hours from HSA-BAS Subplans CDI, HIS, HSA, HUS or PRMKT.
This course focuses on preparation for the Health Services Administration Capstone course (HSC 4910) and immediately precedes enrollment in the Capstone course. Students will identify a personal career pathway, demonstrate employment preparedness, and explain the role of professional development. Emphasis will be on developing a Capstone Learning Contract in which they design their Capstone project. An affiliation agreement for the Capstone project will also be executed, if required, as well as any required background or health screenings. This course explores the transition from student to employee.

## HUM-Humanities

HUM 1020 Introduction to Humanities (3.00 Credits)
Prerequisite Dev Level 2 Writing Met or Appropriate score on the college placement test.

In this course, students will learn about the creative ideas and accomplishments of various cultures in various fields of humanities that may include art, architecture, drama, history, music, literature, philosophy, and religion. The course will include cultural expressions from the western canon and may also include expressions from around the globe. ***State Core Course Description (State Rule 6A-14.0303).*** Students will describe, analyze, and interpret primary source examples from the visual, performing, literary, and film arts, and students will learn how an artwork's meaning is influenced by its broader context. Topics will include examples from authors, artists, and other creators from a variety of cultures. This course satisfies SPC Humanities General Education Core and Enhanced World View requirements. (Note: Credit is only given for HUM 1020 or HUM 1020H.)

HUM 1020H Honors Introduction to Humanities (3.00 Credits)
(Prerequisite Dev Level 2 Writing Met or Appropriate score on the college placement test) and (Acceptance into the Honors College or Permission of the Honors Program)

In this course, students will learn about the creative ideas and accomplishments of various cultures in various fields of humanities that may include art, architecture, drama, history, music, literature, philosophy, and religion. The course will include cultural expressions from the western canon and may also include expressions from around the globe. Honors Level Content. ***State Core Course Description (State Rule 6A-14.0303).*** Students will describe, analyze, and interpret primary source examples from the visual, performing, literary, and film arts, and students will learn how an artwork's meaning is influenced by its broader context. Topics will include examples from authors, artists, and other creators from a variety of cultures. This course satisfies SPC Humanities General Education Core and Enhanced World View requirements. (Note: Credit is only given for HUM 1020H or HUM 1020.)

HUM 2210 Western Humanities:Ancient to Renaissance (3.00 Credits)
Prerequisite Appropriate score on the college placement test.
This course examines Western cultural and aesthetic perspectives from the Ancient to Renaissance periods with an emphasis on the visual, literary, philosophical, and performing arts. This course partially satisfies the writing requirements outlined in the General Education Requirements. (Note: Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

HUM 2210H Honors Western Humanities: Ancient to Renaissance (3.00 Credits)
Prerequisite Appropriate score on the college placement test. or Permission of the Program
This course is a study of various epochs of Western culture from the ancient to Renaissance periods with emphasis on analysis and synthesis of ideas and structure in the visual arts, literature, philosophy, and music. It stresses development of personal aesthetic sensibilities and commitment to intellectual curiosity. This course partially satisfies the writing requirements outlined in the General Education Requirements. (Note: Credit is only given for HUM 2210 or IDS 1101H or HUM 2210H. (Students who received credit for HUM 2250 cannot also receive credit for HUM 2210 or HUM 2233.))

HUM 2233 Western Humanities:Baroque to Contemporary (3.00 Credits)
Prerequisite Dev Level 2 Writing Met or Prerequisite Appropriate score on the college placement test.
This course examines Western cultural and aesthetic perspectives from the Baroque to the Contemporary periods with an emphasis on the visual, literary, philosophical, and performing arts. (Note: This course partially satisfies the writing requirements outlined in the General Education Requirements.) Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

HUM 2262 Introduction to Greek Culture (3.00 Credits)
Prerequisite ENC 0025 or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test.
This course examines Greek cultural and aesthetic perspectives from Ancient Greece to present day, with an emphasis on history, literature, mythology, philosophy, and performing arts. (Note: Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

HUM 2270 Humanities (East-West Synthesis) (3.00 Credits)
Prerequisite Dev Level 2 Writing Met or Prerequisite appropriate score on the college placement test.
This course is a study of non-Western cultures, including the Middle East, Asia, and Africa. Emphasis is placed on acquiring knowledge of non-Western arts, values, and ideas relative to Western culture and developing an awareness of a world community. This course partially satisfies the writing requirements outlined in the General Education Requirements. (Credit is only given for both HUM 2270 or HUM 2270H.)

HUM 2270H Honors Humanities (East-West Synthesis) (3.00 Credits)
Prerequisite Appropriate score on the CPT or approval of the Dean.
This course is a study of various major non-Western cultures including the Near East, Far East, and Africa, as related to the Western tradition. Emphasis is placed on applying knowledge of non-Western values and ideas relative to Western culture toward constructing a coherent world-view and reaching a deep understanding of self. This course partially satisfies the writing requirements outlined in the General Education Requirements. Credit is not given for both HUM 2270 and HUM 2270H.

HUM 2940 Humanities Internship (1.0-3.00 Credits)
Permission of the Program

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to his/her program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations. To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

HUM 2949 Co-op Work Experience (1.0-3.00 Credits)
Permission of the Program
This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. Variable credits are available, one to three per course. The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments. (Note: This course may be taken up to 12 times for a total of 12 credits.)

HUM 2950 Study Abroad in Humanities (3.00 Credits)
Prerequisite ENC 0025 or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test or Permission of the Program
This course, exclusively for students in the SPC Study Abroad Programs, is designed to offer topics of special interest in the humanities to students combined with actual travel and study on-site at one or more SPC Study Abroad program partners. Such course offerings include the examination of the styles and influences of music, art, architecture, theatre, religion, literature and philosophy. Specific content will vary depending on the specific study abroad program. The course includes lectures, discussions, field trips and multiple writing experiences. (Note: this course involves extensive orientation and preparation plus careful monitoring of student work and progress while studying abroad).

## HUN-Human Nutrition

HUN 1201 Science of Nutrition (3.00 Credits)
Prerequisite ENC 1101or equivalent
This course covers the basic principles of nutrition, including knowledge of the principal nutrients in foods and their utilization by the body and determining and meeting food needs for optimum health at different stages of the life span.

## HUS-Human Services

HUS 1001 Principles and Strategies for Human Services (3.00 Credits)
No Requisites Required
This course is an introduction to effective helping strategies in human services. The focus is upon normalization, problem-solving skills, and the various roles and functions of the human services professional. Personal awareness as it relates to the human services field is emphasized.

HUS 1011 Applied Assertiveness Skills (2.00 Credits)
No Requisites Required
This course is designed to promote personal and professional development in students. Elements of assertive behavior as well as factors contributing to non-assertive behavior will be explored. Strategies for improved self-efficacy, as well as strategies for recognizing and addressing self-defeating behavior will be examined and applied to the Human Services setting. The impact of culture on an individual's views and interpretation of assertive behavior will be examined.

HUS 1013 Strategies for Building Self Esteem (3.00 Credits)
No Requisites Required
This course will assist students in integrating self-esteem principles and methods into human services practice. Students will learn and apply techniques for enhancing self-esteem and then integrate them into human services practice through a case study approach. The student will learn skills for assessing and improving their own self-concepts and also incorporate these skills into their work in the human services field.

HUS 1019 Introduction to Stress Management (3.00 Credits)
No Requisites Required
This course is an overview of the field of stress management for students in the Human Services and Health Related Fields. Emphasis is on the application of practical techniques or stress management.

HUS 1111 Introduction to Intra and Inter-Personal Processes (3.00 Credits)
No Requisites Required
This course is an introductory experience in which specific skills needed for effective human service work are examined and practiced. The focus is on the dynamics of intra and inter-personal processes.

HUS 1318 Domestic Abuse and Family Violence (1.00 Credits)
No Requisites Required
This course is designed to educate human services workers for the evaluation, counseling and outreach skills necessary for working with victims of domestic violence. The dynamics of partner violence, child abuse, elder abuse, and sexual abuse will all be explored.

HUS 1320 Theories and Foundations of Crisis Intervention (1.00 Credits)
No Requisites Required
This course will provide an overview of crisis intervention theory and practical application to working with individuals in crisis. Students will utilize a case study approach to learn strategies and techniques to assist people experiencing crisis with a focus on appropriate response, assessment, and referrals to local resources.

HUS 1353 Issues in Community Health Services (3.00 Credits)
No Requisites Required
This course provides an overview of current issues and topics in community health services with a focus on health disparities (including socioeconomic status, race/ethnicity, gender, sexual orientation and age), vulnerable populations, and the social determinants of health. Students will gain an understanding of these determinants to develop strategies to improve the health of communities and populations. Topics include communication and education, foundations of health, professional responsibility, advocacy, resources, socioeconomic factors in health, social and behavioral determinants of health, access to healthcare, community/public health, the concept of community, and how we study communities/populations and the health issues they face.

HUS 1431 Issues in Addiction Prevention (2.00 Credits)
No Requisites Required
This course provides an overview of practice in the addictions prevention field or related areas. Attention will be given to various prevention strategies, their strengths and weaknesses, research findings in the field as well as their implications, and to special populations and their specific needs.

HUS 1445 Practices for Working With Dysfunctional Family Systems (2.00 Credits)
No Requisites Required
This course focuses on the dynamics of family dysfunction including negative patterns of parental behavior, substance abuse (alcohol, drugs, etc.), physical abuse, sexual abuse, neglect, emotional abuse, and severe mental illness. The course addresses a broad spectrum of issues including the characteristics of dysfunctional families as well as the traits and characteristics of functional families. Emphasis is placed on causes, effects and roles of individuals within the family system. Through maladaptive behaviors families often develop a set of restrictions that inhibit the social and emotional growth and development of its members, particularly the children. Concepts to be addressed include: dynamics of the family system, functional versus dysfunctional families, understanding the role of dysfunction in families and the family life cycle.

HUS 1450 Dual Diagnosis I (2.00 Credits)
No Requisites Required
This course covers theoretical frameworks and treatment concepts used by students/professionals providing services to clients with mental illness who have been diagnosed as having substance abuse problems. Topics will include: Historical Overview and Review of Current Literature, Clinical Profiles of Dually Diagnosed Clients, Physiological Effects of Substance Abuse for Psychiatrically Disabled Individuals, The Disease Concept of Addiction: A Workable Concept for Mental Health Programs, Interaction of Dysfunctional Disorders, and Borderline Personality Disorders.

HUS 1480 HIV/AIDS & Drug Crisis (2.00 Credits)
No Requisites Required
This course serves to increase the knowledge, awareness and skills of potential and current Human Service professionals, other professionals in related fields and interested individuals in the community regarding the Human Immunodeficiency Virus (HIV) and the Acquired Immune Deficiency Syndrome (AIDS) in relation to the drug culture. The course provides an overview of HIV/AIDS pathology, clinical manifestations and treatment, including the psychosocial management of HIV/AIDS in the substance abusing and recovering population. Students learn about local and national agencies to enhance their ability to refer appropriately.

HUS 1530 Survey Developmental Disabilities (3.00 Credits)
No Requisites Required
This course is an examination of concepts basic to understanding developmental disabilities. Emphasis is on terminology, measurement and assessment techniques, historical and contemporary attitudes, causes, education, and the impact of developmental disabilities on family and society. (Note: This course has a substantial writing requirement.)

HUS 1620 Principles and Best Practices in Afterschool Programs (3.00 Credits)
No Requisites Required
This course is an overview of the knowledge and skills necessary to implement a developmentally appropriate afterschool program for children and youth. The course examines established quality program elements and standards and best practices and their practical application to daily program practice.

HUS 1640 Foundations of Youth Development (3.00 Credits)
No Requisites Required
This course provides an understanding of the dynamics that influence and shape youth behavior. The course emphasizes: effective verbal and non-verbal communication skills; developmental stages exclusion and inclusion, trust, and respect. The course prepares students to function as youth workers using a youth development approach in community-based, residential, group home and other youth work environments. Students will explore these concepts: developing a professional awareness of youth work; identifying and distinguishing between asset building models and deficit based models of adolescent development; and developing a capacity to design and implement programs consistent with the needs of youth in relation to available resources.

HUS 2200 Dynamics of Groups and Group Counseling (3.00 Credits)
No Requisites Required
This is an experiential course which reintroduces basic concepts and skills with regard to different types of groups and group dynamics. The focus is upon presentation of group facilitation techniques and the review of each student’s practice sessions.

HUS 2302 Basic Counseling Skills (3.00 Credits)
No Requisites Required
This course is an introductory experience in active listening skills. The focus is on viewing and processing of each student's video taped practice counseling sessions with emphasis on basic awareness and communication skills, empathic listening, positive regard for the client, and recognition of interference in the communication process.

HUS 2315 Studies in Behavioral Modification (3.00 Credits)
No Requisites Required
This course is the study of the use of basic behavior modification techniques in the helping professions. Emphasis is on learning theory and motivation, reinforcement schedules, environmental events that impact human behavior, and practical application of the theories.

HUS 2403 Abused Substances and their Effects (3.00 Credits)
No Requisites Required
This course is a comprehensive survey of abused substances and their impact on the human body and upon society. The pathophysiological effects of substance abuse are emphasized while historical, legal, medical, social, and ethical issues are reviewed. The classes of drugs examined include major and minor tranquilizers, sedatives and hypnotics, narcotics, stimulants, and hallucinogens. The primary focus will be upon heroin, cocaine, marijuana and alcohol.

HUS 2420 Evaluation of Treatment Environments (3.00 Credits)
No Requisites Required
This course is a cross-cultural, multidisciplinary examination of physical and social aspects of treatment environments and their effects on individual well-being. Professional research, empirical data, and conceptual frameworks will be emphasized.

HUS 2421 Methods for Identification and Intervention in Substance Abuse (3.00 Credits)
No Requisites Required
This course is a comprehensive examination of methods used in the identification, intervention, and prevention of substance abuse. Symptoms and progression of substance abuse, types of abusers and special groups, various intervention techniques, and the interrelationship between the illness of substance abuse and the moral, legal, spiritual, sociological and psychological aspects will be reviewed.

HUS 2428 Treatment and Resources in Substance Abuse (3.00 Credits)
No Requisites Required
This course is a multi-disciplinary study of various treatment methods for the substance abuser and an examination of the educational materials available to the practitioner. In addition, this course serves as a final preparatory session for those professionals who plan to successfully complete the Board Certification Examination.

HUS 2540 Building Stronger Families and Communities (3.00 Credits)
No Requisites Required
This course provides an understanding of the essential role that human service professionals play in facilitating healthy families and communities. The effects of poverty, inequality, unemployment, child abuse, substance abuse, and domestic violence are included. The course provides strategies for empowering families to move to effective parenting; developing healthy life-styles; promoting self-esteem and self-worth; assuming responsibility; problem solving skills; resolving conflicts; identifying alternatives; and making healthy choices.

HUS 2541 Working with Families in the Early Childhood Period (3.00 Credits)
No Requisites Required
This course addresses three important issues of early childhood: health, development, and parenting. The depth of developmental knowledge provided is intended to enhance the skills of the family health and support worker, to increase their ability to provide anticipatory guidance and teaching and to empower the parent-child relationship. Common health problems of infancy and early childhood that affect normal development are discussed along with important health promotion and disease prevention strategies for creating a safe and nurturing environment for the child. Additional topics will include social, environmental and biological influences and factors that collectively impede or facilitate individual and family development, the major periods and domains of child development from birth to five, the importance of early learning experiences that enhance brain development, and the characteristics and importance of parent-child interactions as well as cultural and social influences that affect parenting skills.

HUS 2542 Working with Families in the Perinatal Period (3.00 Credits)
No Requisites Required
This course is designed to increase student competency in supporting families during the preconception, pregnancy and immediate postpartum periods. Course content will focus on human reproduction, pregnancy, birth, and infant care, with an emphasis on the adjustment of the family and its individual members during the perinatal period. The course will present both factual information and skills for promoting healthy behaviors. Students will apply their knowledge within the theoretical contexts of human and family development gained in previous coursework. Students will practice skills for counseling families about reproductive health in a sensitive, culturally-competent manner.

HUS 2550 Social Services and the Disenfranchised (3.00 Credits)
No Requisites Required

This course facilitates awareness of the impact minority and other disenfranchised families experience in the United States. Emphasizes historical trends, social stratification, and current status. Analyzes the effects of perceptions and misconceptions on minorities and other disenfranchised families to prepare professionals to work effectively with individuals who are ethnically, culturally, and racially diverse.

HUS 2949 Co-op Work Experience in Human Services (3.00 Credits)
Prerequisite Permission of the Program.

This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments. (Note: This course may be taken up to 4 times for a total of 12 credits.) To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

HUS 3020 Human Development Through the Lifespan (3.00 Credits)
Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Human Services (Bachelor of Science) (HUMSVC-BS)
This course is designed to educate human services workers to human development across the lifespan. This course will discuss factors that make a person distinctively different. The course will work through the major theories explaining our cognitive, biological, emotional, and social development through various life stages-such as prenatal, childhood, adolescence, and adulthood. The student also will learn how to identify lifespan needs and/or limitations for a client within the counseling setting.

HUS 3204 Advanced Group Dynamics (3.00 Credits)
Prerequisite HUS 2200 with a minimum grade of C and (Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or Admission to Applied Mental Health (Advanced Technical Certificate with Financial Aid Eligibility) (AMH-ATC))
The purpose of this course is for students to develop skills and techniques for effective group counseling, as well as assuming a leadership role of a therapeutic group. This course will examine organizational, clinical, and interpersonal factors, which contribute to the group's therapeutic efficacy. This course builds skills necessary for effective group leadership and identifies ethical and professional standards required to lead a therapeutic group.

HUS 3321 Case Management and Problem-Solving for Human Services (3.00 Credits)
(Prerequisite HSA 4184 with a minimum grade of C and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)) or Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or Admission to Applied Mental Health (Advanced Technical Certificate with Financial Aid Eligibility) (AMH-ATC)
This course covers various needs of the human services client. Case management with children and families, elderly, chronically mentally ill, developmentally and physically disabled, and those in health care settings will be discussed. Skills in case management will be covered as well as some research on case management.

HUS 3335 Advanced Counseling & Interviewing Skills (3.00 Credits)
Prerequisite HUS 2302 with a minimum grade of C and (Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Applied Mental Health (Advanced Technical Certificate with Financial Aid Eligibility) (AMH-ATC))
This course builds essential counselor skills by identifying crucial elements of effective counseling. Students will develop proficiency in case conceptualization by studying and practicing techniques and strategies from major counseling theories while exploring the efficacy of treatment techniques and the role cultural issues may play in the application of these approaches.

HUS 3354 Child and Family Welfare (3.00 Credits)
Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or (Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) and Permission of the Program)
This course will explore contemporary issues, policies, and programs related to the care of children and adolescents in society. Governmental initiatives, philosophies, social issues, and other factors affecting the well-being and safety of children, youth, and families, specifically within the context of the family welfare structure will also be examined.

HUS 3370 Issues In Mental Health (3.00 Credits)
(Prerequisite HSA 4184 with a minimum grade of C and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)) or (Prerequisite DEH 3813 with a minimum grade of C and Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS)) or Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or Admission to Applied Mental Health (Advanced Technical Certificate with Financial Aid Eligibility) (AMH-ATC)
This course will examine the concepts of mental health and mental disorders from a variety of perspectives within a social context. Students will explore the incidence and prevalence of mental illnesses in the U.S., the social consequences of mental illness, such as stigma, marginalization, and isolation, barriers to care, and strategies for treatment and resolution of mental health issues and illnesses. Students will examine the role of social factors in the etiology and treatment of issues intertwined with mental health.

HUS 3505 Ethics in Human Services (3.00 Credits)
Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or Admission to Applied Mental Health (Advanced Technical Certificate with Financial Aid Eligibility) (AMH-ATC)
This course explores the legal, ethical, and professional choices faced by practicing human service professionals. Topics include ethical decision-making, counselor-client relationships, professional standards, attitudes and beliefs, value conflicts, ethical issues in research and testing, counselor competence and supervision, confidentiality, privileged communication, duty to warn and protect, dual relationships, and malpractice. This course also focuses on ethical issues in multicultural/diversity counseling, marital and family therapy, group counseling, and issues related to dealing with unethical behavior.

HUS 3570 Vulnerable Populations:Health and Health Care Issues (3.00 Credits)
(Prerequisite HSA 4184 with a minimum grade of C and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)) or (Prerequisite DEH 3813 with a minimum grade of C and Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS))
This course presents the principles and concepts of vulnerability as it relates to health and health care. This course offers a general framework to study vulnerable populations and a comprehensive overview of risk factors for vulnerability and consequences of health disparities in the United States. Students will learn about trends and patterns of disparity that impact health care access, quality of health care and health outcomes. Students will also examine current strategies aimed at serving vulnerable populations and resolving disparities.

HUS 3601 Human Services Social Research (3.00 Credits)
Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or (Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) and Permission of the Program)
This course focuses on a strategic approach to researching and evaluating human services delivered to clients. Students will examine quantitative and qualitative research, ethical considerations, and approaches to evaluate the quality and efficacy of direct services.

HUS 4333 Assessment & Interventions in Mental Health (3.00 Credits)
Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or Admission to Applied Mental Health (Advanced Technical Certificate with Financial Aid Eligibility) (AMH-ATC)
This course uses the current edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM) as the initial instrument for assessment of psychological disorders. Students will learn how various interview techniques and psychometric testing are used in the overall assessment process. Based on the client's assessment findings, students will learn to identify appropriate treatment settings that include both in-patient and out-patient settings. Students will also learn the "continuum of care" as an intervention strategy involving an integrated system of care, guiding the client over time through a comprehensive array of mental health services. The effects of sex, gender, race, and culture are integrated into this course.

HUS 4442 Substance Abuse and the Family (3.00 Credits)
(Prerequisite HSA 4184 with a minimum grade of C and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)) or (Prerequisite DEH 3813 with a minimum grade of C and Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS)) or Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or Admission to Applied Mental Health (Advanced Technical Certificate with Financial Aid Eligibility) (AMH-ATC)
This course offers a broad overview of the basic processes of substance use, abuse, addiction, treatment, and recovery. Students will examine the biological, psychological and societal forces that encourage the use, misuse, abuse and addiction to both licit and illicit substances. The course focuses on the major substances of abuse and their historical, social and legal impact on our society as well as their physical, psychological and social impact on individuals, families, and the community.

HUS 4553 Multicultural Perspectives in Human Services (3.00 Credits)
Admission to Human Services (Bachelor of Science) (HUMSVC-BS)
This course will focus on implementing cultural competence practices within diverse populations of human services delivery. Students will identify their own perspectives so they can be effective counselors and practitioners when working with clients from different cultural backgrounds.

HUS 4561 Social Problems and Policy (3.00 Credits)
(Prerequisite HSA 4184 with a minimum grade of C and Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)) or (Prerequisite DEH 3813 with a minimum grade of C and Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS)) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or Admission to Applied Mental Health (Advanced Technical Certificate with Financial Aid Eligibility) (AMH-ATC)
This course will provide an overview of the application of theoretical foundations to describe social determinants of health, and explain their relationship to a range of social problems, issues of cultural diversity as well as how these impact policy development at the community, state, and national level. Emphasis is placed on health care, social, economic, environmental and political conditions as well as their interconnectedness as seen through the lens of various theoretical frameworks.

HUS 4650 Administration in Human Services (3.00 Credits)
Admission to Human Services (Bachelor of Science) (HUMSVC-BS)

This course examines the operations of a human services agency and its management, including the role of strategic planning and governance, clinical and non-clinical support services related to human services programs, quality improvement, fiscal operations, and information technology of the organizational structure.

HUS 4700 Advanced Treatment & Management (3.00 Credits)
Prerequisite HUS 4333 with a minimum grade of C and (Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or Admission to Applied Mental Health (Advanced Technical Certificate with Financial Aid Eligibility) (AMH-ATC))
This course examines the treatment plan as the primary document guiding the counselor and client through the treatment process. Students will distinguish the essential parts of a treatment plan and how to author individualized treatment plans that incorporate empirically based treatments and are culturally and ethnically appropriate. Students will learn techniques for engaging the client's involvement in the treatment planning process. Students will also learn how to assess the effectiveness of treatment plans through the process of reevaluation, making referrals, and engaging in case consultation. Students will also learn how to write a discharge plan.

HUS 4930 Special Topics Seminar for First Responders (3.00 Credits)
Permission of the Program

This course will include a capstone project that addresses a pressing need for first responders. This course will provide instruction on a range of topics relevant to first responders such as Officer Involved Domestic Violence (OIDV), first responder suicide, cumulative stress responses and/or any other first responder topics identified as a pressing need for the first responder cohort. These seminars are designed to enhance the skills and knowledge of first responders, improving their resilience and performance in their daily roles.

HUS 4945 Human Services Internship (3.00 Credits)
Admission to Human Services (Bachelor of Science) (HUMSVC-BS) or Admission to Applied Mental Health (Advanced Technical Certificate with Financial Aid Eligibility) (AMH-ATC)

The human services internship addresses the intermediate and advanced skills of the human services professional. This course will provide students with the opportunity to work in the field to develop and strengthen their expertise. Students will integrate and build upon knowledge gained in their human services classroom work by applying these skills through a supervised 180-hour workplace internship. With a focus on hands-on experience, students will engage in individual and group counseling, case management, crisis intervention, client education, referrals, and consultation with other professionals.

## IDH-Interdisciplinary Honors

IDH 2001H Honors Seminar I (1.00 Credits)
Permission of the Program: Restricted to students in the Honors Program.

THIS COURSE IS FOR HONORS PROGRAM STUDENTS. Students in Honors Seminar I will explore a faculty-chosen topic that begins to build their leadership skills and set academic and vocational goals. They will identify potential careers, aligned academic programs, and explore pros, cons, and their own rationale for their choices. Students will begin research leading to a capstone project in Honors Seminar IV, participate in service learning/civic engagement appropriate to support and illuminate their explorations, and begin building their portfolio of academic, leadership, and service experiences. This course requires 4 service learning/civic engagement hours.

IDH 2002H Honors Seminar II (1.00 Credits)
Permission of the Program: Restricted to students in the Honors Program and Prerequisite IDH 2001H with a minimum grade of C

THIS COURSE IS FOR HONORS PROGRAM STUDENTS ONLY. Building on the exploration completed in Honors Seminar I, students in Honors Seminar II will narrow their focus to a specific career or academic degree path and create a strategic plan to achieve their goal. Through a faculty-chosen topic, students will advance their leadership practice, moving from foundational skills to implementing leadership strategies in civic engagement contexts. Students will design their approach to the capstone research project they will complete in Honors Seminar IV, including identifying potential topics and faculty mentors. Students will engage in service learning/civic engagement within their chosen field (4 hours required) and revise their Honors Portfolio to reflect their deepening expertise and commitment.

IDH 2003H Honors Seminar III (1.00 Credits)
Permission of the Program: Restricted to students in the Honors program and Prerequisite IDH 2001H with a minimum grade of C and Prerequisite IDH 2002H with a minimum grade of C

THIS COURSE IS FOR HONORS PROGRAM STUDENTS ONLY. Building on the research plan designed in Honors Seminar II, students in Honors Seminar III will implement their research project, collecting and analyzing data on their chosen topic. Through a faculty-chosen topic, students will develop professional skills and materials essential for their career or academic goals, including résumés, application essays, and cover letters. Students will take on leadership roles in service learning/civic engagement within their focused area of interest (4 hours required) and enhance their Honors Portfolio with evidence of their research progress and professional development.

IDH 2004H Honors Seminar IV (1.00 Credits)
Permission of the Program: Restricted to students in the Honors program and (Prerequisite IDH 2001H with a minimum grade of C and Prerequisite IDH 2002H with a minimum grade of C and Prerequisite IDH 2003H with a minimum grade of C)

THIS COURSE IS FOR HONORS PROGRAM STUDENTS. Students in Honors Seminar IV will complete a capstone project that will reflect the work done in Honors Seminars I-III. It is expected that the project will be suitable for publication or presentation in an academic or professional journal or conference in the field identified in Honors Seminars I-III and finalize their honors portfolio. Students will typically be expected to have identified specific instructors in their fields of study to work with one-on-one on this project. Students will continue to participate in service learning or civic engagement that supports their focused area of interest.

IDH 2634H Honors Service Learning (1.00 Credits)
Prerequisite Appropriate score on the college placement test or Prerequisite Acceptance into the Honors College or Permission of the Program

This course is designed to provide students with a laboratory in which learning experiences address human and community needs. This includes contribution to a real community need, research and reflection. Topics will include civic and social responsibility, service participation, critical thinking, social and cultural diversity, integration of theory and life experience, and experiential learning. The format will incorporate honors research, class discussion, and presentation honors portfolios on service-learning specific to the student's interests. 10 contact hours including in-class orientation and on-line discussion. (Note: The student must fulfill the requirement of 30 service hours in addition to written assignments. This course is repeatable with different service assignment for up to 3 credits. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

IDH 3034H Honors Seminar V (1.00 Credits)
Permission of the Program: Restricted to students in the Honors program

THIS COURSE IS FOR HONORS PROGRAM STUDENTS AND SHOULD BE TAKEN DURING THE FIRST 30 CREDIT HOURS OF THEIR BACCALAUREATE ACADEMIC PROGRAM. An applied exploration of current knowledge, issues, and innovation in STEAM disciplines, and their potential for problem-solving and engagement with ethical and philosophical questions. Each section of IDH 3034H addresses different aspects of scientific knowledge, advancement, innovation, application, as well as the development of necessary leadership skills to tackle these difficult issues. The list of major topics will vary from section to section. However, they will generally align with the following broad list of topics: scientific method and innovation, creative research design, critical observation, and inference application of scientific knowledge. This course requires 12 service/civic engagement hours.

IDH 3035H Honors Seminar VI (1.00 Credits)
Permission of the Program: Restricted to students in the Honors program and Prerequisite IDH 3034H with a minimum grade of C

THIS COURSE IS FOR HONORS PROGRAM STUDENTS ONLY AND SHOULD BE TAKEN DURING THE SECOND HALF OF THEIR BACCALAUREATE ACADEMIC PROGRAM (within 30-60 credit hours). Building on the scientific thinking and inquiry skills developed in Honors Seminar V, this course provides comprehensive training in both quantitative and qualitative research methodologies applicable across social and natural sciences. Through exploring faculty-chosen topics presenting real-world problems, students will learn to design research studies and develop formal research proposals. This methodological training is designed to prepare students with the foundational skills necessary for pursuing independent research opportunities, including participation in Undergraduate Research Experiences (URE), should they choose to do so. Students will lead substantial service-learning projects (12 hours required) addressing scientific questions with broad societal implications.

## IDS-Interdisciplinary Studies

## INR-International Relations

INR 2002 International Relations (3.00 Credits)
Prerequisite POS 2041or equivalent
This course is an introductory study of the factors that affect relations among nations, including the development of nationalism; the elements that determine national power; the formulation of foreign policy; the art of diplomacy; the history and application of international law; international economics; international organizations; militarism and war; case studies involving the above; and contemporary events in international relations. (Note: This course partially satisfies the writing requirements outlined in the General Education Requirements. Credit is only given for INR 2002 or INR 2002H. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

INR 2002H Honors International Relations (3.00 Credits)
(Prerequisite POS 2041 and Prerequisite appropriate score on the college placement test) or Prerequisite POS 2041H or Permission of the Program
This course is an introductory study of the factors that affect relations among nations. Through various teaching and learning methodologies, the student will become familiar with the various theories of international relations, the development of nationalism; the elements that determine national power; the formulation of foreign policy; the art of diplomacy; the history and application of international law; international economics; international organizations; militarism and war. The course will cultivate independent scholarship, active learning and enhanced student participation. This course will encourage the use of logical reasoning, in-depth analysis, and critical thinking skills when examining historical and contemporary events in international relations. (Note: This course partially satisfies the writing requirements outlined in the General Education Requirements. Credit is only given for INR 2002H or INR 2002. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

INR 2500 Model United Nations (3.00 Credits)
Prerequisite POS 2041
This course will introduce students to the history of the United Nations, the structure of the UN system, Main Bodies of the United Nations, and the role of diplomacy in solving global issues. This course places strong emphasis on research and experiential learning. Students will be encouraged to understand the blocks of states that exist in the UN and how they engage diplomatically with each other. In particular, students will be required to assume the role of a member state and understand its views with regard to a few, selected international issues. Students will develop the ability to defend their country's position towards these international issues in formal, written format as well as orally using parliamentary-styles of debate. Students will become Knowledgeable not only on their assigned country but on the topics that they will be asked to analyze and discuss.

INR 4030 Diplomacy (3.00 Credits)
Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS)
This course provides foundation into the principles of diplomacy on an international, national, state and local level. Emphasis will be placed on combining theoretical and practical applications addressing governments, businesses and citizen groups in the development of diplomatic techniques and the basic principles of protocol. Case studies and class exercises are employed to help students develop skills in multi-party negotiations, conflict resolution, crisis and resource allocation and decision making. Course content is guided by an understanding that the relationship between diplomacy in an era of globalization and instant communications is integral in facilitating, mitigating and dealing with the challenges we face in the 21st. century.

## INT-Sign Language Interpreting

INT 1000 Fundamentals of Interpreting (2.00 Credits)
Prerequisite ASL 1300 with a minimum grade of C and Prerequisite INT 1941 with a minimum grade of C and Prerequisite ASL 2210C with a minimum grade of C and Pre- or Co-requisite INT 1000L
This course is an overview of the profession of interpreting, its standards and settings. It covers basic understanding of the Registry of Interpreters for the Deaf (RID) Code of Ethics which governs the standards of the interpreting profession and how to apply these principles to a variety of interpreting situations as well as other central issues related to the interpreting profession.

INT 1000L Fundamentals Lab (2.00 Credits)
Prerequisite ASL 1160C with a minimum grade of C and Prerequisite ASL 1300 with a minimum grade of C and Prerequisite INT 1941 with a minimum grade of C and Prerequisite ASL 2210C with a minimum grade of C and Pre- or Co-requisite INT 1000
This course provides extensive hands-on practice to develop interpreting and transliterating skills. It includes extensive video and audio practice with different modes and sign codes.

INT 1200 Interactive Interpreting (3.00 Credits)
Prerequisite INT 1000 with a minimum grade of C and Prerequisite INT 1000L with a minimum grade of C and Prerequisite INT 1210 with a minimum grade of C and Prerequisite INT 1231 with a minimum grade of C
This course will focus on cognitive and linguistic development in interactive interpreting and on sign to voice and voice to sign skill mastery. Situations will simulate interpreting experiences in one on one or interview settings and in small group dynamics. Emphasis will be on simultaneous interpreting; consecutive style will also be included. Focus activities include audio/video and live model demonstrations and out of class observations of certified/qualified interpreters in different settings.

INT 1202 Intermediate Interpreting (2.00 Credits)
Prerequisite INT 1000 with a minimum grade of C and Prerequisite INT 1000L with a minimum grade of C and Prerequisite INT 1210 with a minimum grade of C and Prerequisite INT 1231 with a minimum grade of C
This course is a continuation of Fundamentals Interpreting and Fundamentals Lab. This course reinforces skill development and the principles of interpreting from the source language of English to the target language of American Sign Language (ASL). Activities will be reinforced through drill, practice, role play demonstration, and video and audio taped materials. The student will learn the techniques of self-assessment through media produced assessment and class discussion/analysis.

INT 1210 Transliterating (2.00 Credits)
Prerequisite ASL 1300 with a minimum grade of C and Prerequisite ASL 2210C with a minimum grade of C and Prerequisite INT 1941 with a minimum grade of C
This course is a continuation of Fundamentals Interpreting and Fundamentals Lab. This course reinforces the principles of transliterating from the source language of English to the target language of signed codes of English. Activities will be reinforced through drill, practice, role play demonstration, and video and audio taped materials. The student will learn the techniques of self-assessment through media produced assessment and class discussion/analysis.

INT 1231 Voicing I (3.00 Credits)
Prerequisite ASL 1160C with a minimum grade of C and Prerequisite ASL 1300 with a minimum grade of C and Prerequisite INT 1941 with a minimum grade of C and Prerequisite ASL 2210C with a minimum grade of C
This course focuses on the development of primary sign to voice interpreting skills for deaf people. The course emphasis focuses on voicing from Signed English to spoken English with limited emphasis given to voice interpreting from American Sign Language (ASL) to English.

INT 1232 Voicing II (3.00 Credits)
Prerequisite INT 1400 with a minimum grade of C and Prerequisite INT 1200 with a minimum grade of C and Prerequisite INT 1202 with a minimum grade of C
This course focuses on the development of more advanced voicing skills in interpreting for deaf people. Special emphasis is given to interpreting from American Sign Language to spoken English.

INT 1400 Issues in Educational Interpreting (2.00 Credits)
Prerequisite INT 1000 with a minimum grade of C and Prerequisite INT 1000L with a minimum grade of C and Prerequisite INT 1231 with a minimum grade of C and Prerequisite INT 1210
This course explores the role of the interpreter in the educational setting. Issues related to institutional policies, potential role conflicts, interpreter/faculty collaboration, and support service provision will be emphasized.

INT 1480 Interpreting Specialized Topics (3.00 Credits)
Prerequisite INT 1200 with a minimum grade of C and Prerequisite INT 1202 with a minimum grade of A and Prerequisite INT 1400 with a minimum grade of C
This course will focus on the development of vocabulary and sign equivalents in specialized settings: medical, mental health, technical, religious, educational, theatrical; and other settings as deemed appropriate by the instructor; idiomatic and multi-meaning ASL/English words will be studied.

INT 1941 Introduction to Interpreting (3.00 Credits)
Prerequisite ASL 1150C with a minimum grade of C and Prerequisite ASL 1510 with a minimum grade of C and Pre- or Co-requisite ASL 1160C with a minimum grade of C
This course provides the intermediate to advanced interpreting student with an opportunity to observe the interpreting process in various professional work situations. Students will schedule a series of individual and group observations, and discuss their practicum experiences during class. Guest speakers will also be a part of class activities.

INT 1942 Interpreting Internship (4.00 Credits)
Prerequisite INT 1400 with a minimum grade of C and Prerequisite INT 1200 with a minimum grade of C and Prerequisite INT 1202 with a minimum grade of C
This course provides the advanced level interpreting student with an opportunity to participate at the entry level of the interpreting process in a variety of settings, with supervision. Students will schedule regular hours with affiliate agencies and, according to their level of interpreting skill, assist agency staff in normal duties. Supervision, observation, and evaluation will be provided by agency interpreting staff and interpreting instructors.

INT 3004 Fundamentals of Interpreting (3.00 Credits)
Prerequisite ASL 1140C with a minimum grade of C and Prerequisite ASL 1150C with a minimum grade of C and Prerequisite ASL 1160C with a minimum grade of C and Prerequisite ASL 2210C with a minimum grade of C and Prerequisite ASL 1300 with a minimum grade of C and Prerequisite ASL 1510 with a minimum grade of C
Designed to provide students with a working knowledge of the profession of interpreting, including the tenets of the Code of Professional Conduct, certification criteria, the roles, responsibilities, and specialized skills of an interpreter in a variety of professional settings.

INT 3205C Introduction to Interpreting (4.00 Credits)
Prerequisite ASL 1140C with a minimum grade of C and Prerequisite ASL 1150C with a minimum grade of C and Prerequisite ASL 1160C with a minimum grade of C and Prerequisite ASL 2210C with a minimum grade of C and Prerequisite ASL 1300 with a minimum grade of C and Prerequisite ASL 1510 with a minimum grade of C
Designed to provide students development in English-to-American Sign Language (ASL) and ASL-to-English interpreting skills, receptive fingerspelling, the use of conceptually accurate sign production, speed and accuracy when interpreting complex subject matter, and comparing and contrasting ethical decisions relative to the similarities and differences between Registry of Interpreters Code (RID) of Professional Conduct and the Educational Interpreters Code of Conduct.

INT 3270 Consecutive Interpreting Skills (4.00 Credits)
Prerequisite INT 3004 with a minimum grade of C and Prerequisite INT 3205C with a minimum grade of C and Prerequisite INT 3404 with a minimum grade of C
This course is a continuation of English-to-American Sign language interpreting skills designed to focus on the advancement of consecutive interpretation techniques in a variety of role-playing situations and settings.

INT 3403 Issues in Educational Interpreting (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)
This course explores the role of the interpreter in the K-12 educational setting. Issues related to institutional policies, potential role conflicts, interpreter/faculty collaboration, and support service provision in the K-12 educational setting will be emphasized.

INT 3404 Advanced ASL Interpreting and Translation in Educational Settings (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) SLIP Subplan
This course will focus on the development of advanced American Sign Language (ASL) skills utilized in educational settings including idiomatic and multi-meaning ASL/English vocabulary, syntactic structures, and depicting verbs utilized in K-12 and post-secondary educational contexts.

INT 3406 Sign to Voice (ASL/English) Interpreting (3.00 Credits)
Prerequisite INT 3004 with a minimum grade of C and Prerequisite INT 3205C with a minimum grade of C and Prerequisite INT 3404 with a minimum grade of C and Prerequisite INT 3270 with a minimum grade of C
This course focuses on the development of primary sign to voice interpreting skills for deaf people in the K-12 classroom environment. The course focuses on voicing from a signed Contact Language to grade appropriate spoken English.

INT 3407 Advanced Sign to Voice (ASL/English) Interpreting (3.00 Credits)
Prerequisite INT 3004 with a minimum grade of C and Prerequisite INT 3205C with a minimum grade of C and Prerequisite INT 3404 with a minimum grade of C and Prerequisite INT 3270 with a minimum grade of C and Prerequisite INT 3406 with a minimum grade of C
This course focuses on the development of more advanced voicing skills in interpreting for deaf people in the K-12 classroom environment. Special emphasis is given to interpreting from American Sign Language to grade appropriate spoken English.

INT 4211 Transliterating (3.00 Credits)
Prerequisite INT 3205C with a minimum grade of C
This course reinforces the principles of transliterating from the source language of English to the target language of codes of English in K-12 educational settings. Activities will be reinforced through drill, practice, role play demonstration, and video and audio taped materials in K-12 educational settings. The student will learn the techniques of self-assessment through media produced assessment and class discussion/analysis.

INT 4260 Simultaneous Interpreting Skills (4.00 Credits)
Prerequisite INT 3270 with a minimum grade of C
This is an advanced course in both English-to-American Sign language and American Sign Language-to-English interpreting skills. Students will focus on the advancement of their simultaneous interpretation techniques, with speed and accuracy in their expressive interpreting skills and in a complex variety of situations and settings.

INT 4944 Interpreting Internship (4.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) Sign Language Interpreting Subplan (SLIP)

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to his/her program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations.

## ISM-Information Systems Management

ISM 3011 Management Information Systems (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to International Business (Bachelor of Applied Science) (INTBUS-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Supply Chain Management (Advanced Technical Certificate with Financial Aid Eligibility) (SCMGT-ATC) or Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS)
This course addresses key management issues as they are applied to global Information Technology (IT) management. This course also addresses strategic Information Technology issues such as management of hardware, software, Enterprise Resource Planning (ERP), electronic business integration, security and infrastructure support for a variety of industries. The student will be introduced to technology and information systems terminology and will be expected to understand the business implications of Information Technology. Real world examples using case studies, applied exercises, and research assignments will show future managers how Information Technology can be employed to improve organizations. (Note: Credit is only given for ISM 3011 or ISM 4301.)

ISM 3212 Database Management & Analysis (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course covers the essentials of database design, management, and analysis. It focuses on the skills and knowledge necessary to develop and interpret data models aligned with the requirements of business. This course also covers structured query language (SQL) and the object-oriented approach to data modeling and design.

ISM 3232 Applied Systems Analysis (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course covers a broad range of software topics as they apply to software management and systems analysis and design. Topics include, but are not limited to organizational requirements analysis, process of systems development and design, systems development life cycle (SDLC), and optimization of technology payback.

ISM 3324 Applications in Information Security (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course helps develop the important security concepts relative to software application development and access control that provide the knowledge and skills necessary for the successful management of information security in an organization. Students will understand the environment where software is designed and developed as well as the critical role software plays in providing security to an organization's information systems. The course focuses on software development concepts that relate to security, and how access control methodologies fit into the entire enterprise architecture.

ISM 4113 Software Design Methodologies (3.00 Credits)
Prerequisite ISM 3232 with a minimum grade of C
This course will provide the student the skills to apply software design processes and Agile methods. The student will learn essential software methodologies from initial software specification through to system evolution. The student will also master software project management essentials.

ISM 4263 Cloud Solutions (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course provides a survey of cloud architecture implementation and services. Students will learn how to design cloud solutions that support organizational strategies and administrative tasks with a focus on ensuring security, privacy, compliance, and trust. The course also introduces students to pricing, service lifecycles, and Service Level Agreements. It has a technical focus, and students will utilize common cloud management tools to implement services.

ISM 4320 Core Security Principles (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) and Prerequisite ISM 4323
This course provides the foundation of security principles and skills necessary for the successful management of information security in an organization. Students will understand the controls over hardware, media, as well as personnel responsible for utilizing an organization's information assets. The student will also become familiar with auditing and monitoring for security events. The course focuses on the physical measures and their associated procedures necessary to safeguard against damage, loss and theft. The student will be able to recognize the basic concepts of cryptography including key algorithms, distribution methods, methods of attack, and the construction and use of concepts such as digital signatures.

ISM 4321 Strategic Cyber Security Enforcement (3.00 Credits)
Prerequisite ISM 4330 with a minimum grade of C and (Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS))
This course is designed as an introduction to strategic cybersecurity enforcement topics. Students will learn how to identify, understand and research policies, issues, and vulnerabilities in cybersecurity. Major topics covered include; Homeland security, foreign and domestic cybersecurity policies, current and emerging cybersecurity issues, and research and development efforts.

ISM 4323 Security Essentials (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS)
Basic understanding of network, database and application principles is suggestedThis course includes the study of security issues: access control, authentication, authorization, and non-repudiation as well as network security, platform security, data and file security, virus detection and management, scam control and security administration. Also included are support technologies and tools such as: security gateways, firewall, certification authorities, and Public Key Identifiers (PKI) services.

ISM 4324 Applications in Information Security (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course helps develop the important security concepts relative to software application development and access control that provide the knowledge and skills necessary for the successful management of information security in an organization. Students will understand the environment where software is designed and developed as well as the critical role software plays in providing security to an organization's information systems. The course focuses on software development concepts that relate to security, and how access control methodologies fit into the entire enterprise architecture.

ISM 4329 Incident Investigation and Forensics (3.00 Credits)
Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS)
This course examines the process of detecting and investigating attacks against various computer systems in order to collect evidence in a forensically sound manner with the intent to report criminal activity and also to prevent future attacks. Topics include Windows, Macintosh, and Linux forensics, steganography, data acquisition, file system analysis, data recovery, password cracking, e-mail forensics, malware analysis, network forensics, and other advanced techniques in computer investigation and analysis. This course contains foundational coverage in preparing for EC-Council's Computer Hacking Forensic Investigator (CHFI) certificate. Students will need additional remediation to ensure success on the exam.

ISM 4330 Information Security Policy Administration and Management (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or
Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS)
This course develops the information security knowledge and skills necessary for the successful management of information security technology in an organization. Students will understand an organization's information assets. Students will also learn how to develop and implement policies, procedures and standards as they relate to an information security plan. The course focuses on information classification, risk assessment, business continuity planning and enterprise security architecture, as well as the key concepts of enterprise information security planning and administration.

ISM 4361 IT Services Management (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This course presents the concepts, principles, techniques and best practice framework, of how information technology (IT) resources should be organized to deliver business value. In this course students will create an information technology (IT) services management strategy by documenting the processes, functions and roles that focuses on aligning IT services with the needs of business and prepares students for the Information Technology Infrastructure Library (ITIL) certification.

ISM 4545 Data Analytics Technologies (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) and (Prerequisite STA 2023 with a minimum grade of C or Prerequisite STA 2023H with a minimum grade of C)
Data analysis is a complex field and requires knowledge and expertise to add organizational value. This course is designed to introduce students to the processes of obtaining, preparing, and analyzing data. Data analytics and mining techniques will be covered within the context of supporting data-driven decision making.

ISM 4547 Data Analytics Management (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) and Prerequisite ISM 4545 with a minimum grade of C
This course is designed to introduce students to data analysis concepts and provide an understanding of data interpretation and its practical application in the management of a business. The course covers a variety of tools used for data analysis and explores common analytical techniques. Data governance strategies ensuring that high data quality exists throughout the complete lifecycle of the data are also covered

ISM 4548 Web Analytics (3.00 Credits)
Prerequisite ISM 4545 with a minimum grade of C
This course covers online data concepts and teaches students how to search, retrieve, visualize, and analyze online quality data from social networks and social media, website usage, and clickstream data. Students will also learn to use key metrics to assess goals and return on investment, and will perform social network analysis to identify key social actors, subgroups, and network properties in social media.

ISM 4571 Emerging Security Technologies (3.00 Credits)
Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS)
This course examines the security risks associated with emerging technologies. Using case studies and a seminar format, students will analyze emerging technologies and learn how to identify vulnerabilities and security risks that emerging technologies could introduce into an organization. Students will also explore strategies for evaluating security risk, responding to and for mitigating risk in the context of emerging technologies. Students will create a comprehensive report based on an emerging technology of their choice that will describe associated security risks and provide recommendations for safe deployment of new technology.

ISM 4573 Compliance and Data Governance (3.00 Credits)
Admission to Cybersecurity (Bachelor of Applied Science) (CYSEC-BAS)
This course provides a systematic and escalated approach to Information Technology (IT) Risk. Through a progressive method of compliance monitoring and data governance, students will illustrate how to build and monitor a flexible IT Risk program that adapts to businesses requirements. Techniques include frameworks, policies, procedures and guidelines that support people, process, and technologies. This course will equip students with a holistic and realistic approach to IT Risk by employing methods that account for real and traceable risk, which are reliant on specific business cost and risk appetite.

ISM 4914 Security Capstone (3.00 Credits)
Permission of the Program
This is the capstone course for the Cyber Security program. This course provides an opportunity for students to demonstrate that they have mastered material covered throughout the program and can apply it in the real world. Using a case study approach the capstone course provides student with an opportunity to develop recommendations for dealing with current security issues. (Note: This course should be taken after completion of all other courses. Please contact the CCIT department for registration.)

ISM 4915 Senior Capstone Project (3.00 Credits)
Permission of the Program
This is the capstone course for the Technology Development and Management program. It will provide the opportunity for the student to demonstrate that he/she has learned the material from the program and can apply it in the real world. It provides the student the opportunity to develop a plan to solve a problem dealing with technology management issues today. The student will choose one case study and address the problem in detail. (Note: This course should be taken after completion of all major core courses. Please contact the CCIT department for registration.)

## JOU-Journalism

JOU 2100 Journalistic Writing and Reporting (3.00 Credits)
Prerequisite ENC 1101 or Prerequisite ENC 1101H or Prerequisite IDS 1101H
This course is an introduction to the profession of journalism and to the theory and practice of writing news. Students are given practical experience in gathering news and in writing and copyreading both news and feature stories. Student needs and demand determine the emphasis on grammar and usage. (Note: This course has a substantial writing requirement.)

LAE 3323 Methods of Teaching English in the Middle School (3.00 Credits)
Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS) and Pre- or Co-requisite LAE 3940 with a minimum grade of C and (Prerequisite TSL 3080 with a minimum grade of C or Prerequisite EEX 3012 with a minimum grade of C) and Passing scores on all sections of the General Knowledge Test

This course is designed to integrate English Language Arts coursework with practical experience in curriculum, instruction, and assessment, for students preparing to teach in a middle school ELA classroom, and students must be enrolled in the field-based co-requisite course LAE 3940. Topics for this course include cognitive needs of middle school students, objective-based lesson planning, effective communication, and classroom management. The course addresses specific Florida Benchmarks for excellent Student Thinking (B.E.S.T.) Standards for English Language Arts instruction, and pedagogy pertinent to the discipline and required for certification.

LAE 3940 Methods of Teaching English in the Middle School Practicum (1.00 Credits)
Pre- or Co-requisite LAE 3323 with a minimum grade of C and Passing scores on all sections of the General Knowledge Test and Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

This course is designed to give practical experience to students through school-based experiences in public school classrooms. Students work directly with middle school English Language Arts (ELA) classroom teachers and have an opportunity to teach both large and small group activities in ELA. This course is designed to develop competencies relative to program planning instruction, daily schedule, record keeping, evaluation, classroom management, reporting to parents, professional organizations, and teacher ethics. Students spend a minimum of sixty (60) school-based hours in the middle school (grades 6-8) ELA classroom or a setting pre-approved by the Office of School Partnerships (OSP).

LAE 4335 Methods of Teaching English in the Secondary School (3.00 Credits)
Prerequisite TSL 3080 with a minimum grade of C and Prerequisite EEX 3012 with a minimum grade of C and Pre- or Co-requisite LAE 4941 with a minimum grade of C and Prerequisite Passing scores on the Professional Education exam (ProEd) and Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

This course is designed to integrate English Language Arts coursework with practical experience in curriculum, instruction, and assessment, for students preparing to teach in a secondary ELA classroom, and students must be enrolled in the field based co-requisite course LAE 4941. Topics for this course include cognitive needs of high school students, objective-based lesson planning, effective communication, and classroom management. The course addresses specific Florida Benchmarks for Excellent Student Thinking (B.E.S.T.) Standards for English Language Arts instruction, and pedagogy pertinent to the discipline and required for certification.

LAE 4941 Methods of Teaching English in the Secondary School Practicum (1.00 Credits)
Prerequisite LAE 3323 with a minimum grade of C and Prerequisite LAE 3940 with a minimum grade of C and Pre- or Co-requisite LAE 4335 with a minimum grade of C and Passing scores on the Professional Education exam (ProEd) and Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

This course is designed to give practical experience to students through school-based experiences in public school classrooms. Students work directly with secondary English Language Arts (ELA) classroom teachers and have an opportunity to teach both large and small group activities in ELA. This course is designed to develop competencies relative to planning instruction, daily schedule, record keeping, evaluation, classroom management, reporting to parents, professional organizations, and teacher ethics. Students spend a minimum of sixty (60) school-based hours in the secondary (grades 9-12) ELA classroom or a setting pre-approved by the Office of School Partnerships (OSP).

LAE 4942 Internship: Secondary English Education (12.00 Credits)
Prerequisite LAE 3323 with a minimum grade of C and Prerequisite LAE 3940 with a minimum grade of C and Prerequisite LAE 4335 with a minimum grade of C and Prerequisite LAE 4941 with a minimum grade of C and Prerequisite Passing scores on the General Knowledge Test (GKT), Professional Ed exam (ProEd), and English 6-12 Subject Area Exam (SAE) and Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

This course requires a teacher candidate to demonstrate competency in the Florida Educator Accomplished Practices (FEAPs) during one semester of full-time internship in a grade 6-12 public school setting as approved by the Office of School Partnerships College of Education. Teacher candidates must assume full-day teaching duties for a minimum of six weeks during the fifteen-week internship. The internship also includes mandatory on-campus seminars. Contact hours: a minimum of 35 hours per week for 15 weeks.

## LDR-Leadership Studies

LDR 2001 Introduction to Leadership (3.00 Credits)
No Requisites Required

This course is an introductory leadership course with an emphasis on the traits, values, characteristics, and developmental tasks that are a foundation for leadership. Students will gain a greater sense of self-awareness as a basis for developing personal leadership skills. The course will focus on change, vision, adaptability, and effective communication. Students will be able to identify qualitative and quantitative leadership traits they possess, allowing them to prepare for leadership situations.

LIN 4680 Modern English Grammar (3.00 Credits)
Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

This course is designed to examine English grammar from the field of modern linguistics as it applies to English language pedagogy. Students will analyze personal beliefs about, use of, and understanding of grammar. Course content considers prescriptive and descriptive uses of grammar with a focus on how grammar is used in various contextualized situations as well as a consideration of methods of grammar instruction. The course also emphasizes the development of concepts and resources needed to explain and teach grammar in meaningful and appropriate ways.

## LIS-Library Science

LIS 1002 Electronic Research Strategies for College Students (1.00 Credits)
No Requisites Required
This course is designed to develop information literacy skills and to help students become full participants in the Information Age. It introduces students to the core concepts of information retrieval, essential techniques for locating, analyzing, organizing and presenting information, and essential components of computer and information ethics and security. Emphasizing both technological skills and critical thinking abilities, the course teaches strategies for using a variety of electronic resources and for coping with the changing nature of information resources. (Note: Credit is only given for LIS 1002 or LIS 1002H.)

LIS 2004 Introduction to Internet as a Research Tool (1.00 Credits)
No Requisites Required
This course is designed to develop the skills needed to use the Internet as a research tool. The course focuses on methods of accessing relevant information resources through the Internet. Students will learn to create search strategies and retrieve, evaluate, and cite Internet resources.

## LIT-Literature

LIT 2110 World Literature I (Ancient World Through Renaissance) (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C
This course is designed to study the major poetry, fiction, drama, and essays of world literature from the Ancients through the Renaissance. Emphasis is on the intellectual and moral issues in literature that unite humankind despite differences in time, place, and language. This course also emphasizes methods of library research and composition of the research paper and the paper of literary interpretation. (Note: This course partially satisfies the writing requirements outlined in the General Education Requirements. Credit is only given for LIT 2110 or LIT 2110H. Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/)).

LIT 2110H Honors World Literature I (Ancient World through Renaissance) (3.00 Credits)
(Prerequisite ENC 1101 with a minimum grade of C and Prerequisite appropriate score on the college placement test) or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1101H with a minimum grade of C or Prerequisite IDS 1111H with a minimum grade of C or Permission of the Program
This course is designed to study the major poetry, fiction, drama, and essays of world literature from the Ancients through the Renaissance. Emphasis is placed on the intellectual and moral issues in literature that unite humankind despite differences in time, place, and language. This honors course will include personalized experiences, collaborative learning experiences and an emphasis on analysis and synthesis of abstract questions relating to world literature. This course also stresses methods of research and emphasizes writing research-based papers, including literary interpretation and critical analysis using primary and secondary sources. Independent research and interdisciplinary connections are encouraged for students to make connections to other related areas of humanities, philosophy and literature in the Honors Program. (Note: This course partially satisfies the writing requirements outlined in the General Education Requirements. Credit is only given for LIT 2110 or LIT 2110H.)

LIT 2120 World Literature II (Renaissance to the Present) (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1101H with a minimum grade of C or Prerequisite IDS 1111H with a minimum grade of C
This is a course designed to study the major poetry, fiction, drama, and essays world literature from the Renaissance to the present. Emphasis is on the intellectual, philosophical, and cultural issues in literature that unite humankind despite differences in time, place, and language. This course also emphasizes research and composition of the research paper and the essay of literary interpretation. This course partially satisfies the writing requirements outlined in the General Education Requirements. World Literature I is not a prerequisite for this course. (Note: Credit is only given for LIT 2120 or LIT 2120H or IDS 1102H. Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

LIT 3103 Literature of the World (3.00 Credits)
Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

This course emphasizes the study and appreciation of the literary and human significance of selected works of world literature from the Classical Period to the Contemporary Period. It is designed to introduce students to the exploration of literary texts while strengthening skills in critical thinking and writing through comparative and interdisciplinary approaches. Students will examine these works within their historical contexts, engaging with enduring human values and conflicts that appear across various literary traditions. Through interpretation, discussion, and discovery, students will gain deeper insight into the shared and differing aspects of the human experience. This course involves extensive reading and writing.

## MAC-Mathematics: Calculus & Precalculus

MAC 1105 College Algebra (3.00 Credits)
Prerequisite Appropriate score on the College Placement Test or Prerequisite MAT 1033 with a minimum grade of C

In this course, students will develop problem solving skills, critical thinking, computational proficiency, and contextual fluency through the study of equations, functions, and their graphs. Emphasis will be placed on quadratic, exponential, and logarithmic functions. Topics will include solving equations and inequalities, definition and properties of a function, domain and range, transformations of graphs, operations on functions, composite and inverse functions, basic polynomial and rational functions, exponential and logarithmic functions, and applications. ***State Core Course Description (State Rule 6A-14.0303).*** **This course satisfies the Mathematics General Education Core.** (Note: Credit is only given for MAC 1105 or MAC 1106.)

MAC 1114 Trigonometry (3.00 Credits)
Prerequisite MAC 1105 with a minimum grade of C or Prerequisite MAC 1106 with a minimum grade of C or Prerequisite Appropriate score on the SPC mathematics placement test or Permission of the Program

This course is a study of trigonometry with an emphasis on circular functions. Major topics include: trigonometric functions, their properties and graphs; inverse trigonometric equations; solutions of triangles; complex numbers; vector algebra; parametric equations; polar coordinates; applications. 47 Contact hours. (Note: Credit is only given for MAC 1114 or MAC 1147.)

MAC 1140 Pre-Calculus Algebra (3.00 Credits)
Prerequisite MAC 1105 with a minimum grade of C or Prerequisite Appropriate score on the SPC mathematics placement test or Permission of the Program

This course prepares students for higher mathematics courses. Topics include a range of algebraic functions including polynomials, rational, exponential and logarithmic functions, piecewise defined functions, conic sections, their properties and graphs; matrices and determinants; partial fraction decomposition; sequences and series; mathematical induction and binomial theorem and its applications. (Credit is only given for MAC 1140 or MAC 1147).

MAC 1147 Pre-Calculus Algebra/Trigonometry (5.00 Credits)
Prerequisite High school trigonometry and (Prerequisite MAC 1105 with a minimum grade of C or Prerequisite Appropriate score on the SPC mathematics placement test or Permission of the Program)

This is an accelerated course covering the topics of both MAC 1140 and MAC 1114 in a single session and is intended primarily for the student who plans to take MAC 2311. Major topics include: polynomial, rational, exponential, logarithmic, piecewise-defined and other algebraic functions, their properties and graphs; conic sections, their properties and graphs; polynomial equations and inequalities; matrices and determinants; partial fraction decomposition; sequences and series; mathematical induction; binomial theorem and its applications; trigonometric functions, their properties and graphs; inverse trigonometric equations; solutions of triangles; complex numbers; vector algebra; parametric equations; polar coordinates; trigonometry applications. (Note: Credit is only given for MAC 1147 or MAC 1140 or MAC 1114.)

MAC 2233 Applied Calculus I (3.00 Credits)
Prerequisite MAC 1105 with a minimum grade of C or Prerequisite MAC 1106 with a minimum grade of C or Appropriate score on the SPC mathematics placement test or program director approval
This course is a geometric and heuristic approach to calculus: differentiation and integration of algebraic, exponential and logarithmic functions, applications to graphing, marginal analysis, optimization and areas. This course cannot be used to satisfy requirements of students majoring in mathematics or engineering. (Note: Credit is only given for MAC 2233 or MAC 2311 or MAC 2311H.)

MAC 2234 Applied Calculus II (3.00 Credits)
Prerequisite MAC 2233 with a minimum grade of C
This course is designed to follow MAC 2233 and includes topics from integral calculus, partial differentiation, and double integration. Emphasis is placed on applications in ecology, economics, geometry, physical sciences and business. (Note: Credit is only given for MAC 2234 or MAC 2312.)

MAC 2311 Calculus with Analytic Geometry I (5.00 Credits)
(Prerequisite MAC 1140 with a minimum grade of C and Prerequisite MAC 1114 with a minimum grade of C) or Prerequisite MAC 1147 with a minimum grade of C or Prerequisite Appropriate score on the SPC mathematics placement test

In this course, students will develop problem solving skills, critical thinking, computational proficiency, and contextual fluency through the study of limits, derivatives, and definite and indefinite integrals of functions of one variable, including algebraic, exponential, logarithmic, and trigonometric functions, and applications. Topics will include limits, continuity, differentiation and rates of change, optimization, curve sketching, and introduction to integration and area. ***State Core Course Description (State Rule 6A-14.0303).*** Recommend completion of MAC 1140, MAC 1114, and MAC 1147 within the last two years. **This course satisfies the Mathematics General Education Core.** (Note: Credit is only given for MAC 2311 or MAC 2311H or MAC 2233.)

MAC 2312 Calculus with Analytic Geometry II (5.00 Credits)
Prerequisite MAC 2311 with a minimum grade of C
This course is a continuation of MAC 2311 with the study of applications of integration, integration techniques, improper integrals, infinite series and sequences, conics, parametric equations, and polar coordinates. Topics include areas, volumes, centroids, work, fluid pressure, length of arc, trigonometric integrals, integration techniques, polar coordinates, improper integrals, infinite series, plane curves, parametric equations, and conic sections. (Note: Credit is only given for MAC 2312 or MAC 2234.)

MAC 2313 Calculus with Analytic Geometry III (4.00 Credits)
Prerequisite MAC 2312 with a minimum grade of C
This course is a continuation of MAC 2312 with the study of vectors in two and three-dimensional space, as well as differentiation and integration of functions of several variables. Topics include vectors in the plane and space, three-dimensional surfaces, various coordinate systems, vector-valued functions, differential calculus of functions of several variables, gradients, directional derivatives, applications of partial derivatives, multiple integration, vector analysis, line integrals, surface integrals and applications.

## MAD-Mathematics: Discrete

MAD 2104 Discrete Mathematics (3.00 Credits)
Prerequisite MAC 2311 or Permission of the Program
This course is designed for those students who are majoring in computer science, engineering, mathematics and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory.

MAD 3107 Discrete Mathematical Structures (3.00 Credits)
Prerequisite MAC 2311 with a minimum grade of C or Prerequisite MAC 2311H with a minimum grade of C
This course is designed to give mathematics education majors a thorough understanding of the nature and importance of mathematical proof as well as provide knowledge of a variety of discrete mathematics topics. Topics include proofs and proof techniques, direct proof, proof by cases, proof using the contrapositive, proof by contradiction, proof by counterexample, mathematical induction, logical arguments, sets and relations including equivalence relations and partial orders, functions and their inverses and compositions, recursion and recurrence relations, probability, counting principles, permutations, combinations, graph theory, and trees. Special emphasis will be placed on mathematical reasoning. (Note: Credit is only given for MAD 2104 or MAD 3107.)

## MAE-Mathematics: Education

MAE 3320 Interactive Teaching Methods for Middle School Mathematics (3.00 Credits)
(Prerequisite EEX 3012 with a minimum grade of C or Prerequisite TSL 3080 with a minimum grade of C) and Pre- or Co-requisite MAE 3941 with a minimum grade of C

This course is designed for students who are majoring in mathematics education and is offered concurrently with a practicum. Students will learn about principles of effective curriculum design, assessment, and interactive teaching strategies. This course addresses current Florida mathematics standards (grades 5 – 9) and pedagogy pertinent to the discipline and required for certification.

MAE 3823 Connections Through Algebraic Thinking (4.00 Credits)
Admission to Middle Grades Mathematics Education (5-9) (Bachelor of Science) (MGMED-BS) and Pre- or Co-requisite EDF 3214 with a minimum grade of C
This course is designed to develop a background for the middle school mathematics teacher that will enable the teacher to understand the relationship between the brain and learning, the meaning of conceptual understanding, the relevance of integrating algebraic skills with geometric situations, the significance of readiness for abstract thought, and the importance of teaching through presentations that utilize technology and connections to out-of-school experiences. This course will emphasize the constructivist approach and the teaching of solving problems mathematically and will utilize National Council of Teachers of Mathematics (NCTM) and current Florida mathematics standards (grades 5 – 9) in problem solving.

MAE 3941 Interactive Teaching Methods for Middle School Mathematics Practicum (1.00 Credits)
Pre- or Co-requisite MAE 3320 with a minimum grade of C and Successful completion of all sections of the General Knowledge Exam

This practicum course is designed for students who are majoring in mathematics education and is offered concurrently with Interactive Teaching Methods for Middle School Mathematics. This course provides students with opportunities to apply the knowledge of teaching methods, techniques, and strategies taught in Interactive Teaching Methods for Middle School Mathematics. Students spend a minimum of sixty (60) school-based hours in a middle school mathematics classroom approved by the College of Education.

MAE 4114 Mathematics Content for the Elementary Grades (3.00 Credits)
Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Middle Grades Mathematics Education (5-9) (Bachelor of Science) (MGMED-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS)
This course is designed to prepare individuals to teach conceptually and developmentally appropriate mathematics content at the elementary grade level. Major topics include fundamental mathematical properties; algebra; fractions, ratios, and integers; measurement; data analysis; and geometry.

MAE 4330 Instructional Methods in Secondary Mathematics with Technology (3.00 Credits)
(Prerequisite EEX 3012 with a minimum grade of C or Prerequisite TSL 3080 with a minimum grade of C) and Pre- or Co-requisite MAE 4942 with a minimum grade of C
This course is designed for students who are majoring in secondary mathematics education or middle grades mathematics education and is offered concurrently with a practicum. Students will learn about instructional methods, resources, and assessment considerations for effective teaching of mathematics including the pedagogy of algebra, probability and statistics, geometry, trigonometry, and calculus. This course addresses current Florida mathematics standards (grades 6 – 12) and pedagogy pertinent to the discipline and required for certification. It also incorporates appropriate technology to support the learning of mathematics.

MAE 4642 Assessment in Mathematics Education (2.00 Credits)
Permission of the Program
This course is designed for students who are majoring in mathematics education and who will be obtaining teacher certification in grades 5 -12. Topics addressed in this course include the application of research in mathematics education, the use of various assessments to enhance the learning of mathematics, and creating assessments based on cognitive and affective taxonomies.

MAE 4940 Internship: Secondary Mathematics Education 6-12 (12.00 Credits)
Prerequisite Successful completion of all Secondary Mathematics Education BS program requirements and Prerequisite passing of all sections of the General Knowledge and Professional Education Exam
This course requires a teacher candidate to demonstrate competency on the Florida Educator Accomplished Practices (FEAPs) at the pre-professional level during one semester of full time internship in a 6-12 school setting as approved by the College of Education. Teacher candidates must assume full-day teaching duties for a minimum of six weeks during the fifteen week internship. (Note: The internship also includes mandatory on-campus seminars. A minimum of 35 hours per week for 15 weeks.)

MAE 4942 Instructional Methods in Secondary Mathematics with Technology Practicum (1.00 Credits)
Permission of the Program and Pre- or Co-requisite MAE 4330 with a minimum grade of C and Successful completion of all sections of the Professional Education Exam
This practicum course is designed for students who are majoring in mathematics education and is offered concurrently with Instructional Methods in Secondary Mathematics with Technology. This course provides students with opportunities to apply the knowledge of teaching methods, techniques, and strategies taught in Instructional Methods in Secondary Mathematics with Technology. There are sixty (60) school-based hours of teaching and observation required in a high school mathematics classroom approved by the College of Education.

MAE 4943 Internship: Middle Grades Math Education 5-9 (12.00 Credits)
Successful completion of all Middle Grades Mathematics, 5-9 Education BS program requirements and passing of all sections of the General Knowledge and Professional Education Exam
This course requires a teacher candidate to demonstrate competency on the Florida Educator Accomplished Practices (FEAPs) at the pre-professional level during one semester of full time internship in a 5-9 public or private school setting as approved by the Dean College of Education. Teacher candidates must assume full-day teaching duties for a minimum of six weeks during the fifteen week internship. (Note: The internship also includes a series of mandatory professional leadership on-campus seminars.)

## MAN-Management

MAN 1060 Introduction to Business Sustainability (3.00 Credits)
No Requisites Required

In an era marked by global challenges such as climate impacts, resource depletion, social inequality, and ethical concerns, businesses are increasingly expected to operate in a manner that balances profitability with societal and environmental responsibility. MAN 1060 Introduction to Business Sustainability is designed to provide students with an introduction to the fundamental principles and practices of sustainable business. This course aims to equip students with the knowledge and skills necessary to create and manage organizations that can thrive in an ever-changing and sustainability-conscious business landscape.

MAN 1500 Supply Chain Operations (3.00 Credits)
No Requisites Required

This course examines the systematic approaches to managing all activities involved in moving materials, products, services, and information from point of origin to point of use. Students will learn to make improved business logistics and supply chain management decisions through the practical application of multiple analytic techniques used by managers in the field. Emphasis is placed on transportation systems, inventory analysis and management, and warehouse operations. As part of this course, students have the opportunity to pursue up to 3 SCPro Fundamentals industry certifications endorsed by the Council of Supply Chain Management Professionals (CSCMP).

MAN 1590 Supply Chain Practices (3.00 Credits)
No Requisites Required

This course is an introduction to the key concepts, principles, and processes involved in the management of supply chains. Application methods and techniques related to the management of global supply chains are also reviewed. Through this course, students will develop the foundational knowledge and skills necessary to contribute effectively to the management of supply chains in various industries. Focus areas include: customer service operations, procurement and supply management, manufacturing and service operations, and demand planning. In addition, students have the opportunity to pursue up to 4 SCPro Fundamentals industry certifications endorsed by the Council of Supply Chain Management Professionals (CSCMP).

MAN 2021 Principles of Management (3.00 Credits)
No Requisites Required

This course examines the basic fundamentals of management in relation to issues within organizations and operations of business enterprises. This course will also examine leadership methods and strategic planning. (Note: Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

MAN 2340 Supervisory Management (3.00 Credits)
No Requisites Required
This course covers practical applications in the major practices of modern supervision, including leadership, communication, motivation, performance appraisal, staffing, training and employee development, factors involved in safety, and time management.

MAN 2571 Supply Chain Planning (3.00 Credits)
No Requisites Required
This course requires students to relate supply chain best practices to organizational performance. Students will integrate the functional roles of sales, purchasing, supply chain, and operations in order to make tactical decisions with the objective of improving organizational performance. Students will apply theory and best practices from prerequisite courses across integrated supply chain decisions to implement a plan to achieve effective supply chain performance. Key performance indicators will be used to evaluate performance in a realistic business simulation so students can experience the results of their supply chain decisions in a practical manner.

MAN 2582 Introduction to Project Management (3.00 Credits)
No Requisites Required

This course is designed to prepare students for the PMI Certified Associate in Project Management (CAPM)® exam. Students will learn fundamental project management terminology and concepts, including project scope definition, planning, estimating techniques, staffing, and scheduling. The course will guide students through the development of project plans, writing project status reports, and conducting project status meetings. Key features of project management software will be covered, with hands-on practice using an example software package to develop project plans. Upon successful completion, students may be eligible to sit for the CAPM exam, provided they meet the SPC & PMI eligibility requirements.
Basic computer literacy and college-level math skills are suggested.

MAN 2604 Intercultural Relations in Business (3.00 Credits)
No Requisites Required
This course examines intercultural communication from a business perspective. Students will study facets of communication differences in various cultures. Emphasis is on increasing understanding of cultural issues that affect communication effectiveness in international business, with particular attention to four major current and emerging trade partners: Mexico, Germany, Japan and Russia. (Note: Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

MAN 2930 Current Trends in Management (3.00 Credits)
No Requisites Required

This course is an exploration of new trends in management topics and how business as a field is evolving on a yearly basis. The student will be introduced to the contemporary issues surrounding the course topic as selected by the instructor for each term. (Note: Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

MAN 3240 Applied Organizational Behavior (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)

This course is a dynamic and practical course designed to explore the fundamental concepts and principles of organizational behavior and their real-world applications. This course equips students with the knowledge and skills necessary to understand, analyze, and effectively navigate the complexities of human behavior within organizations. By examining topics such as management, leadership, motivation, communication, teamwork, and decision-making, students will develop a broad understanding of how individuals and groups function within the workplace. (Note: Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

MAN 3301 Public Personnel Management (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS)
This course will provide the student an examination of the services that are provided by a manager of a human resources department. The student will be introduced to the legal issues associated with personnel management, staffing, development, compensation and benefits, and labor relations.

MAN 3303 Management & Leadership Practices (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to International Business (Bachelor of Applied Science) (INTBUS-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)
This course presents concepts, principles, and techniques of business management and leadership in a dynamic organizational environment. This course will incorporate management skill development as it relates to the core aspects of leadership. The student will be empowered to facilitate organizational objectives through techniques such as planning, organizing, controlling, and leading.

MAN 3503 Managerial Risk Analysis and Decision Making (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Project Management (Certificate with Financial Aid Eligibility) (PRJMGT-CT) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Paralegal Studies (Transfer Plan) (LEGAL-TR) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Supply Chain Management (Advanced Technical Certificate with Financial Aid Eligibility) (SCMGT-ATC) or Admission to Business Analyst Specialist (Advanced Technical Certificate with Financial Aid Eligibility) (ANLST-ATC)
This course develops a framework for making decisions, as well as understanding how these decisions can be used to manage risk. Managers need to understand how they personally value risk in order to recognize the potential impact their behavior may have on organizations and stakeholders. This course will study approaches that students may develop and apply decision making and risk analysis to solve problems in different operating environments.

MAN 3504 Operations Management (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to International Business (Bachelor of Applied Science) (INTBUS-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Supply Chain Management (Advanced Technical Certificate with Financial Aid Eligibility) (SCMGT-ATC)
This course focuses on the managerial decision science organizations use to create a competitive advantage. The emphasis is on ten strategic operations management decisions that improve productivity and quality across the extended enterprise to deliver our products and services. Students will examine key factors impacting performance, as well as apply mathematical and computer applications to build analytic skills.

MAN 3600 International Business (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to International Business (Bachelor of Applied Science) (INTBUS-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Supply Chain Management (Advanced Technical Certificate with Financial Aid Eligibility) (SCMGT-ATC)
This course will provide a broad overview of management practices from an international perspective. This will include international management, strategic analysis and planning in a global setting, implementation and control of businesses and managing technology components to meet the challenges of globalization. Emphasis will be on addressing issues and opportunities that managers face when managing multinational multicultural organizations. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

MAN 3784 Sustainability in the Natural Environment (3.00 Credits)
Prerequisite General Education science requirement (Environmental Science, Chemistry, Biology, Tropical Ecology, Earth Science, Geology, Meteorology, or Oceanography) and (Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS))
This course is intended to provide an overview of principles of sustainability regarding the natural environment. Topics covered include business effects and mitigation of air, land, and water pollution, soil erosion and resource extraction, climate change, and threats to biodiversity. (Note: Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

MAN 3786 Sustainability in the Built Environment (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Supply Chain Management (Advanced Technical Certificate with Financial Aid Eligibility) (SCMGT-ATC)
This course introduces students to assessment tools, design and construction considerations, and operating planning requirements for sustainable enterprises. Students will learn about the ecological and economic benefits of sustainability/green practices. Additionally, they will learn how product, process, and service decisions affect sustainable enterprise concepts. Today's enterprises focus on social and environmental challenges, marketing, supply chain decisions, recycling, reusing, reconditioning, and other product and service decisions in order to realize a competitive advantage. This course will focus on best practices, case studies, evolving trends, and experimental efforts regarding sustainable/green systems.

MAN 3802 Principles of Entrepreneurship (3.00 Credits)
Admission to International Business (Bachelor of Applied Science) (INTBUS-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS) or Admission to Nursing (Bachelor of Science) (NURS-BS) or Admission to Corporate Entrepreneurship & Innovation (Advanced Technical Certificate with Financial Aid Eligibility) (COENTR-ATC)
This course provides an overview of the multiple elements associated with starting and operating a small business. There will be a wide range of fundamentals covered, including: identifying needs of the marketplace, researching and assessing market opportunities, identifying and analyzing risk, creating a value proposition, designing an introductory marketing platform, obtaining financing, cash flow strategies, operating a small business, growing a small business and relevant best practices.

MAN 4054 Managing for Innovation (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Corporate Entrepreneurship & Innovation (Advanced Technical Certificate with Financial Aid Eligibility) (COENTR-ATC)

This course details the processes and management techniques for empowering creativity and innovation in the workplace. This course explores the challenges of managing and team building in creative workspaces, whether it be for new product development, continuous process improvement, creative problem solving, or strategic planning for small organizations to large multinationals. Creative workspaces are often characterized by tension, stress, and intense disputes. This course will lead students to understand, apply, and create positive work environments that encourage and promote innovation. The class consists of lectures, case studies, and discussion.

MAN 4061 Corporate Social Responsibility (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to International Business (Bachelor of Applied Science) (INTBUS-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS)

Corporate Social Responsibility is the process of doing good in the world by being good in the workplace. Students will study positive approaches to running a successful business while reducing environmental impact and improving the quality of life for employees and the community. Students will learn how to examine and improve business processes, products, and places. Students will be combining practical business skills, technology, and innovation to solve social and environmental problems in the workplace and the community. By the end of this course, the student will have designed creative solutions to challenging issues in order to generate customer delight.(Note: Study Abroad opportunities may apply to this course. https://blog.spcollege.edu/international/study-abroad/)

MAN 4102 Management of Cultural Dynamics (3.00 Credits)
Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)

This course presents the basic concepts, principles, and techniques associated with leading cultural dynamics in the global marketplace. Emphasis will be on the students developing an understanding of the interplay between leadership, cultural dynamics, and the global business models. Students will also gain an understanding of how these concepts relate to and are applied in regional markets like Asia, Latin America, Europe, Africa, and the Middle East. (Note: Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

MAN 4570 International Procurement & Outsourcing (3.00 Credits)
Prerequisite MAN 3504 and (Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Supply Chain Management (Advanced Technical Certificate with Financial Aid Eligibility) (SCMGT-ATC))
Today's organizations purchase or outsource a number of products, processes, and/or services to support strategic, tactical, and operating decisions across their value chain or supply chain. This course presents the basic concepts, principles, and techniques of procurement and outsourcing best practices used for various products, processes, and services. These decisions have strategic importance in helping organizations to create a competitive advantage by improving their value chains. Emphasis will be placed on students developing a basic knowledge and skill set centered on real themes, demands, applications, best practices, and opportunities in today's evolving and dynamic international business environment.

MAN 4583 Project Management (3.00 Credits)
Admission to an SPC Baccalaureate program or Admission to Project Management (Certificate with Financial Aid Eligibility) (PRJMGT-CT) or Admission to Business Analyst Specialist (Advanced Technical Certificate with Financial Aid Eligibility) (ANLST-ATC) or Admission to Corporate Entrepreneurship & Innovation (Advanced Technical Certificate with Financial Aid Eligibility) (COENTR-ATC)
This course intends to build on introductory project management skills to form a solid grounding in the nine project management knowledge areas. This industry independent learning within the project arena includes the following topics: initiating, planning, executing, monitoring and controlling, closing, integration management, scope management, schedule management, cost management, quality management, resource management, communications management, risk management, procurement management and stakeholder management. Cost, scope, schedule, quality, and procurement receive special emphasis in this course. Students will align the topics to strive for the attainment of project objectives within the agreed limits of resources. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

MAN 4584 Process Improvement Methodologies (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Business Analyst Specialist (Advanced Technical Certificate with Financial Aid Eligibility) (ANLST-ATC) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Nursing (Bachelor of Science) (NURS-BS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)
This course presents the basic principles and techniques used to manage process improvement. Today's managers need to understand how to engage people in process improvement, as well as how to critically understand and apply the associated methodologies. Process improvement is complicated and dynamic, encompassing a variety of approaches traditionally recognized as Total Quality Management (TQM), Lean, Six Sigma, Balanced Scorecard, and many others. The potential benefits of process improvements create not only lucrative opportunities for today's organizations, but they are a necessity for survival in the competitive world marketplace. Businesses must be able to better manage and control their process improvements in order to achieve their strategic objectives.

MAN 4625 Managing Global Human Resources (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS)
This course focuses on addressing the issues and strategies of managing the human resource (HR) areas of transnational firms. This will include comprehending local employment laws, adapting HR management practices to local situations, understanding how to effectively recruit, develop and train talent in global enterprises, reviewing performance appraisals and addressing labor relations in multinational organizations.

MAN 4725 Policy and Strategy (3.00 Credits)
(Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to International Business (Bachelor of Applied Science) (INTBUS-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS)) and Prerequisite completion of all major (core) courses in the appropriate program. and Permission of the Program
This course provides the opportunity for the student to demonstrate that he/she has learned the material from the program and can apply it in the real world. It should be taken during the student's last semester at the College. It provides the student the opportunity to develop a strategy to solve a problem dealing with current management, marketing, and financial issues. (Note: This course is the Capstone course before graduation.)

MAN 4741 Innovation, Change and Agile Projects (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Project Management (Certificate with Financial Aid Eligibility) (PRJMGT-CT) or Admission to Business Analyst Specialist (Advanced Technical Certificate with Financial Aid Eligibility) (ANLST-ATC) or Admission to Corporate Entrepreneurship & Innovation (Advanced Technical Certificate with Financial Aid Eligibility) (COENTR-ATC)
This course intends to provide an overview of concepts and strategies to select optimal options for change, use of management and leadership skills to build broad support for change, diffuse innovation, and the successful execution through solid project management practices. Topics include organizational culture, innovation processes, technology forecasting, organizational development, tools such as K-T (Keppler Tregue), Scrum, Joint Process Change, eXtreme Process and TRIZ, reengineering, diffusion of innovations theory, social epidemic theory, learning organization, and change implementation strategies. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

MAN 4781 Sustainable Business Strategies (3.00 Credits)
Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Corporate Entrepreneurship & Innovation (Advanced Technical Certificate with Financial Aid Eligibility) (COENTR-ATC)
This course is intended to provide an overview of concepts, tools, and techniques to build and operate a sustainable organization. Topics covered include the role of leadership in sustainability, organizational design issues, capital investment, costing, and risk management systems, incentives and rewards, measurement of social, environmental, and economic impacts, green marketing concepts, and internal and external reporting.

MAN 4783 Sustainable Budget Management Triple Bottom Line Analysis (3.00 Credits)
Prerequisite MAN 4781 and (Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS))
This course is intended to develop students' knowledge and skills in environmental budget analysis, triple bottom line evaluation and reporting, and the economics of sustainability.

MAN 4787 Energy & Environmental Techniques (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS)

This course introduces students to how organizations can deal with societal challenges associated with energy and the environment. This course is intended for students with little or no background in science or mathematics, and will focus on organizational applications and opportunities for sustainability/green initiatives. This will include availability and cost requirements of energy, as well as the effects of energy use on our environment. The course also explores best practices, tools, and techniques that can be used to mitigate human impacts on the environment. This course will highlight applications and opportunities for today's managers to link operating decisions to environmentally and energy focused practices.

MAN 4788 Sustainability & Environmental Issues (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS)
This course integrates social and environmental values in a management context in order to further the student's understanding of human, natural, and financial sustainability issues. The student will evaluate sustainability and environmental philosophies on a broad scale. The student will understand international policies and regulations, human welfare, politics, environmental racism, hazardous waste and pollution, global warming, and other key sustainability/green issues. The student will work to develop skills in conducting cost-benefit, payback, and life cycle analysis to justify projects and evaluate their impact on sustainability/green issues. By increasing the student's understanding, he or she will be better prepared to direct a company, community, or country in ways that restore and enhance stakeholder value while insuring the continued sustainability of the environment as a whole for current and future generations. (Note: Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

MAN 4801 Business Plan Strategies (3.00 Credits)
Admission to College of Business BAS or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Permission of the Program
In addition, it is strongly recommended that Entrepreneurship students take MAN 3802 and MAR 4836 before taking this course. This course will allow students to create and test their business ideas through feasibility analyses. This course includes analyzing the strategic issues when starting a new firm or expanding a current business. The student will plan and implement the components of a business plan based upon their research and analysis.

MAN 4881 Authority Influence and Projects (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Project Management (Certificate with Financial Aid Eligibility) (PRJMGT-CT) or Admission to Supply Chain Management (Advanced Technical Certificate with Financial Aid Eligibility) (SCMGT-ATC)
This course intends to build leadership and management skills that facilitate the effective execution of objectives where stakeholders and resources come from multiple areas, locations, budgets, and organizational substructures. To facilitate the execution of projects and processes to achieve objectives, the topics will include the use of persuasion, motivation, emotional intelligence, cultural intelligence, and influence to gain the power and agreement to ensure the delivery of agreed resources and processes. Important learning will include the leadership and management of teams and groups across multiple locations, structures, and multiple levels of formal authority. The control, communication, and interaction of data, information, knowledge, and learning form a further range of associated topics.

MAN 4883 Project Management Methodology in Specialization (3.00 Credits)
(Admission to Project Management (Certificate with Financial Aid Eligibility) (PRJMGT-CT) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)) and Prerequisite MAN 4583 with a minimum grade of C
The purpose of this course is to evaluate project management methodology (CPM, CCPM, Waterfall, Scrum, Agile, XP, FDD, Crystal and Prince2) to effectively manage time, cost, and scope within a project. An emphasis is placed on Project Management as a proven and effective tool that allows work teams, resources and tasks to be controlled and quality achieved. Students compare the methodologies in their specialization (General, Financial, Healthcare, and IT) to achieve business benefits, and capture market share. Topics include project management methodologies, processes, strategic development, benefit analysis, project plan, design, execution, control, delivery, validation, costs, teams, communication, collaboration, conflict, and project closure. This course requires substantial planning, analyzing, and researching.

MAN 4885 Complex and Advanced Projects (3.00 Credits)
(Prerequisite MAN 4583 and Pre- or Co-requisite MAN 4741 and Pre- or Co-requisite MAN 4881) and (Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Project Management (Certificate with Financial Aid Eligibility) (PRJMGT-CT))
This course intends to build on a thorough project management foundation to include a detailed insight into large projects, projects with diversified stakeholders, multi-location, and international projects. Topics include the related insights such as portfolio theory and information economics that are required to enhance previous learning to extend to project portfolio management and project management office functions.

MAN 4900 Strategic Capstone Project (6.00 Credits)
(Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS)) and Prerequisite Completion of all major (core) courses, with a minimum grade of C. and Permission of the Program
This capstone course will provide the opportunity for the student to demonstrate that he/she has learned the material from the program and can apply it in the real world. (Note: All program core courses must be completed before registering for capstone, and ideally it should be taken during the student's last semester at the college. It provides the student the opportunity to demonstrate proficiency in addressing business issues of today in a dynamic environment.)

MAN 4902 Senior Capstone Project in Sustainability Management (3.00 Credits)
(Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS)) and Permission of the Program

This capstone course will provide the opportunity for the student to demonstrate that he/she has learned the material from the program and can apply it in the real world. It should be taken during the student's last term at the college. It provides the student the opportunity to develop a plan to solve a problem dealing with sustainability management issues of today. The student will choose one major plan to address the problem in detail. (Notes: This is a 16-week course offered in fall and/or spring terms only. Students residing within 250 miles of an SPC campus will be required to present in-person at the end of this Capstone course and should plan accordingly.)

MAN 4935 Special Topics in Management Concepts (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS)
This course is an examination of unique management topics and problems that deserve additional depth and attention as the art and science of management evolves. The student will be introduced to the foundational philosophies, history, and contemporary issues surrounding the course topic. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

MAN 4940 Internship (1.0-3.00 Credits)
Permission of the Program

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to his/her program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations. (Note: This course is repeatable up to 3 times for a total of 3 credits.) To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

## MAP-Mathematics: Applied

MAP 2302 Differential Equations (3.00 Credits)
Prerequisite MAC 2312 with a minimum grade of C
This course covers the basic methods and fundamental theorems of ordinary differential equations with applications in the natural sciences and engineering. Topics include solutions of first order differential equations, solutions of nth order linear differential equations, solutions by power series, Laplace transforms, and systems of linear differential equations.

## MAR-Marketing

MAR 1142 Global Marketing (3.00 Credits)
No Requisites Required
This course covers the principles of fair global market trade and methods for developing and implementing global marketing and trade operations. The areas of international trade, payments, development, and multinational enterprise as they apply to global marketing are the key elements of the course.

MAR 2011 Principles of Marketing (3.00 Credits)
No Requisites Required

This course covers the fundamental concepts and strategies of marketing in a comprehensive approach. Students will identify target markets, develop effective marketing strategies, and utilize various promotional techniques to achieve business objectives. The course also provides insights into consumer behavior and market dynamics to make informed marketing decisions while considering the ethical implications of the marketing field.

MAR 2101 Social Media Marketing (3.00 Credits)
No Requisites Required

This course introduces students to social media and digital/e-marketing functions and strategies that are essential to integrated marketing plans, including consumer involvement, community engagement, and customer relationship management. In this course, students will explore and implement the many forms of social media for personal promotion and as an advertising medium. Students will design a social media marketing campaign and create a digital/e-marketing plan, demonstrating how data and social media tools can be combined to build social media audiences, engaging customer experiences, advertising campaigns and integrated into digital/e-marketing plans.

MAR 2321 Advertising (3.00 Credits)
No Requisites Required

In this advertising course, students will learn to create captivating and effective advertising campaigns. They will delve into market research and audience analysis, honing their skills in crafting compelling messages for specific target demographics. Through hands-on projects and performance analysis, students will master the art of persuasive communication and data-driven decision-making in the world of advertising.

MAR 2410 Personal Selling (3.00 Credits)
No Requisites Required
This course is a study of the buying-selling cycle with emphasis on the role of salespeople in the free-enterprise system, application of sales principles, components of the sales presentation, and an introduction to sales management.

MAR 3334 Marketing Promotions (3.00 Credits)
Prerequisite MAR 3802 with a minimum grade of C and (Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS))
Today's ever competitive global marketplace consists of a complex set of dynamics and competitors all trying to garner the attention of the same buyers in a rapidly changing retail environment. This course focuses solely on the promotional role of marketing, and will illustrate the numerous aspects, tools, techniques and approaches involved with consumer marketing communications. Included will be an analysis of issues and approaches surrounding the use of: advertising, public relations, event marketing, direct response marketing, sales promotions, personal selling, and electronic marketing. Special attention will be offered to the integration & evaluation of these promotional practices, as well as their market-effectiveness.

MAR 3802 Marketing Management (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS)

This course focuses on the concepts and planning strategies of marketing skills and knowledge useful to marketing managers. Students will explore, illustrate, critique, and explain marketing concepts, including marketing's role in planning, organizing, implementing, monitoring and controlling marketing programs to effectively compete in data-driven, integrated, and technologically advanced business environments. The course focuses on business-to-consumer and business-to-business marketing, including marketing planning and strategy development.

MAR 4413 Sales and Customer Relationship Management (3.00 Credits)
Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Nursing (Bachelor of Science) (NURS-BS) or Admission to Supply Chain Management (Advanced Technical Certificate with Financial Aid Eligibility) (SCMGT-ATC)
This course focuses on addressing the issues, processes and strategies related to professional selling and customer relationship management, providing insight into the art of selling, relationship building, and sales management. Concepts explored include prospecting, lead management, product introduction, closing strategies and relationship management.

MAR 4424 International Marketing (3.00 Credits)
(Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to International Business (Bachelor of Applied Science) (INTBUS-BAS)) and Prerequisite MAR 3802
This course focuses on addressing the issues and strategies of managing the marketing function in transnational firms. International Marketing is a comprehensive course in global marketing tactics and approaches focusing on the “fundamentals” of global marketing issues and strategies (including strategic alliances), social and cultural environments, and the strategic implications of market entry and expansion in developing a multinational marketing function in global enterprises.

MAR 4613 Marketing Research (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to International Business (Bachelor of Applied Science) (INTBUS-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Corporate Entrepreneurship & Innovation (Advanced Technical Certificate with Financial Aid Eligibility) (COENTR-ATC)
This course focuses on addressing the issues, methods and strategies associated with the collection, management, analysis and dissemination of information for use in marketing decisions. The core focus will be on primary and secondary research methodologies, including problem identification, methodology design, sampling, questionnaire design, fieldwork implementation, data analysis and presentation of results.

MAR 4721 Digital Marketing Strategy (3.00 Credits)
Prerequisite MAR 3802 with a minimum grade of C and Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS)

This course details the processes and management techniques using critical thinking and strategic decision making to combine online technologies such as e-marketing, social media, mobile, search engine optimization (SEO), data, and metrics to enhance brand value and drive marketing exchanges. Students will define various digital marketing channels and how they fit within an integrated marketing/branding strategy. Students will apply digital marketing strategies to real world marketing situations and business decisions. This course will lead students to use data sourcing, analytics, and digital marketing metrics, to create and measure integrated digital marketing/branding campaign plans for real-world practical business utilization.

MAR 4836 Concept and Product Development (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Corporate Entrepreneurship & Innovation (Advanced Technical Certificate with Financial Aid Eligibility) (COENTR-ATC)

Students will embark on a journey to explore the innovation process from ideation to market launch. Through a blend of theoretical insights and practical exercises, participants will learn to identify market gaps, generate creative ideas, conduct market research, develop prototypes, and craft comprehensive product strategies. Guided by experienced instructors, students will delve into real-world case studies and collaborative projects, honing their skills in design thinking, project management, and market analysis. By the end of the course, students will possess the knowledge and tools to conceive, refine, and bring innovative products to life, making them well-equipped for careers in entrepreneurship, product management, and innovation-driven industries.

MAR 4841 Services Marketing (3.00 Credits)
Prerequisite MAR 3802 and Admission to Business Administration (Bachelor of Science) (BUS-BS)
Over the years, the marketplace has transitioned from a manufacturing-based economy (early-to-mid 1900's) to a service-based economy. At present, approximately 80% of domestic GDP, and a commanding 64% of global GDP are in fact derived from service-based market offerings; not tangible goods. Services require a unique approach to their design, development, pricing, promotion, and marketing management approach, including an "extended" 7-P's marketing mix inclusive of People, Processes and Physical Environment.

## MAS-Mathematics: Algebraic Structures

MAS 2103 Linear Algebra (3.00 Credits)
Prerequisite MAC 2311 with a minimum grade of C
This course is an introduction to real vector spaces by using the properties of vectors and matrices to find the solution to systems of equations and the algebra of linear transformations. The properties of similar and diagonal matrices will be applied to the solution of problems.

MAS 3105 Linear Algebra with Applications (4.00 Credits)
Prerequisite MAC 2312
This course is designed for students who are majoring in secondary mathematics education, mathematics, science or engineering. This course provides a thorough treatment of linear algebra using a matrix-oriented approach. Major topics include: matrices, systems of linear equations, linear transformations, determinants, eigenvectors and eigenvalues, vector spaces, subspaces, inner product spaces, and orthogonality. Emphasis is on development of algebraic reasoning abilities in analyzing conceptual relationships. (Note: Credit is only given for MAS 3105 or MAS 2103.)

MAS 4203 Number Theory (3.00 Credits)
Prerequisite MAC 2312 with a minimum grade of C
This is an introductory course to number theory with an emphasis on gaining an understanding of the nature of mathematical thinking and learning. It provides students with the opportunity to formulate conjectures and write mathematical proofs. Formal proofs are constructed in order to develop concepts in number theory. Topics include divisibility, the Euclidean algorithm, linear Diophantine equations, factorization, the Fundamental Theorem of Arithmetic, prime numbers, congruence, and multiplicative functions.

MAS 4301 Introductory Abstract Algebra (3.00 Credits)
Prerequisite MAS 3105

This course is designed for students majoring in secondary mathematics education, mathematics, science or engineering. This course presents an introduction to the basic structures of abstract algebra with the aim of connecting these structures to high school mathematics curricula. Major topics include: groups and subgroups, permutations and symmetries, properties of the integers, rings and subrings, ideals, integral domains, and fields. Emphasis is on developing understanding through active investigation of the concepts presented. Emphasis is also given to development of algebraic reasoning abilities in analyzing conceptual relationships.

## MAT-Mathematics

MAT 0022 Developmental Mathematics (0.00 Credits)
No Requisites Required
This is a course in the college-preparatory sequence that combines the objectives of both MAT 0018 and MAT 0028 and is designed to prepare students for college-level mathematics courses. This course is a study of the basic skills and concepts of basic algebra from the view of a college student who needs an understanding of basic algebra. Major topics include operations with integers, fractions, decimals, percents, geometric figures and their measures (including application problems), and other pre-algebra topics, and operations with signed rational numbers, simple linear equations and inequalities in one variable, operations on polynomials (including beginning techniques of factoring), integer exponents, brief introduction to radicals, introduction to graphing, applications, and other elementary algebra topics.

MAT 0028 Developmental Mathematics II (0.00 Credits)
Prerequisite Appropriate score on the SPC mathematics placement test or Prerequisite MAT 0018 with a minimum grade of C
This is the second course in the college-preparatory two-course sequence (MAT 0018 and MAT 0028) designed to prepare students for college-level mathematics courses. This course is a study of the basic skills and concepts of basic algebra from the view of a college student who needs an understanding of basic algebra. Major topics include operations on signed rational numbers, simple linear equations and inequalities in one variable, operations on polynomials (including beginning techniques of factoring), integer exponents, brief introduction to radicals, introduction to graphing, applications, and other basic algebra topics. A minimum course grade average of C (minimum 70% accuracy) is required for successful completion. This course does not apply toward mathematics requirements in general education or toward any associate degree. Credit is only given for MAT 0028 or MAT 0022.

MAT 0056 Developmental Mathematics Module (0.00 Credits)
Prerequisite Appropriate score on the SPC mathematics placement test or Permission of a Mathematics Department program administrator
This college preparatory course is designed to improve the basic skills and concepts of elementary algebra from the view of a college student who needs an understanding of basic algebra. Course strategies will include one-on-one instruction, small group instruction, and computer instruction in a lab setting. A diagnostic assessment will determine placement into course modules as well as exit requirements. This course is intended to prepare students for successful entry into college-level course work and does not apply toward mathematic requirements in General Education or toward any associate degree.

MAT 1033 Intermediate Algebra (3.00 Credits)
Prerequisite Appropriate score on the SPC mathematics placement test or Prerequisite Completion of required developmental education coursework
Major topics include: factoring, algebraic fractions, radicals and rational exponents, complex numbers, quadratic equations, rational equations, linear equations and inequalities in two variables and their graphs, systems of linear equations and inequalities, introduction to functions, and applications.

MAT 1033L Intermediate Algebra Laboratory (1.00 Credits)
Pre- or Co-requisite MAT 1033 with a minimum grade of C
This is a laboratory course to foster success in Intermediate Algebra and to provide additional opportunities for application of the basic skills and concepts of Intermediate Algebra.

MAT 1100 Exploration of Mathematics and Quantitative Reasoning (3.00 Credits)
Demonstration of college-level math or appropriate score on the SPC mathematics placement test
This course builds the foundation for understanding selected concepts taken from topics which include algebra, set theory, logic, geometry, probability, and statistics. Critical thinking skills, problem-solving strategies, communicating mathematically, and appropriate use of technology will be incorporated throughout the course via activities and projects. (Note: This course serves as an alternative to MAT 1033 that will prepare students for Liberal Arts Math (MGF 1106/1107) and/or Statistics (STA 2023) courses.)

## MCB-Microbiology

MCB 2004C Microbiology for Health Professionals (4.00 Credits)
Prerequisite BSC 1084C with a minimum grade of C or (Prerequisite BSC 2085 with a minimum grade of C and Prerequisite BSC 2085L with a minimum grade of C and Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C)
This course provides the necessary background and practical hands-on experience in microbiology required for non-nursing students entering the healthcare field. This course emphasizes hands on training in the principles and practices of maintaining sterility and aseptic technique skills as well as special focus on preventing infections during perioperative and interventional treatments in hospital and clinical settings. Topics include the history of microbiology, characteristics of microorganisms, the differences between prokaryotic and eukaryotic cells, host/microbe interactions and the role of genetic changes in these relationships, legal concepts, risk and ethical issues associated with working in the healthcare field.

MCB 2010 Microbiology (3.00 Credits)
(Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C) or (Prerequisite BSC 2010 with a minimum grade of C and Prerequisite BSC 2010L with a minimum grade of C) or (Prerequisite BSC 2010CH with a minimum grade of C and Pre- or Co-requisite MCB 2010L with a minimum grade of C)
Microbiology consists of the study of microorganisms and their role in our environment and health from a cellular and molecular point of view. Topics include microbial cell structure and function, microbial genetics and metabolism, bacterial identification, microbe-host interactions, antimicrobial agents, microbial control, and infectious disease. This course will emphasize the interaction of microorganisms with humans and the diseases they cause. This will enable students to understand disease-causing representatives of different groups of microorganisms and how these are transmitted and controlled. This course is not an acceptable pre-requisite for most professional and graduate programs (e.g. Physician assistant, medical school, etc.).

MCB 2010CH Honors Microbiology with Laboratory (4.00 Credits)
(Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C) or (Prerequisite BSC 2010 with a minimum grade of C and Prerequisite BSC 2010L with a minimum grade of C) or (Prerequisite BSC 2010CH with a minimum grade of C and Acceptance into the Honors College)

Microbiology consists of the study of microorganisms and their role in our environment and health from a cellular and molecular point of view. Topics include microbial cell structure and function, microbial genetics and metabolism, bacterial identification, microbe-host interactions, antimicrobial agents, microbial control, and infectious disease. This course will employ interactive learning and research projects beyond the typical Microbiology lecture and laboratory course. The laboratory portion of the course will include preparing stained smears, culturing microorganisms, conducting diagnostic tests, performing tests to identify microorganisms, and studying microbial growth control methods.(Note: Credit is only given for MCB 2010/L or MCB 2010C or MCB 2010CH)

MCB 2010L Microbiology Laboratory (1.00 Credits)
Pre- or Co-requisite MCB 2010 with a minimum grade of C
This course teaches the fundamental techniques utilized in the microbiology laboratory setting. This course is designed to familiarize the student with common practices including isolation, cultivation, and identification of microorganisms. This laboratory will consist of experiments that teach bacterial techniques, characteristics of morphology, growth responses, metabolic activity, and distribution in selected environments. .

MCB 3020 Microbiology (3.00 Credits)
((Prerequisite BSC 2010 with a minimum grade of C and Prerequisite BSC 2010L with a minimum grade of C) or Prerequisite BSC 2010CH with a minimum grade of C) and (Prerequisite CHM 2210 with a minimum grade of C and Prerequisite CHM 2210L with a minimum grade of C) and Pre- or Co-requisite MCB 3020L with a minimum grade of C
Microbiology is the study of organisms and agents too small to be seen clearly by the unaided eye. Topics will include microbial metabolism, nutrition, growth and control, molecular biology and microbial genetics, diversity of the microbial world, microbial ecology, microbial diseases and host defenses. (Note: Credit is only given for (MCB 3020C) or (MCB 3020/MCB 3020L)).

MCB 3020L Microbiology Lab (1.00 Credits)
((Prerequisite BSC 2010 with a minimum grade of C and Prerequisite BSC 2010L with a minimum grade of C) or Prerequisite BSC 2010CH with a minimum grade of C) and (Prerequisite CHM 2210 with a minimum grade of C and Prerequisite CHM 2210L with a minimum grade of C) and Pre- or Co-requisite MCB 3020 with a minimum grade of C
Microbiology is the study of organisms and agents too small to be seen clearly by the unaided eye. This laboratory course will consist of experiments that include the application of fundamental techniques used in isolation, cultivation and identification of microorganisms and using microorganisms to study current topics in biotechnology. (Note: Credit is only given for (MCB 3020C) or (MCB 3020/MCB 3020L)).

## MET-Meteorology

MET 2010 Introductory Meteorology (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite MAT 0028) or Prerequisite appropriate scores on the college placement test.
This course is a survey of the basic laws governing atmospheric structure, atmospheric motions, weather processes and weather systems.

## MGF-Mathematics: General & Finite

MGF 1106 Mathematics for Liberal Arts I (3.00 Credits)
Appropriate score on an SPC approved assessment or Completion of required developmental education coursework

This course is a general survey course in mathematics and covers a number of traditional, independent topics and will include concepts related to mathematical logic, sets, systematic counting, probability, statistics and geometry. (Note: Credit is only given for MGF 1113 or MGF 1119 or MGF 1106).

**Note: Students who have successfully completed MGF 1106 prior to Fall 2024 will satisfy the General Education Math core requirement. If completed after Fall 2024, the course will satisfy the General Education Math Elective**.

MGF 1107 Mathematics for Liberal Arts II (3.00 Credits)
Appropriate score on an SPC approved assessment or Completion of required developmental education coursework

This course presents topics demonstrating the beauty and utility of mathematics to the general student population and to provide knowledge and skills useful for college, life, and career. The course will include topics related to history of mathematics, financial mathematics, linear and exponential growth, voting and apportionment methods and graph theory. Mathematical connections with music, art, architecture and nature will be explored. Critical thinking skills, problem solving strategies and appropriate use of technology will be used throughout the course. **Note: Students who have successfully completed MGF 1107 prior to Fall 2024 will satisfy the General Education Math core requirement. If completed after Fall 2024, the course will satisfy the General Education Math elective.**

MGF 1130 Mathematical Thinking (3.00 Credits)
Prerequisite Appropriate score on an SPC approved math assessment or
Completion of required developmental education coursework

In this course, students will utilize multiple means of problem solving through student-centered mathematical exploration. The course is designed to teach students to think more effectively and increase their problem-solving ability through practical application and divergent thinking. This course is appropriate for students in a wide range of disciplines/programs. ***State Core Course Description (State Rule 6A-14.0303).*** Students will investigate multiple mathematical models, apply logic in contextual situations, apply mathematical concepts visually and contextually to geometric figures, recognize and utilize numbers and their operations appropriately in context, and analyze and interpret data to draw reasonable conclusions. **This course satisfies the Mathematics General Education Core.**

MGF 1131 Mathematics in Context (3.00 Credits)
Prerequisite Appropriate score on an SPC approved math assessment or
Completion of required developmental education coursework

Through this course, students will experience the practicality of mathematics in a global society. Students will engage in the applications of tools and techniques of mathematics in a variety of contextual situations from everyday life. This course is appropriate for students in a wide range of disciplines/programs.

## MHF-Mathematics: History and Foundations

MHF 4404 History of Mathematics (3.00 Credits)
Prerequisite MAC 2311 with a minimum grade of C
This course is designed for students who have an interest in the history of mathematics. It is a chronological study of mathematics starting prior to sixth century B.C. and ending with present time. Students will examine historical developments as well as connections within mathematics through readings, discussions, and applications.

## MMC-Mass Media Communication

MMC 2000 Introduction to Mass Communications (3.00 Credits)
Prerequisite ENC 0025 or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test

In the progressive field of mass communications there exists an impact of mass media that is a vital presence in life and society. The historical evolution and contemporary developments provide an understanding of the importance of mass communications by examining topics such as newspapers and journalism, magazine and book publishing, radio and television broadcasting, motion pictures, music recording, Internet and social media, advertising and public relations, media law and ethics.

MMC 2100 Writing for the Mass Media (3.00 Credits)
((Prerequisite ENC 1101 or Prerequisite ENC 1101H) and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate scores on the college placement test

Multimedia platforms are the foundation for instruction in this course which includes writing assignments for the Internet, print, audio, video, and social media. New technology issues, current events, and the importance of diversity and ethics in media writing are addressed.

MMC 2700 Mass Media and Popular Culture (3.00 Credits)
(Prerequisite ENC 0025 or Prerequisite ENC 0056) or Prerequisite EAP 1695 or Prerequisite appropriate score on the college placement test

The impact of popular culture is analyzed in this course by exploring important aspects of pop culture in mass media and social media, including television, film, advertising, music, print, radio, pop language, and global culture. Students will identify what pop culture is, examine the historical origins of pop culture, and gain critical insight into the impact of assumptions, questions of power, and ideology that reflect mass media in a global society.

MMC 2949 Internship (1.0-3.00 Credits)
Pre- or Co-requisite MMC 2000 with a minimum grade of C and Permission of the Program

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to his/her program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations. To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

## MNA-Management: Applied

MNA 1751 Customer Service I: Developing A Spirit of Customer Service (1.00 Credits)
No Requisites Required
This course is designed to assist those who deal with clients either face-to-face or through electronic media. Students will examine the role of customer service as a competitive business strategy, explore the role of communication in building customer relationships, and be introduced to techniques for dealing with difficult customer situations including challenges that can be produced by generational, linguistic and cultural diversity.

## MSL-Military Science and Leadership

MSL 1001C Leadership and Personnel Development (2.00 Credits)
No Requisites Required
This course introduces cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as critical thinking, goal setting, time management, and physical and mental fitness (resiliency training) relate to leadership, officership, and the Army profession. The focus is on developing basic knowledge and comprehension of Army leadership dimensions while gaining a big picture understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

MSL 1002C Introduction to Tactical Leadership (2.00 Credits)
No Requisites Required
This course is an overview of leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. Students will explore dimensions of leadership attributes and core leader competencies in the context of practical, hands-on, and interactive exercises. Continued emphasis is placed on recruitment and retention of students. Cadre role models and the building of stronger relationships among the students through common experience and practical interaction are critical aspects of the course experience.

MSL 2101C Innovative Team Leadership (2.00 Credits)
No Requisites Required
This course explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership requirements model. Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs. Focus is on continued development of the knowledge of leadership attributes and core leader competencies through an understanding of Army rank, structure, duties and basic aspects of land navigation and squad tactics. Case studies provide tangible context for learning the Soldier's Creed and Warrior Ethos as they apply in the operational environment (OE).

MSL 2102C Foundations of Tactical Leadership (2.00 Credits)
No Requisites Required
This course examines the challenges of leading tactical teams in the OE. The course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army leadership requirements model explores the dynamics of adaptive leadership in the context of military operations. MSL 2102 provides a smooth transition into MSL 3201. Cadets develop greater self awareness as they assess their own leadership styles and practice communication and team building skills. OE case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios.

MSL 2900 Army Physical Readiness (1.00 Credits)
No Requisites Required
This course will train students in the unique role of Army physical readiness in sustaining military operations. It will also prepare students to plan, prepare and conduct military fitness training.(Note: This course may be taken for 8 semesters, but only 4 credit hours will be counted toward the program.)

MSL 3201C Adaptive Team Leadership (3.00 Credits)
No Requisites Required
The student is challenged to study, practice, and evaluate adaptive team leadership skills as presented with the demands of the ROTC Leader Development and Assessment Course (LDAC). Challenging scenarios related to small unit tactical operations are used to develop self awareness and critical thinking skills. The student will receive systematic and specific feedback on their leadership abilities.

MSL 4302C Leadership in a Complex World (2.00 Credits)
No Requisites Required
This course explores the dynamics of leading in the complex situations of current military operations in the contemporary operating environment (COE). The student will examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. The student will also explore aspects of interacting with non-government organizations, civilians on the battlefield, and host nation support.

## MTG-Mathematics

MTG 3212 Modern Geometries (4.00 Credits)
Prerequisite MAC 2311 with a minimum grade of C

This course presents the axioms, basic concepts, proofs and constructions of Euclidean geometry involving line segments, angles, triangles, polygons, circles, parallel lines and similarity. Constructions are made using both compass and straightedge and interactive geometry software. The course also presents basic concepts of non-Euclidean geometries including hyperbolic and spherical. Students will use technology to make conjectures and discoveries concerning geometrical relationships and construct geometric proofs.

## MUC-Music: Composition

MUC 1101 Introduction to Music Composition (2.00 Credits)
Prerequisite MUT 1001or equivalent and Permission of the Program
Students practice compositional skills with assignments and projects to demonstrate an understanding of the basic materials, devices, and processes for composing music in the small forms. The course is a survey of styles of the major creative movements, with emphasis on twentieth century techniques. (Note: This course may be taken up to 2 times for a total of 4 credits. One hour private lesson plus one hour seminar class each week.)

MUC 1102 Music Composition II: Strings and Woodwinds (2.00 Credits)
Prerequisite MUC 1101 and Permission of the Program
Continuation of MUC 1101, but with an emphasis on (a) orchestration technique in composing for the string instruments both as solo instruments, and as a family. Projects for duo, trio, string quartet, and string orchestra; and (b) for the woodwind family. (Note: This course may be taken up to 2 times for a total of 4 credits. One-hour private lesson plus one-hour seminar class each week.)

MUC 1104 Music Composition III: Brass and Percussion (2.00 Credits)
Prerequisite MUC 1101 and Permission of the Program
Continuation of MUC 1101, but with an emphasis on (a) orchestration technique in composing for the brass instruments both as solo instruments, and as a family. Projects for duo, trio, brass quartet and quintet, and for brass choir; and (b) for the percussion family. (Note: This course may be taken up to times for a total of 4 credits. One-hour private lesson plus one-hour seminar class each week.)

MUC 1621 Composition in Modern Media (2.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and (Prerequisite MUT 1001 with a minimum grade of C or Permission of the Program)
Students practice compositional skills with assignments and projects to demonstrate an understanding of the basic materials, devices, and processes for composing and arranging contemporary music in the most common popular forms. The course is a survey of styles of the current creative movements, with emphasis on both acoustic and electronic techniques. (Note This course may be taken up to 2 times for a total of 4 credits. One-hour private lesson plus one-hour seminar class each week.)

MUC 2000 Songwriting (3.00 Credits)
Prerequisite MUT 1001 with a minimum grade of C and Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS)
This course is designed to introduce students to the craft of songwriting as well as to help experienced songwriters discover new strategies to expand their technique. Focus is on contemporary music, especially, but not limited to, popular music and jazz. The course provides information that can be immediately applied to composing songs.

MUC 2001 Songwriting II (2.00 Credits)
Prerequisite MUC 2000 with a minimum grade of C
This course offers a systematic approach to constructing strong, expressive melodies in commercial songwriting. It encompasses: creating memorable melodies, using counterpoint effectively in song construction, developing melodic ideas over different modes, and incorporating melodies across chords into different song sections.

MUC 2622 Composition in Modern Media 2 (1.0-2.00 Credits)
Prerequisite MUT 2342 with a minimum grade of C and Prerequisite MUT 2342L with a minimum grade of C and Pre- or Co-requisite MUC 2940 with a minimum grade of C and Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS)
This course is the advanced level of Contemporary Composing and Arranging. Students practice compositional skills with assignments and projects to demonstrate an advanced understanding of the full spectrum of materials, devices, and processes for composing and arranging contemporary music in a wide range of popular forms. The course is an in-depth discussion and analysis of styles used in the current creative movements, with emphasis on both acoustic and electronic techniques. (Note: This course may be taken up to 4 times for a total of 4 credits.) One-hour private lesson plus one-hour seminar class each week. (Note: Course changed from 2 credits to 1 credit, Spring 2018 (0540). Students in requirement terms prior to Spring 2018 (0540) should register for the 2 credit offering. Please contact the MIRAS-AS program office for further information.)

MUC 2631 Avid Pro Tools for the Composer (3.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Prerequisite MUT 2341 with a minimum grade of C and Prerequisite MUM 2609 with a minimum grade of C and (Prerequisite MUM 2601C with a minimum grade of C or (Prerequisite MUM 2601 with a minimum grade of C and Prerequisite MUM 2601L with a minimum grade of C))
This course is the advanced level study of composing while using specific computer-based production platforms. Students practice compositional skills with assignments and projects to demonstrate an advanced understanding of the tools available to the composer when using the Avid Pro Tools software and hardware.

MUC 2940 Music Composition Internship (1.00 Credits)
Pre- or Co-requisite MUC 1621 with a minimum grade of C and Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS)
This course is designed to provide students with major-related, supervised, evaluated practical training work experiences in music composition which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. (Note: The student must fulfill the requirement of 60 on-the-job hours for each credit earned.)

## MUH-Music: History/Musicology

MUH 1110 Introduction to Music History (3.00 Credits)
Prerequisite Dev Level 2 Writing Met and Prerequisite Dev Level 2 Reading Met

This course is designed to acquaint the student with musical styles and their historical backgrounds. Emphasis is placed on musical forms and performance mediums and will include selections from the Western canon. It is intended for music majors but open to all students who are able to read music.

## MUL-Music Literature

MUL 1010 Music Appreciation (3.00 Credits)
Prerequisite Dev Level 2 Writing Met

In this course, students will survey the history of classical music from antiquity to the modern period, focusing on western music. The curriculum may also integrate a variety of popular and global styles where appropriate. ***State Core Course Description (State Rule 6A-14.0303).*** This course partially satisfies the writing requirements outlined in the General Education Requirements.**This course satisfies the Humanities General Education Core and SPC Enhanced World View requirements.** Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

## MUM-Music: Commercial

MUM 0001 Music Industry Recording Arts Orientation (0.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) or Admission to Audio Production and Engineering (Certificate with Financial Aid Eligibility) (AUDIOPE-CT)

MUM 0001 Music Industry Recording Arts (MIRA) Orientation provides an overview of the music industry, preparing students for success in the SPC MIRA-AS program. The course fulfills multiple goals. First, students engage in a survey of music technology, business practice, and entrepreneurial topics presented by an assortment of faculty and guest speakers. Second, students complete a personalized academic pathway with guidance.

MUM 1001 Apple Macintosh Foundations (1.00 Credits)
No Requisites Required
This course is specifically designed to serve the incoming student that does not have familiarity with the Apple Macintosh operating system's conventions. The Music Industry/Recording Arts program (MIRA-AS) uses Apple computers exclusively, and this course will assist the student that is unfamiliar with the platform get a solid foundation in order to begin their studies. (Note: This course satisfies SPC's computer competency requirement effective Spring 2018).

MUM 1034 Vocal Coaching For The Recording Studio (2.00 Credits)
Prerequisite Audition required.
This course is for vocal students in the first year of study in the music industry recording arts program. The instruction concentrates on training singers who are preparing for a career in commercial singing, with a focus of the physical processes of voice, effective vocal recording technique, and the study and development of music promotional materials for the vocalist. Class activities involve both individual and group singing experiences. (Nore: This course may be taken up to 2 times for a total of 4 credits.)

MUM 1623 Electronic Music: Synthesis and Sampling I (3.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Prerequisite MUM 0001 and Prerequisite MUS 1360 with a minimum grade of C
This course is the first of a two-semester curriculum exploring how electronic music synthesis and sampling is used in modern music production. The history of synthesis, analog sound reproduction, hardware component types, and hands-on practical application are areas of study.

MUM 1629 Audio Mixing Techniques I (2.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and (Prerequisite MUM 2600 with a minimum grade of C or Permission of the Program)
This course is the study of contemporary audio engineering techniques. Fundamental aspects of working in the mixing phase of record production are topics of study and practice, including: sound aesthetics and balance priorities, signal flow and routing concepts, signal processing types and their mix-specific applications. Through assignments and examples, a practical foundation in the mixing engineer's skill-set will be developed.

MUM 1629L Audio Mixing Techniques I Lab (1.00 Credits)
Pre- or Co-requisite MUM 1629
This course serves to provide the student with an applied, practical environment to work with advanced audio mixing techniques using concepts put forth in MUM 1629 to computer-based recording and mixing set-ups. Skills will be developed that will enable the student to work in an audio mixing environment at a beginning to intermediate level.

MUM 1662 Live Sound Reinforcement Techniques (3.00 Credits)
Pre- or Co-requisite MUM 2600 with a minimum grade of C and Pre- or Co-requisite MUS 1621 with a minimum grade of C and Pre- or Co-requisite MUM 1942 and (Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) or Admission to Audio Production and Engineering (Certificate with Financial Aid Eligibility) (AUDIOPE-CT))
This course is the study of contemporary live sound reinforcement engineering techniques. All aspects of working in the live sound environment such as; audio component types, venue acoustical considerations, signal processing, application specific technical considerations, microphone techniques, mixing techniques, and sound crew protocol and common practice are topics of study.

MUM 1942 Internship: Sound Engineering I (1.0-3.00 Credits)
Pre- or Co-requisite MUM 2600 with a minimum grade of C and Pre- or Co-requisite MUS 1621 with a minimum grade of C and Pre- or Co-requisite MUM 1662 with a minimum grade of C and (Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) or Admission to Audio Production and Engineering (Certificate with Financial Aid Eligibility) (AUDIOPE-CT))
This course is the first of two semesters of study, and is designed to enable students to evolve individually, and as a group, toward the utilization of sound engineering technology in a professional setting. Students will utilize audio engineering skills and techniques acquired in the classroom and apply these techniques in a pre-determined audio recording or live sound reinforcement situation. Students will explore their audio production discipline in a direct supervised, on-site, training program/internship for knowledge and experience. The emphasis will be a "hands-on" approach working with other students in an appropriately equipped performance venue and incorporating academic discussions and practices with job related experience. (Note: This course may be taken up to 3 times for a total of 3 credits. The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to other assignments.)

MUM 2035 Vocal Coaching for the Recording Studio II (2.00 Credits)
(Prerequisite MUM 1034 or Permission of the Program) and Prerequisite Audition required
This course is for the music major in the second year of study in the secondary performance area. The instruction concentrates on training singers who are preparing for a career in commercial singing, with a focus of the physical processes of voice, effective vocal recording technique, group performance blend, stylistic adjustment, and performance discipline in a studio setting. Class activities involve both individual and group singing experiences. (Note: This course may be taken up to 2 times for a total of 4 credits.)

MUM 2313 Legal Issues in Music (3.00 Credits)
Prerequisite MUM 0001 and Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS)
This course is intended to provide a comprehensive overview of basic legal concepts and laws a professional in the music and recording arts industry should master including those concerning intellectual property, agency, business formation, employment and contracts to better prepare and protect the professional. Topics covered include the creation and protection of intellectual property, the meaning of agency relationships and various contract formation and legal issues specific to music and recording arts.

MUM 2600 Professional DAW Application (3.00 Credits)
Prerequisite MUM 0001 and Prerequisite MUS 1360 with a minimum grade of C and (Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) or Admission to Audio Production and Engineering (Certificate with Financial Aid Eligibility) (AUDIOPE-CT))

This course in the music technology sequence centers on the use of professional Digital Audio Workstations (DAWs). It presents recording concepts, historical milestones, signal flow theory, analog and digital basics, studio protocol and infrastructure, and critical music technology nomenclature.

MUM 2601 Studio Recording Techniques & Music Production (3.00 Credits)
Prerequisite MUM 2600 with a minimum grade of C and Pre- or Co-requisite MUM 2601L with a minimum grade of C and (Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) or Admission to Audio Production and Engineering (Certificate with Financial Aid Eligibility) (AUDIOPE-CT))

This course in the music technology sequence presents techniques used in working in the recording studio environment. Content includes utilization of microphones, recording consoles, outboard gear, and participating in introductory recording studio sessions. (Note: Credit is only given for MUM 2601/L or MUM 2601C.)

MUM 2601C Studio Recording Techniques & Music Production with Lab (4.00 Credits)
Prerequisite MUM 2600 with a minimum grade of C and (Admission to Audio Production and Engineering (Certificate with Financial Aid Eligibility) (AUDIOPE-CT) or Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS))

This course in the music technology sequence presents techniques used in working in the recording studio environment. Content includes utilization of microphones, recording consoles, outboard gear, and participating in introductory recording studio sessions. (Note: Credit is only given for MUM 2601C or MUM 2601/L.)

MUM 2601L Studio Recording Techniques & Music Production Lab (1.00 Credits)
Pre- or Co-requisite MUM 2600 with a minimum grade of C and (Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) or Admission to Audio Production and Engineering (Certificate with Financial Aid Eligibility) (AUDIOPE-CT))

This course in the music technology sequence presents techniques used in working in the recording studio environment. Content includes utilization of microphones, recording consoles, outboard gear, and participating in introductory recording studio sessions. (Note: Credit is only given for MUM 2601/L or MUM 2601C.)

MUM 2602 Collaborative Music Production and Recording Studio Techniques (3.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Pre- or Co-requisite MUM 2602L with a minimum grade of C and (Prerequisite MUM 2601C with a minimum grade of C or (Prerequisite MUM 2601 with a minimum grade of C and Prerequisite MUM 2601L with a minimum grade of C))

This third course in the music technology sequence presents advanced techniques used in working with Pro Tools hardware and software. Professional recording, editing, and mix-down techniques will be explored. (Note: This course will prepare students for MIRA Capstone Courses. Credit is only given for MUM 2602/L or MUM 2602C.)

MUM 2602C Collaborative Music Production & Recording Studio Techniques with Lab (4.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and (Prerequisite MUM 2601C with a minimum grade of C or (Prerequisite MUM 2601 with a minimum grade of C and Prerequisite MUM 2601L with a minimum grade of C))

This course in the music technology sequence presents advanced techniques used in working with Pro Tools hardware and software. Professional recording, editing, and mix-down techniques will be explored. (Note: Credit is only given for MUM 2602C or MUM 2602/L.)

MUM 2602L Collaborative Music Production and Recording Studio Techniques Lab (1.00 Credits)
Pre- or Co-requisite MUM 2602 and Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS)

This course provides opportunities for students to practice digital audio manipulation in a studio setting. The course of study will include advanced recording, editing, and mix-down techniques within the Pro Tools environment. (Note: This course will prepare students for MIRA Capstone courses. Credit is only given for MUM 2602/L or MUM 2602C.)

MUM 2603 Advanced Music Production (3.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Permission of the Program and (Prerequisite MUM 2602C with a minimum grade of B or (Prerequisite MUM 2602 with a minimum grade of B and Prerequisite MUM 2602L with a minimum grade of B))

Advanced Music Production presents live recording and professional level production techniques used in working with Pro Tools hardware and software. The course of study will include applied recording, editing, and mix-down techniques in a "real world" setting, utilizing learned skills to capture a live performance and present a final mix for evaluation.

MUM 2609 Critical Listening: Analysis of Contemporary Production Techniques (3.00 Credits)
Prerequisite MUM 2600 with a minimum grade of C and Prerequisite MUS 1621 with a minimum grade of C and (Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) or Admission to Audio Production and Engineering (Certificate with Financial Aid Eligibility) (AUDIOPE-CT))
This course is an in-depth study of production techniques used in contemporary popular music. Song structure, style characteristics, arranging techniques, recording methods, and mix-down and mastering processes will be analyzed and discussed.

MUM 2610 Music Production Foundations (3.00 Credits)
Pre- or Co-requisite MUM 2670
This course is specifically designed to serve the Avid Certified Pro Tools Expert and Sound Technologist Certificate program (AVID-CT). In conjunction with the Avid Pro Tools training, the student will train in basic recording techniques, signal flow, basic acoustic principles, sonic manipulation, studio etiquette, and job skills preparation. Upon completion of the Avid Certified Pro Tools Expert and Sound Technologist program, the student is awarded a college certificate. (Note: These courses will apply toward the AS degree in Music Industry/Recording Arts.)

MUM 2611 Acoustic and Remote Recording Techniques (2.00 Credits)
Prerequisite MUM 2601 and Prerequisite MUM 2601L and Prerequisite MUS 1621 and Prerequisite MUT 1001 and Pre- or Co-requisite MUM 2945
This course is an in-depth study of techniques used in recording classical, jazz and other acoustic music in studios as well as performance-venues and other remote locations. Stereo microphone techniques, recording methods and media, mix-down and post-production processes will be analyzed and discussed. Through lectures, demonstrations and co-requisite internship, students will gain practical experience in cooperation with local orchestra musicians, ensembles and soloists.

MUM 2612 Critical Listening II: Analysis of Contemporary Production Techniques (3.00 Credits)
Prerequisite MUM 2609 with a minimum grade of C
This course is an advanced level study of production techniques used in contemporary popular music. It is designed to be the second semester study of in-depth listening skills required of the mixing and mastering specialist. Listening examples will provide an overview of the history of innovations and revolutions in analog and digital technology. Sound aesthetics, stylistic trends, recording media and methods, mixing techniques, signal processing and mastering approaches will be analyzed and discussed.

MUM 2640 Post Production Sound (3.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Prerequisite MUS 1621 with a minimum grade of C and (Prerequisite MUM 2601C with a minimum grade of C or (Prerequisite MUM 2601 with a minimum grade of C and Prerequisite MUM 2601L with a minimum grade of C))
This course is the study of contemporary audio post-production engineering techniques. The goal of this curriculum is to prepare the student for a career in post-production audio. Dialogue editing, sound effects, automated dialogue replacement (ADR), music editing, mixing, and delivery methods are topics of study.

MUM 2670 Avid Pro Tools 101/110 (3.00 Credits)
Prerequisite MUM 0001 and Prerequisite MUS 1360 with a minimum grade of C and Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS)
This course is the first semester of a two-semester course structure preparing the student for the Pro Tools Operator Certification Exam administered by Avid. This course is the introductory to advanced sequence for Avid Pro Tools LE software and hardware. (Note: The student will be eligible to take the Pro Tools 101 and Pro Tools 110 exams at the culmination of this course.)

MUM 2671 Avid Pro Tools 201/210 (3.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Prerequisite MUM 2670 with a minimum grade of C
This course is the second semester of a two-semester course structure preparing the student for the Pro Tools Operator Certification Exam administered by Avid. This course is the intermediate to advanced sequence for Avid Pro Tools HD software and hardware. (Note: The student will be eligible to take the Pro Tools 201 and Pro Tools 210 exams at the culmination of this course, and achieve Certified Pro Tools Operator status.)

MUM 2677 Performing Arts and Event Management (3.00 Credits)
Prerequisite MUM 1662 with a minimum grade of C and Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS)
This course is an in-depth study of contemporary production techniques and tools used in concert and event production. Students will develop a familiarity and gain practical skills required for successful event production and management.

MUM 2678 Audio Mixing Techniques II (3.00 Credits)
Prerequisite MUM 1629 with a minimum grade of C and Prerequisite MUM 1629L with a minimum grade of C and (Pre- or Co-requisite MUM 2678L with a minimum grade of C or Permission of the Department) and (Prerequisite MUM 2601C with a minimum grade of C or (Prerequisite MUM 2601 with a minimum grade of C and Prerequisite MUM 2601L with a minimum grade of C))
This course is a study of advanced contemporary audio engineering techniques. All aspects of working in the mixing phase of record production are topics of study and practice including; advanced processing techniques and effectual problem solving, automated mixing workflows and control surface concepts, sound/balance aesthetic decision making and mix-translation objectives. Assignments and exercises will add breadth and depth to students' mixing experience, while following a model of industry-established collaborative roles, and exercises in creative communication protocol and common practice.

MUM 2678L Audio Mixing Techniques II Lab (1.00 Credits)
Pre- or Co-requisite MUM 2678
This course serves to provide the student with an applied, practical environment to work with advanced audio mixing techniques using concepts put forth in MUM 2678 with computer-based recording and mixing set-ups. Skills will be developed that will enable the student to work in an audio mixing environment at an intermediate to advanced level.

MUM 2679 Avid Pro Tools 310M ( Expert Certification) (3.00 Credits)
Prerequisite MUM 2671
This course is a third semester of a three semester course structure preparing the student for the Pro Tools Operator Expert Certification Exam in Music administered by Avid. This course is the advanced level in the sequence for Avid Pro Tools HD software and hardware. (Note: The student will be eligible to take the Avid Pro Tools 310M exams at the culmination of this course, and achieve Expert Pro Tools Operator status.)

MUM 2680 Audio Technician Foundations (3.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Prerequisite MUS 1360 with a minimum grade of C

This is a project-driven course that offers beginning to intermediate study and application of practical skills and concepts essential to career-paths in audio engineering. Readings, discussion, and lab-sessions will focus on technical procedures, studio troubleshooting and basic electronics. Projects will involve basic wiring/ soldering and assembly of cables and electronic equipment kits, capturing convolution reverb impulses and working within established methodologies for solving basic electronic, signal-chain and wiring issues. Exercises and listening sessions will focus on comparisons and evaluations, testing and setup of recording hardware and software found commonly in studio settings. The student will gain confidence and skill in establishing intuitive problem solving and establish a self-sufficiency with equipment and technology that will provide value whether as an entry-level studio employee, an entrepreneurial studio owner, or a live sound engineer.

MUM 2681 Audio for Broadcast Foundation (3.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Prerequisite MUM 2600 with a minimum grade of C
This course is the study of contemporary audio for broadcast production engineering techniques. The goal of this curriculum is to prepare the student for a career in "over-the-air" and "internet" radio audio. Voice-over production, show construction, script writing, music editing, mixing, and delivery preparation are topics of study. The student will be prepared to participate in the MIRA Internet Radio Club for real-time production and broadcast.

MUM 2682 Applied Mixing Techniques (2.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Prerequisite MUM 2678 with a minimum grade of C
This course offers students individual, directed study in contemporary audio mixing techniques. Applying skills developed in prerequisite classes, students will work directly with instructor and in peer-review class-meetings, focusing production classes and disciplines. This process will challenge on self-originated projects, as well as "pool" projects, pairing them for collaboration with students working in other music further refinement of technical skills, and offer essential experience in students' communication and collaboration aptitudes that will prove a distinct advantage as they enter this competitive industry. (Note: This course may be taken up to 2 times for a total of 4 credits. One hour private lesson plus one hour seminar/peer-review class each week.)

MUM 2707 Practical Music Business (3.00 Credits)
Prerequisite MUM 0001 and Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS)
This course covers the business and promotion of music and its related professions. Included are discussions and projects for the creation, growing, and marketing of your musical specialty. Topics include: developing and branding your talent, networking with others in the field of music to promote your profession, contract terms and negotiations, pricing, and the importance of maximizing opportunity. The retail and wholesale music business, musical instruction and working with musical volunteers will also be discussed.

MUM 2944 Internship: Studio Engineering I (3.00 Credits)
(Prerequisite MUM 2602 and Prerequisite MUT 1001) or Permission of the Program
The Studio Engineering internship is designed to prepare and coordinate in-field experience for advanced students in a professional recording industry setting, such as recording studios, audio post-production facilities, or broadcast studios. Internship should help students to advance their skills and abilities through practical application of techniques and concepts discussed in other courses. The internship experience should also provide opportunities to further develop professionalism, problem-solving, resourcefulness and self-reliance, and may offer chances to establish contacts within the industry that lead to entry-level employment.

MUM 2945 Internship: Sound Engineering II (1.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Prerequisite MUM 1942 with a minimum grade of C
This course is the second of two semesters of study, and is designed to enable students to evolve individually, and as a group, toward the advanced utilization of sound engineering technology in a professional setting. Students will utilize audio engineering skills and techniques acquired in the classroom and previous internships, and apply these techniques in a pre-determined audio recording or live sound reinforcement situation. Students will explore their audio production discipline in a non-direct supervised, on-site, training program/internship for knowledge and experience. The emphasis will be a “hands-on” approach working with other students in an appropriately equipped performance venue and incorporating academic discussions and practices with job related experience. (Note: The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to other assignments.)

## MUN-Musical Ensembles

MUN 1031 Rock Ensemble I (1.00 Credits)
Prerequisite Audition required.
Open to both instrumentalists (any instruments) and singers, this course is the study and performance of commercial music. Emphasis is placed on learning a wide variety of popular music styles heard on radio, television, soundtracks and Web-based music distribution systems. (Note: This course may be taken up to 6 times for a total of 6 credits.)

MUN 1032 Rock Ensemble II (1.00 Credits)
Prerequisite Audition required.
Open to both instrumentalists (any instruments) and singers, this course is a continuation of Rock Ensemble I and is a more advanced study of commercial music performance. Members should be competent on their instruments and/or voice and have fluency in music reading and knowledge of chord symbols. (Note: This course may be taken up to 6 times for a total of 6 credits.)

MUN 1120 College Band (1.00 Credits)
Prerequisite Audition required.
This course is the study and performance of standard band literature. Emphasis is placed on exposure and learning the highest quality literature for winds and percussion through rehearsal and performance. Membership is comprised of SPC Music Majors and community members. (Note: This course may be taken up to 6 times for a total of 6 credits).

MUN 1140 Wind Symphony (1.00 Credits)
Prerequisite Audition required.
This course is the study and performance of standard band and wind ensemble literature. Emphasis is placed on exposure and learning the highest quality literature for winds and percussion through rehearsal and performance. Membership is comprised of SPC Music Majors and community members. (Note: Acceptance into this ensemble is highly selective. SPC Music Majors participating in this ensemble must also be enrolled in COLLEGE BAND, MUN 1120. This course may be taken up to 6 times for a total of 6 credits.)

MUN 1210 College Orchestra (1.00 Credits)
Prerequisite Audition required or Permission of the Program
The College Orchestra provides instrumentalists in the College and community an opportunity to perform works representative of a broad spectrum of orchestral literature, refine techniques of ensemble playing, and present concerts each term. (Note: Membership is by permission of the director. Music majors who are string players are required to participate. This course may be taken up to six times for a total of 6 credits.)

MUN 1310 College Chorus (1.00 Credits)
No Requisites Required
Open to all students, non-music majors welcomed. The College Chorus is both a training organization and a performance group. Basic techniques of singing are developed through group and sectional rehearsals. This training and the preparation of works for performance, with the experience inherent in this learning process, take precedence. Basic repertoire and rehearsal techniques, valuable tools in the music profession, are also emphasized. (Note: This course may be taken up to 6 times for a total of 6 credits).

MUN 1340 Madrigalians (1.00 Credits)
Pre- or Co-requisite MUN 1310
This course is offered as a select choral performance ensemble to those students who have successfully auditioned for the director. Survey and performance of secular choral music from the sixteenth through the twenty-first centuries will be conducted during the semester. Extensive sight-reading of ensemble literature and frequent performances. Open to all students, non-music majors welcomed. (Note: This course may be taken up to 6 times for a total of 6 credits.)

MUN 1440 Percussion Ensemble (1.00 Credits)
Permission of the Program
This course is the study and performance of literature in the percussion medium. (Note: This course may be taken up to 6 times for a total of 6 credits.)

MUN 1441 Hand Drumming Techniques (1.00 Credits)
No Requisites Required
This course is the study and performance of hand drumming in an ensemble environment. Students will study the many stylistic variations, and instrumental utilization, of hand drumming disciplines across cultural boundaries. The student will be required to perform various percussion and hand drumming techniques in several musical genres. (Note: This course may be taken up to 3 times for a total of 3 credits. Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

MUN 1700 Improvisation Ensemble (1.00 Credits)
No Requisites Required
This course is the study and performance of improvisation in a performance environment. Students will be required to improvise music, in several musical genres.

MUN 1710 Jazz Band (1.00 Credits)
Prerequisite Audition required.
This course is the study and performance of instrumental ensemble music in the jazz and popular medium. (Note: This course may be taken up to 6 times for a total of 6 credits.)

MUN 1712 Jazz Combo II (1.00 Credits)
Prerequisite Audition required.
This course is the study and performance of instrumental and vocal ensemble music in a Jazz Combo setting. Students will be required to play instrumental and vocal music, in several jazz styles.

MUN 1718 Rhythm & Blues Ensemble (1.00 Credits)
Prerequisite Audition required.
This course is the study and performance of instrumental ensemble music in the Rhythm and Blues genre. Students will be required to play instrumental and vocal music, in a Rhythm and Blues style. (Note: This course may be taken up to 6 for a total of 6 credits.)

MUN 1810 Steel Drum Ensemble (1.00 Credits)
Permission of the Program
This course involves the study and performance of percussion literature for the steel drum. (Note: This course may be taken up to 6 times for a total of 6 credits.)

MUN 2004 Recording Studio Ensemble (1.00 Credits)
Prerequisite Audition required.
This course is the study and performance of ensemble music as it is applied in a recording studio setting. Students will be required to play instrumental and vocal music, in a wide variety of genres, for the purpose of recording by production engineers. (Note: This course may be taken up to 6 times for a total of 6 credits.)

MUN 2022 Laptop and Electronic Arts Ensemble (1.00 Credits)
Prerequisite Audition required.
This course explores new combinations of live electronic with acoustic instruments and other media by performing a diverse repertoire of music and new works. (Note: This course may be taken up to 3 times for a total of 3 credits.)

MUN 2719 Rhythm & Blues Ensemble II (1.00 Credits)
Prerequisite Audition required.
This course is the advanced level study and performance of instrumental ensemble music in the Rhythm & Blues genre. Students will be required to play instrumental and vocal music, in a Rhythm & Blues style. (Note: This course may be taken up to 6 times for a total of 6 credits.)

MUN 2720 Contemporary Vocal Performance Fundamentals (1.00 Credits)
No Requisites Required
In this course students will work on basic live performance skills including microphone technique, stage presence, critical listening, and musicianship through a mixture of performance and observation. This would be the first class in a series that would feed into a Live Performance Techniques class, where students would learn to work with a live band. (Note: This course can be taken up to 2 times for a total of 2 credits.)

MUN 2940 Music Internship Ensemble (1.00 Credits)
Permission of the Program
This course is designed to provide students with major-related, supervised, evaluated practical training work experiences in music performance which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. (Note: The student must fulfill the requirement of 60 on-the-job hours for each credit earned.)

## MUO-Music: Opera/Musical Theatre

MUO 1001 Musical Theatre Workshop (1.00 Credits)
Prerequisite Audition required.
This is a practical course offering varied experience in the elements of musical theatre. The general repertoire will be surveyed to establish an acquaintance with the literature and one or more works will be produced. A staged production of scenes from one or more works will be presented. (Note: This course may be taken up to 6 times for a total of 6 credits.)

## MUS-Music

MUS 1010 Student Recital (0.00 Credits)
Pre- or Co-requisite Applied Music and Pre- or Co-requisite MVK 1311principal instrument (such as MVK 1311, etc)
This course requires attendance and participation in student recitals. Students will attend a workshop in recital etiquette and protocols. (Note: Students will participate in performance classes in their respective performing area at least once prior to scheduled recitals. Students will be required to attend all and perform in one of four or five scheduled music recitals each session.)

MUS 1360 Digital Audio Workstation, Sound, & Notation Software Fundamentals (3.00 Credits)
Pre- or Co-requisite MUM 0001 and (Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) or Admission to Audio Production and Engineering (Certificate with Financial Aid Eligibility) (AUDIOPE-CT))

This course introduces foundational skills in digital audio production, recording, and music creation using computer-based tools. Students learn basic audio recording, editing, MIDI sequencing, virtual instruments, and notation while working with digital audio workstations. Emphasis is placed on producing clean, well-organized audio and music projects that meet professional standards.

MUS 1621 Acoustics and Psychoacoustics (3.00 Credits)
(Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) or Admission to Audio Production and Engineering (Certificate with Financial Aid Eligibility) (AUDIOPE-CT)) and Pre- or Co-requisite MUM 0001
This introductory course is a presentation of modern acoustic and psychoacoustic concepts as they pertain to music recording and production. The topics covered are sound generation, waveform theory, audio perception, electrical grounding concepts, applied acoustical studio design, listening environment analysis, and critical audio technology nomenclature. This course will prepare students for all levels of Music Technology and Recording Techniques.

## MUT-Music: Theory

MUT 1001 Fundamentals Of Music (3.00 Credits)
No Requisites Required
This course will enable students to acquire a thorough working knowledge of the basic rudiments necessary for further study of musical theory and musical performance. This course provides knowledge for future success in Music Theory, Introduction to Music Theory, and Applied Music courses. Students will demonstrate knowledge of rhythmic, melodic, and harmonic fundamentals utilizing music notation and the keyboard. (Program Learning Outcome – PLO)

MUT 1111 Music Theory I (3.00 Credits)
(Prerequisite MUT 1001 or Permission of the Program) and Pre- or Co-requisite MUT 1241
MUT 1111 explores Western Music's fundamental concepts of notation, rhythm, melody, harmony, and counterpoint from a historical standpoint with examples from music history's Medieval, Renaissance, Baroque, Classical, Romantic, and Contemporary eras. Students in MUT 1111 are expected to have completed the prerequisite MUT 1001 Fundamentals of Music course or demonstrate proficient knowledge of MUT 1001 learning outcomes. MUT 1111's circular curriculum approach contains repetition and overlap of some of the objectives present in MUT 1001, with the goal of achieving deeper meaning and fluency of content beyond the cursory knowledge intended in the prerequisite course.

MUT 1112 Music Theory II (3.00 Credits)
(Prerequisite MUT 1111 or Permission of the Program) and Pre- or Co-requisite MUT 1242
This course is designed as a continuation of Music Theory I, with emphasis on harmonization, voice-leading, and figured bass. Compositional techniques for expanding melodic and harmonic frameworks are investigated through the exploration of phrases, cadences, and applied chords.

MUT 1241 Aural Theory I (1.00 Credits)
(Prerequisite MUT 1001 and Pre- or Co-requisite MUT 1111) or Permission of the Program
MUT 1241 provides an introduction to ear-training and sight-singing. An activities based course, MUT 1241 develops skills involving the identifying and notating live and recorded music (aural input), and audiation of written rhythms and melodies demonstrated via vocal performance.

MUT 1242 Aural Theory II (1.00 Credits)
(Prerequisite MUT 1241 or Permission of the Program) and Pre- or Co-requisite MUT 1112
This course is designed as a continuation of Aural Theory I, with emphasis on harmonic progressions, applied chords, and melodic phrases. The student will also learn to perform and aurally identify common melodic embellishments and perform figured bass notation.

MUT 2116 Music Theory III (3.00 Credits)
(Prerequisite MUT 1112 or Permission of the Program) and Pre- or Co-requisite MUT 2246
This course is designed as a continuation of Music Theory II, with emphasis on expansion of the harmonic vocabulary. The student will learn how color is added to compositions with chromatic resources ranging from modulation to extended chords, modal mixture, and altered chords. Musical form and interpretation are also considered.

MUT 2117 Music Theory IV (3.00 Credits)
(Prerequisite MUT 2116 or Permission of the Program) and Pre- or Co-requisite MUT 2247
This course is designed as a continuation of Music Theory III, with a spotlight on twentieth century music. The student will learn about modes, scales, and sets. Set theory, serial composition, twelve-tone rows, and post tonal music are explored.

MUT 2246 Aural Theory III (1.00 Credits)
(Prerequisite MUT 1242 or Permission of the Program) and Pre- or Co-requisite MUT 2116
This course is designed as a continuation of Aural Theory II, with emphasis on harmonic expansion including modulations, chromatic approaches to dominant, and form. The student will also learn to perform and aurally identify chromatic music and asymmetrical meters.

MUT 2247 Aural Theory IV (1.00 Credits)
(Prerequisite MUT 2246 or Permission of the Program) and Pre- or Co-requisite MUT 2117
This course is designed as a continuation of Aural Theory III, with emphasis on compositional materials of the twentieth century. The student will explore modes, scales, sets, serialism, and twelve-tone rows through guided listening and performance. The student will also learn new ways to organize rhythm, meter, and duration.

MUT 2341 Contemporary Music Theory I (3.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Prerequisite MUT 1001 with a minimum grade of C
This course is designed to introduce students to the principles of melody, rhythm, and harmony in popular music and jazz from the viewpoint of the contemporary musician. The course provides information that can be immediately applied to composing and arranging music.

MUT 2341L Contemporary Ear Training I (1.00 Credits)
Admission to Music Industry/Recording Arts (Associate in Science) (MIRAS-AS) and Pre- or Co-requisite MUT 2341
Music is a sonic art form and the skill of deep listening is critical for successful commercial musicianship. Students will learn to notate basic rhythms and pitch, and understand the relationships sound and notation. Students will transcribe contemporary music from popular music and jazz sources.

MUT 2342 Contemporary Music Theory II (3.00 Credits)
Prerequisite MUT 2341 with a minimum grade of C and Pre- or Co-requisite MUT 2342L
This course is a continuation of Contemporary Music Theory and Arranging I and explores skills essential to arranging, harmonizing, and voicing, plus instrumentation, and creation of various types of beats. The course culminates with students creating authentic arrangements for rhythm section and popular music recordings.

MUT 2342L Contemporary Ear Training II (1.00 Credits)
Prerequisite MUT 2341L with a minimum grade of C and Pre- or Co-requisite MUT 2342
This course is a continuation of Contemporary Ear Training I, and the student will learn to notate complex rhythms and pitch, and develop the ability to quickly identify chords and progressions. The student will transcribe large forms from popular music and jazz sources. Music is a sonic art form and the skill of deep listening is critical for successful commercial musicianship.

## MVB-Applied Music: Brasses

MVB 1011 Applied Music Enrichment-Trumpet (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 1012 Applied Music Enrichment - French Horn (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 1013 Applied Music Enrichment - Trombone (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for credit total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 1014 Applied Music Enrichment - Baritone Horn (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 1015 Applied Music Enrichment- Tuba (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 1211 Applied Music Secondary -Trumpet (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and trumpet repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 1212 Applied Music Secondary -French Horn (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and French horn repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 1213 Applied Music Secondary - Trombone (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and trombone repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 1214 Applied Musice Secondary - Baritone Horn (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and baritone horn repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 1215 Applied Music Secondary - Tuba (1.0-2.00 Credits)
Prerequisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and tuba repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 1311 Applied Music Principal -Trumpet (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is designed for the music major who has prior private study and whose primary instrument is trumpet. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of trumpet repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVB 1312 Applied Music Principal -French Horn (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is designed for the music major who has prior private study and whose primary instrument is French horn. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of French horn repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVB 1313 Applied Music Principal -Trombone (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is designed for the music major who has prior private study and whose primary instrument is Trombone. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of Trombone repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVB 1314 Applid Music Principal -Baritone Horn (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is designed for the music major who has prior private study and whose primary instrument is baritone horn. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of baritone horn repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVB 1315 Applied Music Principal Tuba (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is designed for the music major who has prior private study and whose primary instrument is tuba. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of tuba repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVB 1317 Contemporary Brass Techniques I (2.00 Credits)
Prerequisite Audition required.
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature related to contemporary music styles. (Note: This course may be taken up to 3 times for a total of 6 credits. One-hour lesson per week.)

MVB 1411 Applied Performance Trumpet (3.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVB 1412 Applied Horn Performance (3.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVB 1413 Applied Trombone Performance (3.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVB 1414 Applied Baritone Horn Performance (3.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVB 1415 Applied Tuba Performance (3.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVB 2021 Applied Music Enrichment - Trumpet (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVB 1011 and is for students in the second year of study who are non-music majors or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 2022 Applied Music Enrichment - French Horn (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVB 1012 and is for students in the second year of study who are non-music majors or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 2023 Applied Music Enrichment - Trombone (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVB 1013 and is for students in the second year of study who are non-music majors or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 2024 Applied Music Enrichment - Baritone Horn (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVB 1014 and is for students in the second year of study who are non-music majors or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 2025 Applied Music Enrichment -Tuba (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVB 1015 and is for students in the second year of study who are non-music majors or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 2221 Applied Music Secondary -Trumpet (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVB 1211 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate approach to the development of technique and trumpet repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 2222 Applied Music Secondary -French Horn (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVB 1212 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate approach to the development of technique and French horn repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 2223 Applied Music Secondary - Trombone (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVB 1213 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate approach to the development of technique and trombone repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week. )

MVB 2224 Applied Musice Secondary - Baritone Horn (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVB 1214 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate approach to the development of technique and baritone horn repertoire. (Note: This course may be taken u to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 2225 Applied Music Secondary -Tuba (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVB 1215 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate approach to the development of technique and tuba repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVB 2321 Applied Music Principal -Trumpet (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is a continuation of MVB 1311 and is designed for the music major who has prior private study and whose primary instrument is trumpet. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of trumpet repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVB 2322 Applied Music Principal -French Horn (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is a continuation of MVB 1312 and is designed for the music major who has prior private study and whose primary instrument is French horn. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of French horn repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVB 2323 Applied Music Principal -Trombone (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is a continuation of MVB 1313 and is designed for the music major who has prior private study and whose primary instrument is Trombone. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of Trombone repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVB 2324 Applied Music Principal -Baritone Horn (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is a continuation of MVB 1314 and is designed for the music major who has prior private study and whose primary instrument is baritone horn. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of baritone horn repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVB 2325 Applied Music Principal Tuba (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is a continuation of MVB 1315 and is designed for the music major who has prior private study and whose primary instrument is tuba. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of tuba repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVB 2327 Contemporary Brass Techniques II (2.00 Credits)
Prerequisite Audition required.
Private instruction. This course is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate to advanced approach to the development of technique and music literature related to contemporary music styles. (Note: This course may be taken up to 3 times for a total of 6 credits. One-hour lesson per week.)

MVB 2421 Applied Trumpet Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Prerequisite Audition required.
This course is designed for the performance music major who has prior private study. This course consists of one hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVB 2422 Applied Horn Performance (3.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVB 2423 Applied Trombone Performance (3.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVB 2424 Applied Baritone Horn Performance (3.00 Credits)
Prerequisite Audition required. . and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVB 2425 Applied Tuba Performance (3.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

## MVJ-Applied Music: Jazz

MVJ 1010 Applied Music Enrichment - Jazz Piano (1.0-2.00 Credits)
No Requisites Required
Private instruction in jazz piano performance. This course is for students in the first year of study who are non-music majors or taking applied music for enrichment. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVJ 1210 Applied Music Secondary - Jazz Piano (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVJ 1310 Applied Music Principal - Jazz Piano (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010and major ensemble and (Pre- or Co-requisite MUN 1120 or Pre- or Co-requisite MUN 1310 or Pre- or Co-requisite MUN 1710)
This course is designed for the music major who has prior private study and whose primary instrument is jazz piano. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the mastery of music literature. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVJ 2020 Applied Music Enrichment - Jazz Piano (1.0-2.00 Credits)
No Requisites Required
Private instruction in jazz piano performance. This course is a continuation of MVJ 1010 and is for students in the second year of study who are non-music majors or taking applied music for enrichment. (Note: This course may be taken up to 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.)

MVJ 2220 Applied Music Secondary - Jazz Piano (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction in jazz piano performance. This course is a continuation of MVJ 1210 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate approach to the development of technique and music literature. (Note: This course may be taken up to 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.)

MVJ 2320 Applied Music Principal - Jazz Piano (2.00 Credits)
Pre- or Co-requisite MUS 1010and major ensemble and (Pre- or Co-requisite MUN 1120 or Pre- or Co-requisite MUN 1310 or Pre- or Co-requisite MUN 1710)
This course is a continuation of MVJ 1310 and is designed for the music major in the second year of study whose primary instrument is jazz piano. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the mastery of music literature. (Note: This course may be taken up to 3 times for a total of 6 credits.)

## MVK-Applied Music: Keyboard

MVK 1011 Applied Music Enrichment - Piano (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. Students may register for 1 or 2 credits. One half-hour lesson or one hour lesson per week.)

MVK 1013 Applied Music Enrichment Organ (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. Students may register for 1 or 2 credits. One half-hour lesson or one hour lesson per week.)

MVK 1111 Class Piano (1.00 Credits)
No Requisites Required
This course is for beginning piano students meeting in groups of six or more. Emphasis is placed on music reading and elementary techniques.

MVK 1115 Popular Piano Techniques (1.0-2.00 Credits)
No Requisites Required
This course is private instruction in contemporary keyboard styles, including pop, rock, jazz, and gospel. Special emphasis is given to stylistic harmonization and improvisation. (Note: One credit is one-half hour lesson per week. Two credits are one hour lesson per week.)

MVK 1211 Applied Music Secondary Piano (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature. (Note: This course may be taken up to 3 times for a total of 6 credits. 1 or 2 credits. One half-hour lesson or one hour lesson per week.)

MVK 1213 Applied Music Secondary - Organ (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature. (Note: This course may be taken up to 3 times for a total of 6 credits. 1 or 2 credits. One half-hour lesson or one hour lesson per week.)

MVK 1215 Contemporary Keyboard Techniques I (2.00 Credits)
Prerequisite Audition required
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature related to contemporary music styles. (Note: This course may be taken up to 3 times for a total of 6 credits. One-hour lesson per week.)

MVK 1311 Applied Music Principal Piano (2.00 Credits)
Pre- or Co-requisite MUS 1010and major ensemble and (Pre- or Co-requisite MUN 1120 or Pre- or Co-requisite MUN 1310) and Prerequisite Audition required.
This course is designed for the music major who has prior private study and whose primary instrument is piano. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the mastery of music literature. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVK 1313 Applied Music Principal Organ (2.00 Credits)
Pre- or Co-requisite MUS 1010and major ensemble and (Pre- or Co-requisite MUN 1120 or Pre- or Co-requisite MUN 1310) and Prerequisite Audition required.
This course is designed for the music major who has prior private study and whose primary instrument is organ. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the mastery of literature. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVK 1411 Applied Piano Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Prerequisite Audition required.
This course is designed for the performance music major who has prior private study. This course consists of one hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small audience of peers and piano faculty to promote confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVK 1413 Applied Organ Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Prerequisite Audition required.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVK 2021 Applied Music Enrichment - Piano (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVK 1011 and is for students in the second year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVK 2023 Applied Music Enrichment - Organ (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVK 1013 and is for students in the second year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVK 2121 Class Piano II (1.00 Credits)
Prerequisite MVK 1111 with a minimum grade of C
As a continuation of Class Piano I, this course is designed to prepare students to pass minimum piano proficiency requirements in music-major programs. There is special emphasis upon harmonization of melodies, improvisation, and sight reading. (Note: This course may be taken up to 3 times for a total of 3 credits.)

MVK 2221 Applied Music Secondary - Piano (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVK 1211 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVK 2223 Applied Music Secondary - Organ (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVK 1213 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVK 2225 Contemporary Keyboard Techniques II (2.00 Credits)
Prerequisite Audition required.
. Private instruction. This course is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate to advanced approach to the development of technique and music literature related to contemporary music styles. (Note: This course may be taken up to 3 times for a total of 6 credits. One-hour lesson per week.)

MVK 2321 Applied Music Principal Piano (2.00 Credits)
Pre- or Co-requisite MUS 1010 and (Pre- or Co-requisite MUN 1120 or Pre- or Co-requisite MUN 1310)
Admission into the course is by audition only. This course is a continuation of MVK 1311 and is designed for the music major who has prior private study and whose primary instrument is piano. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the mastery of music literature. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVK 2323 Applied Music Principal - Organ (2.00 Credits)
Pre- or Co-requisite MUS 1010 and (Pre- or Co-requisite MUN 1120 or Pre- or Co-requisite MUN 1310)
Admission into the course is by audition only. This course is a continuation of MVK 1313 and is designed for the music major who has prior private study and whose primary instrument is organ. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the mastery of literature. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVK 2421 Applied Performance Piano (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Prerequisite Audition required.
. This course is designed for the performance music major who has prior private study. This course consists of one hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small audience of peers and piano faculty to promote confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

MVK 2423 Applied Organ Performance (3.00 Credits)
Prerequisite Admission is by audition only. and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, audience, of peers and piano faculty to promote confidence in solo performance. (Note: This course may be taken up to 3 times for a total of 9 credits.)

## MVP-Applied Music: Percussion

MVP 1011 Applied Music Enrichment - Percussion (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVP 1211 Applied Music Secondary - Percussion (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVP 1311 Applied Music Principal - Percussion (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is designed for the music major who has prior private study and whose primary instrument is saxophone. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of percussion repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVP 1317 Contemporary Drumkit Technique I (2.00 Credits)
Prerequisite Audition required.
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature related to contemporary music styles. (Note: This course may be taken up to 3 times for a total of 6 credits. One-hour lesson per week.)

MVP 1411 Applied Performance - Percussion (3.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 4 times for a total of 12 credits.)

MVP 2021 Applied Music Enrichment - Percussion (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVP 1011 and is for students in the second year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVP 2221 Applied Music Secondary - Percussion (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVP 1211 and is for students in the second year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVP 2321 Applied Music Principal - Percussion (2.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120
This course is a continuation of MVP 1311 and is designed for the music major who has prior private study and whose primary instrument is saxophone. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of percussion repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVP 2327 Contemporary Drumkit Technique II (2.00 Credits)
Prerequisite Audition required.
Private instruction. This course is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate to advanced approach to the development of technique and music literature related to contemporary music styles. (Note: This course may be taken up to 3 times for a total of 6 credits. One-hour lesson per week.)

MVP 2421 Applied Performance - Percussion (3.00 Credits)
Prerequisite Audition required. and Pre- or Co-requisite MUS 1010
This course is designed for the performance music major who has prior private study. This course consists of one hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. (Note: This course may be taken up to 4 times for a total of 12 credits.)

## MVS-Applied Music: Strings

MVS 1011 Applied Music Enrichment Violin (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVS 1012 Applied Music Enrichment Viola (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVS 1013 Applied Music Enrichment Cello (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVS 1014 Applied Music Enrichment String Bass (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVS 1015 Applied Music Enrichment Harp (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVS 1016 Applied Music Enrichment Guitar (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVS 1211 Applied Music Secondary Violin (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and violin repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVS 1212 Applied Music Secondary Viola (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and viola repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVS 1213 Applied Music Secondary Cello (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and cello repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVS 1214 Applied Music Secondary String Bass (1.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and string bass repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVS 1215 Applied Music Secondary Harp (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and harp repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week. )

MVS 1216 Applied Music Secondary Guitar (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and guitar repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits. One half-hour lesson or one hour lesson per week.)

MVS 1311 Applied Music Principal Violin (2.00 Credits)
Pre- or Co-requisite MUS 1010 and (Pre- or Co-requisite MUN 1210 or Pre- or Co-requisite MUN 1310) and Pre- or Co-requisite Audition required.
Admission into the course is by audition only. This course is designed for the music major who has prior private study and whose primary instrument is violin. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of violin repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVS 1312 Applied Music Principal Viola (2.00 Credits)
Pre- or Co-requisite MUS 1010and a major ensemble and (Pre- or Co-requisite MUN 1210 or Pre- or Co-requisite MUN 1310) and Pre- or Co-requisite Audition required.
Admission into the course is by audition only. This course is designed for the music major who has prior private study and whose primary instrument is viola. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of viola repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVS 1313 Applied Music Principal Cello (2.00 Credits)
Pre- or Co-requisite MUS 1010and a major ensemble and (Pre- or Co-requisite MUN 1210 or Pre- or Co-requisite MUN 1310) and Pre- or Co-requisite Audition required.
Admission into the course is by audition only. This course is designed for the music major who has prior private study and whose primary instrument is cello. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of cello repertoire. (Note: This course may be taken up to 3 times for a total of 6 credits.)

MVS 1314 Applied Music Principal String Bass (2.00 Credits)
Pre- or Co-requisite MUS 1010and a major ensemble and (Pre- or Co-requisite MUN 1210 or Pre- or Co-requisite MUN 1310) and Pre- or Co-requisite Admission into the course is by audition only
This course is designed for the music major who has prior private study and whose primary instrument is string bass. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of string bass repertoire. This course may be taken 3 times for a total of 6 credits. 16 contact hours.

MVS 1315 Applied Music Principal Harp (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite a major ensemble and (Pre- or Co-requisite MUN 1210 or Pre- or Co-requisite MUN 1310) and Pre- or Co-requisite Admission into the course is by audition only.
This course is designed for the music major who has prior private study and whose primary instrument is harp. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of harp repertoire. This course may be taken 3 times for a total of 6 credits. 16 contact hours.

MVS 1316 Applied Music PrincipalGuitar (2.00 Credits)
Pre- or Co-requisite MUS 1010and ensemble and (Pre- or Co-requisite MUN 1310 Pre- or Co-requisite MUN 1120 (Pre- or Co-requisite MUN 1210 or Pre- or Co-requisite MUN 1710) ) and Admission into the course is by audition only.
This course is designed for the music major who has prior private study and whose primary instrument is guitar. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of guitar repertoire. This course may be taken 3 times for a total of 6 credits. 16 contact hours.

MVS 1317 Electric Bass for Rock, jaxx, Blues & Funk I (2.00 Credits)
Prerequisite Audition required and Prerequisite Private instruction.
This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature related to rock, jazz, blues & funk. This course may be taken 3 times for a maximum of 6 credits. One-hour lesson per week. 16 contact hours.

MVS 1318 Contemporary Guitar Techniques I (2.00 Credits)
Prerequisite Audition required. and Prerequisite Private instruction
This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature related to contemporary music styles. This course may be taken 3 times for a maximum of 6 credits. One-hour lesson per week. 16 contact hours.

MVS 1411 Applied Violin Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Prerequisite Admission into the course is by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on (a) the development of sound technique and (b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping him/her gain confidence in solo performance. May be taken 3 times for a total of 9 credits. 47 contact hours.

MVS 1412 Applied Viola Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010Admission into the course is by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on (a) the development of sound technique and (b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping him/her gain confidence in solo performances. This course may be taken 3 times for a total of 9 credits. 47 contact hours.

MVS 1413 Applied Cello Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite Admission into the course is by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on (a) the development of sound technique and (b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping him/her gain confidence in solo performance. May be taken 3 times for a total of 9 credits. 47 contact hours.

MVS 1414 Applied String Bass Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite Admission into the course is by audition only
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on (a) the development of sound technique and (b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping him/her gain confidence in solo performance. May be taken 3 times for a total of 9 credits. 47 contact hours..

MVS 1415 Applied Harp Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite Admission into the course is by audition only
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on (a) the development of sound technique and (b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping him/her gain confidence in solo performance. May be taken 3 times for a total of 9 credits. 47 contact hours.

MVS 2021 Applied Music Enrichment Violin (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVS 1011 and is for students in the second year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. Students may register for 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVS 2022 Applied Music Enrichment Viola (1.0-2.00 Credits)
Prerequisite Private instruction.
This course is a continuation of MVS 1012 and is for students in the second year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. Students may register for 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVS 2023 Applied Music Enrichment Cello (1.0-2.00 Credits)
No Requisites Required
This course is a continuation of MVS 1013 and is for students in the second year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. Students may register for 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVS 2024 Applied Music Enrichment String Bass (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVS 1014 and is for students in the second year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. Students may register for 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVS 2025 Applied Music Enrichment Harp (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVS 1015 and is for students in the second year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. Students may register for 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVS 2026 Applied Music EnrichmentGuitar (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVS 1016 and is for students in the second year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. Students may register for 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVS 2221 Applied Music Secondary Violin (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVS 1211 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and violin repertoire. This course may be taken 3 times for a maximum of 6 credits. 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVS 2222 Applied Music Secondary Viola (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
This course is a continuation of MVS 1212 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and viola repertoire. This course may be taken 3 times for a maximum of 6 credits. 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVS 2223 Applied Music Secondary Cello (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVS 1213 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and cello repertoire. This course may be taken 3 times for a maximum of 6 credits. 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVS 2224 Applied Music Secondary String Bass (1.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVS 1214 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and string bass repertoire. This course may be taken 3 times for a maximum of 6 credits. 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVS 2225 Applied Music Secondary Harp (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVS 1215 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on a beginning to a beginning to intermediate approach to the development of technique and harp repertoire. This course may be taken 3 times for a maximum of 6 credits. 1 or 2 credits. One half-hour lesson or one hour lesson per week. 8 or 16 contact hours.

MVS 2226 Applied Music Secondary Guitar (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVS 1216 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and guitar repertoire. This course may be taken 3 times for a maximum of 6 credits. 1 or 2 credits. One half-hour lesson or one hour lesson per week. 8 or 16 contact hours.

MVS 2321 Applied Music Principal Violin (2.00 Credits)
No Requisites Required
This course is a continuation of MVS 1311 and is designed for the music major who has prior private study and whose primary instrument is violin. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of violin repertoire. This course may be taken 3 times for a total of 6 credits. 16 contact hours.

MVS 2322 Applied Music Principal Viola (2.00 Credits)
Pre- or Co-requisite MUS 1010and a major ensemble and (Pre- or Co-requisite MUN 1210 or Pre- or Co-requisite MUN 1310) and Pre- or Co-requisite Admission into the course is by audition only
Admission into the course is by audition only. This course is a continuation of MVS 1312 and is designed for the music major who has prior private study and whose primary instrument is viola. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of viola repertoire. This course may be taken 3 times for a total of 6 credits. 16 contact hours.

MVS 2323 Applied Music PrincipalCello (2.00 Credits)
Pre- or Co-requisite MUS 1010and a major ensemble and (Pre- or Co-requisite MUN 1210 or Pre- or Co-requisite MUN 1310) and Prerequisite Admission into the course is by audition only
Admission into the course is by audition only. This course is a continuation of MVS 1313 and is designed for the music major who has prior private study and whose primary instrument is cello. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of cello repertoire. This course may be taken 3 times for a total of 6 credits. 16 contact hours.

MVS 2324 Applied Music Principal String Bass (2.00 Credits)
Pre- or Co-requisite MUS 1010and a major ensemble and (Pre- or Co-requisite MUN 1210 or Pre- or Co-requisite MUN 1310) and Prerequisite Admission into the course is by audition only
This course is a continuation of MVS 1314 and is designed for the music major who has prior private study and whose primary instrument is string bass. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of string bass repertoire. This course may be taken 3 times for a total of 6 credits. 16 contact hours.

MVS 2325 Applied Music Principal Harp (2.00 Credits)
Pre- or Co-requisite MUS 1010and a major ensemble and (Pre- or Co-requisite MUN 1210 or Pre- or Co-requisite MUN 1310) and Pre- or Co-requisite Admission into the course is by audition only.
This course is a continuation of MVS 1315 and is designed for the music major who has prior private study and whose primary instrument is harp. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of harp repertoire. This course may be taken 3 times for a total of 6 credits. 16 contact hours.

MVS 2326 Applied Music Principal Guitar (2.00 Credits)
Pre- or Co-requisite MUS 1010and ensemble and (Pre- or Co-requisite MUN 1310 Pre- or Co-requisite MUN 1120 (Pre- or Co-requisite MUN 1210 or Pre- or Co-requisite MUN 1710))
Admission into the course is by audition only. This course is a continuation of MVS 1316 and is designed for the music major who has prior private study and whose primary instrument is guitar. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of technique and (b) the skilled usage of guitar repertoire. This course may be taken 3 times for a total of 6 credits. 16 contact hours.

MVS 2328 Cont. Guitar Techniques II (2.00 Credits)
Prerequisite Audition required.
Private instruction. This course is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate to advanced approach to the development of technique and music literature related to contemporary music styles. This course may be taken 3 times for a maximum of 6 credits. One-hour lesson per week. 16 contact hours.

MVS 2421 Applied Violin Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Prerequisite Admission into the course is by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on (a) the development of sound technique and (b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping him/her gain confidence in solo performance. May be taken 3 times for a total of 9 credits. 47 contact hours.

MVS 2422 Applied Viola Performance (3.00 Credits)
Prerequisite MUS 1010 and Prerequisite Admission into the course is by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on (a) the development of sound technique and (b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping him/her gain confidence in solo performances. This course may be taken 3 times for a total of 9 credits.

MVS 2423 Applied Cello Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite Admission into the course is by audition only
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on (a) the development of sound technique and (b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping him/her gain confidence in solo performance. May be taken 3 times for a total of 9 credits.

MVS 2424 Applied String Bass Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Prerequisite Admission into the course is by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on (a) the development of sound technique and (b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping him/her gain confidence in solo performance. May be taken 3 times for a total of 9 credits. 47 contact hours.

MVS 2425 Applied Harp Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Prerequisite Admission into the course is by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on (a) the development of sound technique and (b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping him/her gain confidence in solo performance. May be taken 3 times for a total of 9 credits.

MVS 2426 Applied Guitar Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Prerequisite Admission into the course is by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on (a) the development of sound technique and (b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping him/her gain confidence in solo performance. May be taken 3 times for a total of 9 credits.

## MVV-Applied Music: Voice

MVV 1011 Applied Music Voice Enrichment (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of applied vocal study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. Students may register for 1 or 2 credits. One half-hour lesson or one hour lesson per week.

MVV 1111 Class Voice I (1.00 Credits)
No Requisites Required
This course is for singers and instrumentalists with no previous vocal study with a focus on developing a basic foundation. class activities emphasize vocal exercises, posture and breathing, and developming confidence. The class involves both individual and group singing experiences. This course may be taken 3 times for credit.

MVV 1114 Contemporary Class Voice (1.00 Credits)
No Requisites Required
This course is for singers and instrumentalists with no previous experience in vocal studies, with a focus on developing a basic performance foundation in contemporary vocal techniques. Class activities emphasize analysis of styles, vocal exercises, posture, breathing, and developing confidence. The class involves both individual and group singing experiences. This course may be taken 3 times for credit.

MVV 1211 Applied Music Voice Secondary. (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature. This course may be taken 3 times for a total of 6 credits. 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVV 1311 Applied Music Voice Principal (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1310 and Prerequisite Admission into the course is by audition only
This course is designed for the music major with prior vocal study. This course consists of one (1) hour private lesson per week. The private lesson focuses on the development of vocal technique and vocal repertoire. This course may be taken 3 times for a total of 6 credits.

MVV 1317 Contemporary Vocal Style I (1.0-2.00 Credits)
Prerequisite MUM 1034
Private instruction. Audition required. This course is for vocal students in the first year of study in the music industry recording arts program. The private lesson focuses on an intermediate to advanced approach to the development of technique and music literature related to contemporary vocal performance. This course may be taken for a maximum of 4 credits. One half-hour or one-hour lesson per week.

MVV 2021 Applied Voice Enrichment (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVV 1011 and is for students in the second year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. Students may register for 1 or 2 credits. One half-hour lesson or one hour lesson per week.

MVV 2121 Class Voice II (1.00 Credits)
Prerequisite MVV 1111
This course is a continuation of Class Voice I. May be taken 3 times for credit.

MVV 2221 Applied Music Voice Secondary (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private Instruction. This course is a continuation of MVB 1211 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of vocal technique and the solo vocal literature. This course may be taken 3 times for a maximum of 6 credits. 1 or 2 credits. 8 or 16 contact hours. One half-hour lesson or one hour lesson per week.

MVV 2321 Applied Music Voice Principal (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1310
This course is a continuation of MVV 1311 and is designed for the music major in the second year of study whose primary instrument is voice. Admission to this level is determined by faculty at the vocal jury. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of vocal technique (b) the solo vocal literature and (c) song presentation. This course may be taken 3 times for a total of 6 credits.

MVV 2327 Contemporary Vocal Style II (1.0-2.00 Credits)
Prerequisite MVV 1317
Audition required. Private instruction. This course is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate to advanced approach to the development of technique and music literature related to contemporary music styles. This course may be taken 3 times for a maximum of 6 credits. One-hour lesson per week. 16 contact hours.

## MVW-Applied Music: Woodwinds

MVW 1011 Applied Music Enrichment - Flute (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 1012 Applied Music Enrichment - Oboe (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 1013 Applied Music Enrichment - Clarinet (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 1014 Applied Music Enrichment - Bassoon (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 1015 Applied Music Enrichment - Saxophone (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is for students in the first year of study who are non-music majors, or preparing for music major audition. This course may be taken 3 times for credit for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 1211 Applied Music Secondary - Flute (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and flute repertoire. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 1212 Applied Music Secondary - Oboe (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and oboe repertoire. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 1213 Applied Music Secondary - Clarinet (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and clarinet repertoire. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 1214 Applied Music Secondary - Bassoon (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and bassoon repertoire. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 1215 Applied Music Secondary - Saxophone (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and saxophone repertoire. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 1311 Applied Music Principal - Flute (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120 and Admission to by audition only.
This course is designed for the music major who has prior private study and whose primary instrument is flute. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of flute repertoire. This course may be taken 3 times for a total of 6 credits.

MVW 1312 Applied Music Principal - Oboe (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120 and Admission to by audition only.
This course is designed for the music major who has prior private study and whose primary instrument is oboe. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of oboe repertoire. This course may be taken 3 times for a total of 6 credits.

MVW 1313 Applied Music Principal - Clarinet (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120 and Admission to by audition only.
This course is designed for the music major who has prior private study and whose primary instrument is clarinet. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of clarinet repertoire. This course may be taken 3 times for a total of 6 credits.

MVW 1314 Applied Music Principal - Bassoon (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120 and Admission to by audition only.
This course is designed for the music major who has prior private study and whose primary instrument is bassoon. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of bassoon repertoire. This course may be taken 3 times for a total of 6 credits.

MVW 1315 Applied Music Principal - Saxophone (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120 and Admission to by audition only.
This course is designed for the music major who has prior private study and whose primary instrument is saxophone. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of saxophone repertoire. This course may be taken 3 times for a total of 6 credits.

MVW 1317 Contemporary Woodwind Techniques I (2.00 Credits)
Prerequisite Audition required.
Private instruction. This course is for the music major in the first year of study in the secondary performance area. The private lesson focuses on a beginning to intermediate approach to the development of technique and music literature related to contemporary music styles. This course may be taken 3 times for a maximum of 6 credits. One-hour lesson per week.

MVW 1411 Applied Flute Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Admission to by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. This course may be repeated 3 times for a total of 9 credits.

MVW 1412 Applied Oboe Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Admission to by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. This course may be taken 3 times for a total of 9 credits.

MVW 1413 Applied Clarinet Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Admission to by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. This course may be taken 3 times for a total of 9 credits.

MVW 1414 Applied Bassoon Performance (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Admission to by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. This course may be taken 3 times for a total of 9 credits.

MVW 1415 Applied Performance Saxophone (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Admission to by audition only.
. This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. This course may be taken 3 times for a total of 9 credits.

MVW 2021 Applied Music Enrichment - Flute (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVW 1011 and is for students in the second year of study who are non-music majors or preparing for music major audition. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 2022 Applied Music Enrichment - Oboe (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVW 1012 and is for students in the second year of study who are non-music majors or preparing for music major audition. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 2023 Applied Music Enrichment - Clarinet (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVW 1013 and is for students in the second year of study who are non-music majors or preparing for music major audition. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 2024 Applied Music Enrichment - Bassoon (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVW 1014 and is for students in the second year of study who are non-music majors or preparing for music major audition. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 2025 Applied Music Enrichment - Saxophone (1.0-2.00 Credits)
No Requisites Required
Private instruction. This course is a continuation of MVW 1015 and is for students in the second year of study who are non-music majors or preparing for music major audition. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week.

MVW 2221 Applied Music Secondary - Flute (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVW 1211 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate approach to the development of technique and flute repertoire. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week. 1 or 2 credits.

MVW 2222 Applied Music Secondary - Oboe (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
This course is a continuation of MVW 1212 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate approach to the development of technique and oboe repertoire. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week. 1 or 2 credits.

MVW 2223 Applied Music Secondary - Clarinet (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVW 1213 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate approach to the development of technique and clarinet repertoire. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week. 1 or 2 credits.

MVW 2224 Applied Music Secondary - Bassoon (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVW 1214 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate approach to the development of technique and bassoon repertoire. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week. 1 or 2 credits.

MVW 2225 Applied Music Secondary - Saxophone (1.0-2.00 Credits)
Pre- or Co-requisite MUS 1010
Private instruction. This course is a continuation of MVW 1215 and is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate approach to the development of technique and saxophone repertoire. This course may be taken 3 times for a maximum of 6 credits. One half-hour lesson or one hour lesson per week. 1 or 2 credits.

MVW 2321 Applied Music Principal - Flute (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120 and Admission to by audition only.
This course is a continuation of MVW 1311 and is designed for the music major who has prior private study and whose primary instrument is flute. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of flute repertoire. This course may be taken 3 times for a total of 6 credits.

MVW 2322 Applied Music Principal - Oboe (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120 and Admission to by audition only.
This course is a continuation of MVW 1312 and is designed for the music major who has prior private study and whose primary instrument is oboe. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of oboe repertoire. This course may be taken 3 times for a total of 6 credits.

MVW 2323 Applied Music Principal - Clarinet (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120 and Admission to by audition only.
This course is a continuation of MVW 1313 and is designed for the music major who has prior private study and whose primary instrument is clarinet. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of clarinet repertoire. This course may be taken 3 times for a total of 6 credits.

MVW 2324 Applied Music Principal - Bassoon (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120 and Admission to by audition only.
This course is a continuation of MVW 1314 and is designed for the music major who has prior private study and whose primary instrument is bassoon. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of bassoon repertoire. This course may be taken 3 times for a total of 6 credits.

MVW 2325 Applied Music Principal - Saxophone (2.00 Credits)
Pre- or Co-requisite MUS 1010 and Pre- or Co-requisite MUN 1120 and Admission to by audition only.
This course is a continuation of MVW 1315 and is designed for the music major who has prior private study and whose primary instrument is saxophone. This course consists of one (1) hour private lesson per week. The private lesson focuses on (a) the development of sound technique and (b) the skilled usage of saxophone repertoire. This course may be taken 3 times for a total of 6 credits.

MVW 2327 Contemporary Woodwind Techniques II (2.00 Credits)
Prerequisite Audition required. and Prerequisite Private instruction.
This course is for the music major in the second year of study in the secondary performance area. The private lesson focuses on an intermediate to advanced approach to the development of technique and music literature related to contemporary music styles. This course may be taken 3 times for a maximum of 6 credits. One-hour lesson per week.

MVW 2421 Applied Performance Flute (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Admission to by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. This course may be repeated 3 times for a total of 9 credits.

MVW 2422 Applied Performance Oboe (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Admission to by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. This course may be taken 3 times for a total of 9 credits.

MVW 2423 Applied Performance Clarinet (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Admission to by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. This course may be taken 3 times for a total of 9 credits.

MVW 2424 Applied Performance Bassoon (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Admission to by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. This course may be taken 3 times for a total of 9 credits.

MVW 2425 Applied Performance Saxophone (3.00 Credits)
Pre- or Co-requisite MUS 1010 and Admission to by audition only.
This course is designed for the performance music major who has prior private study. This course consists of one (1) hour private lesson and one (1) repertory class per week. The private lesson focuses on a) the development of sound technique and b) the mastery of literature. The repertoire class addresses performance issues and will give the individual student an opportunity to perform for a small, non-threatening audience, helping gain confidence in solo performance. This course may be taken 3 times for a total of 9 credits.

## NSP-Nursing:Special

NSP 3151 Advancing Technology: AI in Healthcare (2.00 Credits)
Permission of the Program or (Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C)

This course explores the fundamentals of artificial intelligence (AI) integration into health care and its impact via examination of its potential benefits and challenges within healthcare systems and individual practice as well as key regulatory and ethical considerations for healthcare delivery.

NSP 3276 ECG Interpretation for Health Care Professionals (2.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C

This course focuses on the essential information necessary for the accurate interpretation of basic cardiac rhythms and 12-lead electrocardiograms. A systematic approach is utilized for the interpretation of cardiac rhythms, their underlying hemodynamic significance, and current treatment modalities.

NSP 3477 Communicable Disease Prevention and Control (2.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS)
This course focuses on prevention and control of infectious diseases with the potential for large public health impact. Topics include the global perspective of infectious disease transmission and the ethics of infection control, prevention, and control of current and potential outbreaks, bioterrorism, and emergency/disaster preparedness.

NSP 3685 End-of-Life Care (2.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C
This course will provide an overview of the issues related to providing end-of-life care. Although end-of-life care emphasizes a team approach, this course will focus on nursing interventions commonly used. Topics to be covered include symptom management including pain control, psycho-social needs of the patient and family, spiritual care, advance directives, and meeting the needs of the caregiver.

## NUR-Nursing, Generic Undergraduate

NUR 1001C Transition to Professional Nursing (7.00 Credits)
Admission to Nursing (R.N.) (Associate in Science) (NURSE-AS) and Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C and Pre- or Co-requisite NUR 1060C with a minimum grade of C
This course focuses on role transition from LPN to RN and the knowledge, skills, and attitudes of holistic nursing care of adult clients and childbearing families. Focus is on the continued development of the roles of the nurse through the assimilation and application of theoretical concepts and use of the nursing process in providing care to adult clients and childbearing families who are experiencing commonly recurring actual or potential threats to human wellness-illness continuum. Selected advanced nursing skills are introduced. Emphasis is placed on managing the care of clients who are experiencing alterations in the functional dimensions of health in hospital and/or community settings. The student is expected to be able to manage a select number of clients while continuing to develop other nursing roles. This course contains a number of critical behaviors, including medication administration, that must be performed without error by the end of the course to successfully pass the course.

NUR 1003C LPN Transition Health Concepts (8.00 Credits)
Admission to Nursing (R.N.) (Associate in Science) (NURSE-AS) and Pre- or Co-requisite NUR 1083 with a minimum grade of C and Pre- or Co-requisite NUR 1147 with a minimum grade of C and (Pre- or Co-requisite PSY 1012 with a minimum grade of C or Pre- or Co-requisite PSY 1012H with a minimum grade of C)
This course focuses on caring for patients with common and uncomplicated physical and mental health problems across the lifespan. Students will apply clinical judgment skills to provide patient-centered care in a variety of settings.

NUR 1021C Nursing I (9.00 Credits)
Admission to Nursing (R.N.) (Associate in Science) (NURSE-AS) and Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C and Prerequisite PSY 1012 with a minimum grade of C
This course introduces the knowledge, skills, and attitudes of holistic nursing care. Theory content includes an introduction to understanding a person as a holistic being, the hospitalized adult patient's responses to actual or potential threats to the human wellness-illness continuum, the registered nurse's roles that affect or alter a client's responses, and an introduction to the helping relationship. Psychomotor skills required of the nurse are introduced and validated. This includes a short didactic for each skill being introduced, a demonstration of the skill, a time for practice with feedback from the instructor, and testing for mastery of the skill. Clinical experiences include hospitals and nursing homes where the student will apply the fundamentals of holistic nursing care. This course contains a number of critical behaviors, including medication administration, which must be performed without error by the end of the course to successfully pass the course.

NUR 1060C Nursing Process/Physical Assessment (2.00 Credits)
Admission to Nursing (R.N.) (Associate in Science) (NURSE-AS) and Pre- or Co-requisite NUR 1001C with a minimum grade of C
This course is a foundation course which introduces the knowledge, skills, and attitudes of holistic nursing and the nursing process. The student will apply all steps of the nursing process with particular emphasis on completing a health history and physical assessment. Clinical reasoning will be fostered through a variety of in-class exercises to promote the analysis of data and the development of a nursing care plan.

NUR 1083 LPN Transition Professional Nursing (1.00 Credits)
Admission to Nursing (R.N.) (Associate in Science) (NURSE-AS) and Pre- or Co-requisite NUR 1003C with a minimum grade of C and Pre- or Co-requisite NUR 1147 with a minimum grade of C
This course focuses on the transition of the licensed practical nurse to the professional registered nurse, and care coordination with members of the health care team in a variety of settings. Students will be introduced to the importance of quality improvement (QI) and outline the basic skills needed for the Evidence-Based Practice (EBP) and clinical judgement processes.

NUR 1110C Health Concepts I (6.00 Credits)
Admission to Nursing (R.N.) (Associate in Science) (NURSE-AS) and Pre- or Co-requisite NUR 1111 with a minimum grade of C and Pre- or Co-requisite NUR 1141 with a minimum grade of C and Pre- or Co-requisite PSY 1012 with a minimum grade of C
This course introduces students to safe, basic adult care, health promotion, and development across the illness-wellness continuum. Students will acquire foundational psychomotor skills, including health assessment, and begin to develop clinical judgment skills in a variety of settings.

NUR 1111 Professional Nursing I (2.00 Credits)
Admission to Nursing (R.N.) (Associate in Science) (NURSE-AS) and Pre- or Co-requisite NUR 1110C with a minimum grade of C and Pre- or Co-requisite NUR 1141 with a minimum grade of C
This course introduces students to the nursing program's philosophy and core organizing concepts, including the role and scope of practice of the professional nurse. Students will learn the basic principles of therapeutic and healthcare team communication and begin to explore the nursing process as the foundation for safe and appropriate clinical judgment.

NUR 1112 Professional Nursing II (1.00 Credits)
(Prerequisite NUR 1110C with a minimum grade of C and Prerequisite NUR 1111 with a minimum grade of C and Prerequisite NUR 1141 with a minimum grade of C and Pre- or Co-requisite NUR 2034C with a minimum grade of C and Pre- or Co-requisite NUR 1142 with a minimum grade of C) or (Permission of the Program Student Group = EWNC and Prerequisite NUR 2034C with a minimum grade of C and Prerequisite NUR 1142 with a minimum grade of C and Pre- or Co-requisite NUR 1148 with a minimum grade of C and (Pre- or Co-requisite PSY 1012 with a minimum grade of C or Pre- or Co-requisite PSY 1012H with a minimum grade of C))
This course focuses on the practice of professional nursing and care coordination with members of the health care team in a variety of settings. Students will also be introduced to the importance of quality improvement (QI) and outline the basic Evidence-Based Practice (EBP) Process.

NUR 1113 Professional Nursing III (1.00 Credits)
(Prerequisite NUR 2034C with a minimum grade of C and Prerequisite NUR 1112 with a minimum grade of C and Prerequisite NUR 1142 with a minimum grade of C and Pre- or Co-requisite NUR 2035C with a minimum grade of C and Pre- or Co-requisite NUR 1148 with a minimum grade of C) or (Prerequisite NUR 1003C with a minimum grade of C and Prerequisite NUR 1083 with a minimum grade of C and Prerequisite NUR 1147 with a minimum grade of C and Pre- or Co-requisite NUR 2035C with a minimum grade of C and Pre- or Co-requisite NUR 1113 with a minimum grade of C) or (Permission of the Program Student Group = EWNC and Prerequisite NUR 2035C with a minimum grade of C and Pre- or Co-requisite NUR 2205C with a minimum grade of C and Pre- or Co-requisite NUR 1149 with a minimum grade of C)
This course helps prepare students to transition into professional nursing practice. Students will focus on quality improvement and management of care concepts, including leadership and prioritization for groups of patients. Concepts of case management will be presented to ensure continuity of care for patients and families across health care settings.

NUR 1141 Pharmacology I (2.00 Credits)
Admission to Nursing (R.N.) (Associate in Science) (NURSE-AS) and Pre- or Co-requisite NUR 1110C with a minimum grade of C and Pre- or Co-requisite NUR 1111 with a minimum grade of C
This course introduces the student to the concepts of pharmacology and basic medication administration with a focus on safety. Students will be introduced to dimensional analysis and basic math calculations essential to nursing practice. Common drugs used for adult care to meet basic needs will be discussed.

NUR 1142 Pharmacology II (1.00 Credits)
(Prerequisite NUR 1110C with a minimum grade of C and Prerequisite NUR 1111 with a minimum grade of C and Prerequisite NUR 1141 with a minimum grade of C and Pre- or Co-requisite NUR 2034C with a minimum grade of C and Pre- or Co-requisite NUR 1112 with a minimum grade of C) or (Permission of the Program Student Group = EWNC and Pre- or Co-requisite NUR 2034C with a minimum grade of C and (Pre- or Co-requisite PSY 1012 with a minimum grade of C or Pre- or Co-requisite PSY 1012H with a minimum grade of C))
This course focuses on nursing implications for medications that treat common and uncomplicated physical and mental health problems with an emphasis on medication safety. Students will apply dimensional analysis and math calculations essential for medication administration to patients across the lifespan.

NUR 1147 LPN Transition Pharmacology (2.00 Credits)
Admission to Nursing (R.N.) (Associate in Science) (NURSE-AS) and Pre- or Co-requisite NUR 1003C with a minimum grade of C and Pre- or Co-requisite NUR 1083 with a minimum grade of C
This course focuses on nursing implications for medications that treat common and uncomplicated physical and mental health problems with an emphasis on medication safety. Students will apply dimensional analysis and math calculations essential for medication administration to patients across the lifespan.

NUR 1148 Pharmacology III (1.00 Credits)
((Prerequisite NUR 2034C with a minimum grade of C and Prerequisite NUR 1112 with a minimum grade of C and Prerequisite NUR 1142 with a minimum grade of C and Pre- or Co-requisite Humanities Met and Pre- or Co-requisite NUR 2035C with a minimum grade of C and Pre- or Co-requisite NUR 1113 with a minimum grade of C) or Permission of the Program Student Group = EWNC) and Prerequisite NUR 2034C with a minimum grade of C and Prerequisite NUR 1142 with a minimum grade of C and (Pre- or Co-requisite NUR 1112 with a minimum grade of C or (Prerequisite NUR 1003C with a minimum grade of C and Prerequisite NUR 1083 with a minimum grade of C and Prerequisite NUR 1147 with a minimum grade of C and Pre- or Co-requisite NUR 2035C with a minimum grade of C and Pre- or Co-requisite NUR 1113 with a minimum grade of C and Pre- or Co-requisite Humanities Met ))
This course focuses on nursing implications for medications that treat complex health issues across the lifespan with an emphasis on safe, evidence-based administration practices.

NUR 1149 Pharmacology IV (1.00 Credits)
(Prerequisite NUR 2035C with a minimum grade of C and Prerequisite NUR 1148 with a minimum grade of C and Prerequisite NUR 1113 with a minimum grade of C and Pre- or Co-requisite NUR 2205C with a minimum grade of C and Pre- or Co-requisite NUR 2940C with a minimum grade of C) or (Permission of the Program Student Group = EWNC and Prerequisite NUR 2035C with a minimum grade of C and Pre- or Co-requisite NUR 2205C with a minimum grade of C and Pre- or Co-requisite NUR 1113 with a minimum grade of C and (Pre- or Co-requisite PSY 1012 with a minimum grade of C or Pre- or Co-requisite PSY 1012H with a minimum grade of C) and (Pre- or Co-requisite PHI 1600 with a minimum grade of C or Pre- or Co-requisite PHI 1600H with a minimum grade of C))
This course focuses on evidence-based nursing implications for medications that are used for adult patients with multi-system and emergent health problems with an emphasis on safe administration and appropriate monitoring.

NUR 1211C Nursing II (10.00 Credits)
Prerequisite NUR 1021C with a minimum grade of C and Pre- or Co-requisite NUR 1142 with a minimum grade of C
This course provides opportunities to learn and apply the principles related to the holistic nursing care of adult clients and childbearing families. Focus is on application of the theoretical concepts and use of the nursing process in providing care to adult clients and childbearing families who are experiencing commonly recurring actual or potential threats to human wellness-illness continuum. Emphasis is placed on managing the care of clients who are experiencing alterations in the functional dimensions of health in both hospital and community settings. The student is expected to be able to manage a select number of hospitalized clients while continuing to develop other nursing roles. Selected advanced nursing skills are introduced. This course contains a number of critical behaviors, including medication administration, that must be performed without error by the end of the course to successfully pass the course.

NUR 2034C Health Concepts II (9.00 Credits)
(Prerequisite NUR 1110C with a minimum grade of C and Prerequisite NUR 1111 with a minimum grade of C and Prerequisite NUR 1141 with a minimum grade of C and Pre- or Co-requisite NUR 1112 with a minimum grade of C and Pre- or Co-requisite NUR 1142 with a minimum grade of C and Pre- or Co-requisite PHI 1600 with a minimum grade of C) or (Permission of the Program Student Group = EWNC and Prerequisite NUR 1110C with a minimum grade of C and Prerequisite NUR 1111 with a minimum grade of C and Prerequisite NUR 1141 with a minimum grade of C and Pre- or Co-requisite NUR 1142 with a minimum grade of C)
This course focuses on caring for patients with common and uncomplicated physical and mental health problems across the lifespan. Students will apply clinical judgment skills to provide patient-centered care in a variety of settings.

NUR 2035C Health Concepts III (9.00 Credits)
(Prerequisite NUR 2034C with a minimum grade of C and Prerequisite NUR 1112 with a minimum grade of C and Prerequisite NUR 1142 with a minimum grade of C and Pre- or Co-requisite NUR 1148 with a minimum grade of C and Pre- or Co-requisite NUR 1113 with a minimum grade of C) or (Prerequisite NUR 1003C with a minimum grade of C and Prerequisite NUR 1083 with a minimum grade of C and Prerequisite NUR 1147 with a minimum grade of C) or (Permission of the Program Student Group = EWNC and Prerequisite NUR 1112 with a minimum grade of C and Prerequisite NUR 1148 with a minimum grade of C and (Prerequisite PSY 1012 with a minimum grade of C or Prerequisite PSY 1012H with a minimum grade of C) and (Pre- or Co-requisite PHI 1600 with a minimum grade of C or Pre- or Co-requisite PHI 1600H with a minimum grade of C))
This course focuses on providing safe, evidence-based care for patients with complex physical and mental health problems across the lifespan. Students will use clinical judgment skills to provide collaborative, patient-centered care in a variety of settings.

NUR 2205C Health Concepts IV (6.00 Credits)
(Prerequisite NUR 2035C with a minimum grade of C and Prerequisite NUR 1113 with a minimum grade of C and Prerequisite NUR 1148 with a minimum grade of C and Pre- or Co-requisite NUR 1149 with a minimum grade of C and Pre- or Co-requisite NUR 2940C with a minimum grade of C) or (Permission of the Program Student Group = EWNC and Prerequisite NUR 2035C with a minimum grade of C and Pre- or Co-requisite NUR 1113 with a minimum grade of C and Pre- or Co-requisite NUR 1149 with a minimum grade of C and (Pre- or Co-requisite PSY 1012 with a minimum grade of C and Pre- or Co-requisite PSY 1012H with a minimum grade of C) and (Prerequisite PHI 1600 with a minimum grade of C or Pre- or Co-requisite PHI 1600H with a minimum grade of C))
This course focuses on providing safe, collaborative, evidence-based care for adult patients with multi-system and emergent health problems. Students will be introduced to disaster preparedness including triage and mass casualty management.

NUR 2462C Nursing III (9.00 Credits)
(Prerequisite NUR 1211C with a minimum grade of C and Prerequisite NUR 1142 with a minimum grade of C) or (Prerequisite NUR 1001C with a minimum grade of C and Prerequisite NUR 1060C with a minimum grade of C and Pre- or Co-requisite NUR 2511C with a minimum grade of C)
This course provides opportunities to learn and apply the concepts and principles related to the nursing care of pediatric clients, child-rearing families, and adult clients experiencing complex alterations in the functional dimensions of health. Focus is on continued development of the roles of the nurse through the assimilation and application of theoretical concepts and the use of the nursing process in providing care to pediatric clients, child-rearing families, and adult clients. Emphasis is on actual or potential threats to the human wellness-illness continuum. Selected advanced nursing skills are introduced and previous nursing skills must be adapted for use in the treatment of children. Management of the nursing care of pediatric clients, child-rearing families, and adult clients in both hospital and community settings is emphasized. A variety of clinical and community settings are used to further develop nursing roles. This course contains a number of critical behaviors, including medication administration, that must be performed without error by the end of the course to successfully complete this course.

NUR 2511C Psychosocial Nursing (1.00 Credits)
(Prerequisite NUR 1211C with a minimum grade of C and Prerequisite NUR 1142 with a minimum grade of C) or (Prerequisite NUR 1001C with a minimum grade of C and Pre- or Co-requisite NUR 2462C with a minimum grade of C)
This course presents principles and practices related to the holistic nursing care of clients and their families across the life span. The course focuses on the continued development of the nursing process and builds on psychosocial concepts. Concepts in this course include the helping relationship, family dynamics, crisis intervention and specific nursing therapies related to various psychosocial needs of clients and families in all nursing settings. This course contains a number of critical behaviors, including medication administration, which must be performed without error by the end of the course to successfully complete this course.

NUR 2731C Nursing IV (8.00 Credits)
Prerequisite NUR 2462C with a minimum grade of C and Prerequisite NUR 2511C with a minimum grade of C and (Prerequisite MCB 2010 with a minimum grade of C and (Prerequisite MCB 2010L with a minimum grade of C or Prerequisite MCB 2010CH with a minimum grade of C) ) and Prerequisite STA 2023 with a minimum grade of C and Pre- or Co-requisite NUR 2813 with a minimum grade of C and Prerequisite any approved Ethics course
This course focuses on assimilation and synthesis of the concepts and principles of holistic nursing therapy related to the care of a group of clients experiencing complex or potentially life threatening problems. Holistic care of the chronically, critically and terminally ill clients of various ages throughout the life span and their significant others in the hospital setting and is adapted to the care of clients in community based health care settings is emphasized. Clinical experiences take place in hospitals and community settings. Selected advanced nursing skills are introduced, including but not limited to administration of intravenous medications (IV push) and blood transfusions. Demonstration of roles and competencies of the associate degree graduate nurse at entry level are expected. This course contains a number of critical behaviors, including medication administration, that must be performed without error by the end of the course to successfully pass the course.

NUR 2811C Nursing Care Management Practicum (3.00 Credits)
Prerequisite NUR 2731C with a minimum grade of C
The focus is on application of holistic nursing concepts and principles related to care of a group of patients with potentially life threatening problems. Clinical experiences may take place in hospitals or a variety of community settings. Demonstration of roles and competencies of the associate degree graduate nurse at entry level are expected. This course is essential for the successful transition from the role of student nurse to that of graduate nurse/registered nurse. This course contains a number of critical behaviors, including medication administration and all aspects of client safety, that must be performed without error by the end of the course to successfully pass the course. There will be 135 clinical hours over 3.5 weeks. The student will be placed with a Registered Nurse Preceptor and the student's clinical schedule will match the preceptor's schedule.

NUR 2813 Role Transition in Nursing (1.00 Credits)
Pre- or Co-requisite NUR 2731C
This course facilitates the transition from student nurse to professional nurse. The course includes the concepts of success in the following areas: National Council of Licensing Examiners (NCLEX), job search, dealing with reality shock in the workplace, management of workplace issues, resolution of legal/ethical/diversity issues, delegation, conflict resolution, and reduction of nursing practice errors.

NUR 2940C Practicum (3.00 Credits)
(Prerequisite NUR 2035C with a minimum grade of C and Prerequisite NUR 1113 with a minimum grade of C and Prerequisite NUR 1148 with a minimum grade of C and Pre- or Co-requisite NUR 2205C with a minimum grade of C and Pre- or Co-requisite NUR 1149 with a minimum grade of C) or (Permission of the Program Student Group = EWNC and Prerequisite NUR 2205C with a minimum grade of C and Prerequisite NUR 1113 with a minimum grade of C and Prerequisite NUR 1149 with a minimum grade of C)
This clinical course focuses on the application of clinical judgment in the management of care of adult patients with an emphasis on collaboration, delegation, and professionalism for transition into nursing practice.

NUR 3066 Health Assessment and Physical Appraisal (3.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C
This course focuses on client assessment, health risks and formation of nursing diagnoses and health teaching. Emphasis is on the process of client interaction and use of appraisal skills in the collection of bio-psychosocial data across the life span.

NUR 3125 Pathophysiology (3.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C

This course facilitates the student's ability to connect clinical and diagnostic findings to cellular alterations in the body associated with certain disease processes.

NUR 3178 Complementary/Integrative Health and Therapies (2.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) or Prerequisite permission of the Dean.
This elective course consists of an overview of the field of Complementary/Integrative Health that explores health and healing as related to the physical, mental, emotional and spiritual levels of consciousness and reviews current therapies in the field. The focus is to expand one’s awareness of integrative ideas and approaches for healing and to explore evidence for their effectiveness. Topics vary according to instructor and student interest.

NUR 3655 Nursing in a Multicultural Society (3.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C

This course focuses on cultural humility and its impact on safe and equitable healthcare delivery at the individual, community and system levels. The concepts of diversity, equity, inclusion, accessibility and belonging will be explored and connected to culturally congruent care.

NUR 3684 Health Promotion in Nursing (3.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C

This course introduces population-based health and wellness concepts over the lifespan continuum in various settings. Initiatives and guidelines upon which professional, evidence-based nursing practice is anchored are explored. Focus is placed on the baccalaureate-prepared nurse’s role as promotor of health and advocate for personal, professional, and client healthy choices.

NUR 3805 Professional Roles and Dimensions of Nursing Practice (3.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS)

This course facilitates socialization into the practice of the professional baccalaureate-prepared nurse via synthesis of concepts, theories, processes, policies, regulations, competencies, and initiatives that affect health.

NUR 3826 Legal & Ethical Aspects of Nursing (3.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C
This course is an assessment of ethical and legal issues confronting nurses and other health care providers during provision of patient care and in the workplace. The course focuses on identification and application of legal and ethical concepts, and principles underlying critical thinking and ethical decision making in nursing and health care.

NUR 3874 Informatics and Clinical Reasoning (3.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C

This course examines informatics and technology use in health care and emphasizes the role of the nurse as an educator for clients and caregivers.

NUR 3905 Independent Study in Nursing (1.0-3.00 Credits)
Prerequisite Permission of the Dean.
This course may be taken to satisfy nursing elective credits required for graduation. It provides an opportunity for an individual or small group of students to systematically investigate, under faculty guidance, selected topics relevant to the health needs of individuals or groups. It may involve a case study or other project that provides an opportunity for increasing breadth or depth of knowledge or skill.

NUR 3931 Issues and Trends in Nursing (3.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C

This course examines evolving issues and trends and their influence on healthcare delivery and professional baccalaureate nursing practice. Topics include, but are not limited to, professional, sociocultural, legal, ethical, political, regulatory, and social matters.

NUR 4169 Evidence-Based Research Utilization (4.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C

This course introduces elements of the research process and the use of evidence-based practice in safe, quality nursing care and emphasizes critical appraisal of current evidence that guides professional nursing practice.

NUR 4636 Community Health Nursing Theory (3.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C
This course focuses on the holistic nursing role in the community. The emphasis is on theoretical understanding of concepts related to community health nursing and public health nursing. These two concepts overlap, yet have distinguishing characteristics. The course will explore identifying health needs of the community and creating a health promotion education resource to address an identified need.

NUR 4636L Community Health Nursing Practicum (4.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C and Pre- or Co-requisite NUR 4636 with a minimum grade of C
This course offers opportunities to practice the principles and theory of community health nursing in a community setting. Included are the identification of health care needs of the community as a client and the nurse's role as a facilitator, teacher, and evaluator in promoting and maintaining health and wellness.

NUR 4667 Globalization of Nursing Practice (4.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C

This course explores community, public, and population-based health as well as the impact of global health nursing. Students will appraise population health trends and explore the impact of prevention-based care and disease management.

NUR 4827 Leadership in Nursing (3.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Pre- or Co-requisite NUR 3805 with a minimum grade of C

This course examines theories and concepts associated with formal and informal nursing leadership. Emphasis is placed upon the role of the nurse as a change agent across the continuum of care.

NUR 4835 Leadership Theory (3.00 Credits)
Pre- or Co-requisite NUR 4835L with a minimum grade of C and Prerequisite NUR 3805 with a minimum grade of C
This course includes a focus on theories, concepts, and principles of leading and managing faced by nursing leaders and managers. Emphasis will be on the methods used to become an effective leader/manager including interpersonal skills needed for effective leadership and management, the different types of organizations delivering health care, outcomes management, and analysis of current research findings.

NUR 4835L Leadership Practicum (4.00 Credits)
Prerequisite NUR 3805 with a minimum grade of C and Prerequisite NUR 4835 with a minimum grade of C
This course focuses on the application of the theories, concepts, and principles of leading and managing in the healthcare setting. Emphasis in the course will be on the development of skills needed for effective leadership and management. Opportunities will be provided to demonstrate appropriate introductory leadership and management ability in collaboration with a bachelors-prepared nurse leader in a healthcare agency.

NUR 4950 Capstone (3.00 Credits)
Admission to Nursing (Bachelor of Science) (NURS-BS) and Prerequisite NUR 3805 with a minimum grade of C and Prerequisite NUR 3874 with a minimum grade of C and Prerequisite NUR 3684 with a minimum grade of C and Prerequisite NUR 4827 with a minimum grade of C and Prerequisite NUR 4169 with a minimum grade of C and Prerequisite NUR 4667 with a minimum grade of C and Pre- or Co-requisite NUR 3125 with a minimum grade of C and Pre- or Co-requisite NUR 3655 with a minimum grade of C and Pre- or Co-requisite NUR 3931 with a minimum grade of C

This capstone course serves to develop skills that nurse leaders need to function effectively in today's evolving healthcare systems. Emphasis is placed on synthesizing elements of the baccalaureate nursing curriculum to foster leadership, health equity, and quality improvement related to care delivery.

## OCB-Biological Oceanography

OCB 1000C Biology of Marine Life (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite appropriate score on the college placement test.)
This course is designed to provide the non-science major student with an understanding of basic biological principles using marine organisms as examples. The focus is on functional interactions at the cellular, organismal and community levels. The laboratory component will apply concepts through direct observations and experiments using the diversity of organisms in and from our local marine environment.

## OCE-General Oceanography

OCE 2001 Introduction to Oceanography (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017 and Prerequisite MAT 0028) or (Prerequisite EAP 1695 and Prerequisite MAT 0028)

Using the scientific method, critical thinking skills, and data analysis, this course will examine the fundamental processes of the ocean system, composed of an atmosphere, hydrosphere, lithosphere, and biosphere, through time. The course will also explore interactions between these spheres, including critical analysis of scientific theories and emphasize oceanic connections with humanity. ***State Core Course Description (State Rule 6A-14.0303).*** **Note: Effective Fall 2024 and forward, students who successfully complete OCE 2001 will satisfy the Natural Sciences Core requirement. If completed before Fall 2024, the course will satisfy the Natural Sciences Elective requirement.**

OCE 2001L Oceanography Laboratory (1.00 Credits)
Prerequisite OCE 2001 with a minimum grade of C
This laboratory course introduces the student to basic principles of physical, geological, chemical, and biological oceanography. Topics will include the analysis of ocean basin features, properties of seawater, the physical properties driving ocean currents, identification of marine organisms, and other related items. This laboratory will include field trips

## PAD-Public Administration

PAD 3034 Survey of Public Policy (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)

This course reveals how policy makers identify problems and who has a voice in making both the public and decision makers aware of those problems. We focus on the process of creating, budgeting, implementing, and evaluating policy solutions. Case studies and practical applications prepare public safety professionals to understand the policy background of our daily work.

PAD 3311 Program Planning & Evaluation (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS)

This course examines program development and program implementation within the workplace and community. The student will identify various program theories and their importance within program development. The student examines the value of collaboration between teams and stakeholders to implement effective organizational and community-driven programs.

PAD 3330 Urban and Regional Planning (3.00 Credits)
Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course provides a basic foundation into the principles of planning practices that imply and include the potential variations of substance as related to local government planning. Emphasis is placed on social, economic and housing planning and its relationship to conceptual frameworks, research perspectives, practical and political considerations, and public policy to include its origin, interpretation and implementation. Course content is guided by an understanding that community growth, and the inevitable changes associated with growth, are no longer accepted without challenge.

PAD 3820 Foundations of Public Safety Administration (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course is presented as an overview of the primary aspects of public safety administration. Major administrative, managerial and leadership components of public safety organizations will be examined. Also addressed will be administrative concerns for special issues and challenges, such as coordinated public safety approaches, post-9/11 administrative worldviews, ethical foundations, critical thinking and analysis, and innovative solutions for pragmatic public safety problems. The course will also provide the student with a framework for individual progress. This will include an initial supervisor/leadership/management skills assessment; the beginning development of an individualized development plan toward educational and career goals, with a personal portfolio; and preliminary planning to link continuous learning with the Capstone course at the end of the program.

PAD 3874 Community Relations Theory and Practice (3.00 Credits)
Pre- or Co-requisite PAD 3820 with a minimum grade of C and (Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS))
This course will expose the student to community relations theory and practice within a broad range of public safety organizations. Students will understand why positive community perception of public safety is critical to funding and operational effectiveness. Each student will gain the insight and skills necessary to be effective in the community relations function of public safety administration.

PAD 4014 Political & Socio-Economic Impact of Gangs (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course introduces the student to the interrelationship of gangs, public policy, political decision-making, and the social and economic ramifications. The course focuses on contemporary gang issues, public policy paradigms, national social and economic trends, and the impact of gang activity in the community.

PAD 4046 Managing Conflict in Public Organizations (3.00 Credits)
Prerequisite PAD 3820 with a minimum grade of C and (Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS))
This course will examine the various conflict situations in public organizations to include how values and ethics influence the behavior of administrators in making decisions that affect the philosophy and goals of the organization. In addition, focus will be placed on the role of administrators as conflict managers by examining and providing various conflict resolution mechanisms and strategies that are cost-effective to the organization.

PAD 4204 Public Finance (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course will provide the student with a firm understanding of all elements of public finance, from budget development to finance management, and from procurement to accounting and auditing. In addition, the course will explore alternative sources of public safety funding available to local government entities. A key component of the course will be the student's preparation and presentation of a budget for a model city.

PAD 4232 Grant Administration & Resource Development (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Dental Hygiene (Bachelor of Applied Science) (DENH-BAS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS)

This course will explore and analyze the proposal-writing process.This course also examines the process of identifying resources to fund grant proposals. The student will identify the eleven (11) steps for creating a successful proposal. The student will also examine the importance of creating strong networking and collaboration to accomplish organizational and community needs.

PAD 4332 Strategic and Operational Planning (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS)
This course is an examination of strategic planning in public and nonprofit organizations. The student will learn how strategic planning can guide and strengthen the effectiveness of an organization¿s performance. The ten step Strategy Change Cycle is introduced as an effective planning approach to accomplish strategic and operational planning in organizations.

PAD 4393 Critical Incident Management (3.00 Credits)
Prerequisite PAD 3820 with a minimum grade of C and (Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Emergency Management (Advanced Technical Certificate with Financial Aid Eligibility) (EAM-ATC) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS))
This course examines disaster planning and emergency management. The course focuses on the four phases of planning, mitigation, response, and preparedness. The course includes FEMA and federal government NIMS ICS-700, and ICS 800 certifications.

PAD 4426 Public Sector Labor Relations and Collective Bargaining (3.00 Credits)
No Requisites Required

This course dives into the labor relations and collective bargaining challenges faced by governments (public sector entities) in Florida when dealing with employees who are either seeking to organize a union under Chapter 447 or are already represented by one. Students will have an opportunity to dissect the process of employee union formation, outlining the crucial procedures and requirements that one must navigate before, during, and after collective bargaining negotiations.

PAD 4603 Administrative Law (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course will examine the workings of Administrative Agencies with an emphasis on their power to make and enforce rules along with their power to investigate and adjudicate alleged violations. Particular focus will be placed on the means by which government administrators interact with these agencies. In addition to understanding the role of administrative agencies, the course will focus on using research skills to examine the constantly-changing rules that are promulgated by administrative agencies.

PAD 4878 Public Safety Administration Capstone (3.00 Credits)
Admission to Public Safety Administration (Bachelor of Applied Science) (PSA-BAS) or (Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Prerequisite Permission of the program)
This course will afford the student an opportunity to observe and use analytical knowledge and research skills to define and confront a problem encountered by today's public safety administrators. The student will complete a project dealing with a current public safety issue and make recommendations for implementation of a solution. This course will foster implementation strategies concluding in a process of promoting efficient and effective management in a public safety agency or the student's chosen field of study. This course will examine the outcome of each student's individualized leadership plan toward educational and career goals with a personal portfolio developed in the course Foundations of Public Safety Administration course to ensure attainment of program goals.

## PCB-Process Biology Genetics

PCB 2061C Applied Genetics (3.00 Credits)
(Prerequisite BSC 2010 with a minimum grade of C and Prerequisite BSC 2010L with a minimum grade of C) or Prerequisite BSC 2010CH with a minimum grade of C
This course introduces the concepts and mechanisms associated with the transmission of heritable information including Mendelian genetic analysis, modern molecular genetic analysis and regulation of gene expression. The aim of this course is to provide students with a foundation for understanding the current genetic advances in regards to their application to current methods in biotechnology. Quantitative genetic analyses, genomics, and the genetic basis of disease will be explored.

PCB 3023 Cell Biology (3.00 Credits)
Pre- or Co-requisite BSC 3017 with a minimum grade of C and Pre- or Co-requisite PCB 3023L with a minimum grade of C and (Prerequisite CHM 2210 with a minimum grade of C and Prerequisite CHM 2210L with a minimum grade of C) and (Prerequisite BSC 2010 with a minimum grade of C and (Prerequisite BSC 2010L with a minimum grade of C or Prerequisite BSC 2010CH with a minimum grade of C))
This course is a study of cell structure and function with emphasis on the properties of intracellular organelles. This course is concerned primarily with eukaryotic cells. Lectures are devoted to structural details and the molecular functions of the different sub-cellular components. Topics covered include exocytosis, endocytosis, membrane transport and the role of the cytoskeleton in this process, protein targeting, organelle function, organelle structure and organelle biosynthesis, protein sorting, motility, and cell-to-cell interactions. Lectures will also introduce the topics of signal transduction and cellular functions that are required for cell growth and programmed cell death, as well as how perturbations in these processes can result in human diseases. (Note: Credit is not given for both (PCB 3023C) and (PCB 3023/PCB 3023L).

PCB 3023L Cell Biology Laboratory (1.00 Credits)
Pre- or Co-requisite BSC 3017 with a minimum grade of C and Pre- or Co-requisite PCB 3023 with a minimum grade of C and (Prerequisite CHM 2210 with a minimum grade of C and Prerequisite CHM 2210L with a minimum grade of C) and ((Prerequisite BSC 2010 with a minimum grade of C and Prerequisite BSC 2010L with a minimum grade of C) or Prerequisite BSC 2010CH with a minimum grade of C)
This laboratory course will consist of experiments that teach and apply fundamental techniques used in cell biology such as isolation and study of cellular organelles, sub-cellular fractionation, protein isolation, detection and activity. (Note: Credit is not given for (PCB 3023 and PCB 3023L) and (PCB 3023C).

PCB 3043 Ecology (3.00 Credits)
Prerequisite BSC 2011 with a minimum grade of C and Prerequisite BSC 2011L with a minimum grade of C and Pre- or Co-requisite PCB 3043L with a minimum grade of C and Pre- or Co-requisite BSC 3017 with a minimum grade of C
This course is designed to teach ecology at four major levels: organismic, population, community and ecosystem. One of the aims is to interrelate the different levels of ecological study and to unify these via evolutionary and behavioral ecology. A second aim is to correlate the concepts of ecology with those learned in physiology to understand physiological ecology. This course will address both theoretical and empirical ecology as well as applied ecology with special emphasis on Florida's ecosystems and human impacts on them. NOTE: Credit is not given for both (PCB 3043C) and (PCB 3043/PCB 3043L).

PCB 3043L Ecology Lab (1.00 Credits)
Prerequisite BSC 2011 with a minimum grade of C and Prerequisite BSC 2011L with a minimum grade of C and Pre- or Co-requisite PCB 3043 with a minimum grade of C and Pre- or Co-requisite BSC 3017 with a minimum grade of C
This course is designed to teach ecology at four major levels: organismic, population, community and ecosystem. One of the aims is to interrelate the different levels of ecological study and to unify these via evolutionary and behavioral ecology. A second aim is to correlate the concepts of ecology with those learned in physiology to understand physiological ecology. This course will address both theoretical and empirical ecology as well as applied ecology with special emphasis on Florida's ecosystems and human impacts on them. NOTE: Credit is not given for both (PCB 3043C) and (PCB 3043/PCB3043L).

PCB 3063 Genetics (3.00 Credits)
(Prerequisite BSC 2010CH with a minimum grade of C or (Prerequisite BSC 2010 with a minimum grade of C and Prerequisite BSC 2010L with a minimum grade of C) ) and Prerequisite CHM 2046 with a minimum grade of C and Prerequisite CHM 2046L with a minimum grade of C and Pre- or Co-requisite PCB 3063L with a minimum grade of C
This course is designed to teach three major areas of genetics: the organization and transmission of genetic material, the molecular biology of gene expression and regulation, and the modification and evolution of genes and genomes. This course also provides an understanding of the history and process of genetics as an experimental science and to provide the student with a foundation for understanding the current advances and rapid changes in genetic engineering and genomics.NOTE: Credit is not given for both (PCB 3063C) and (PCB 3063/PCB 3063L).

PCB 3063L Genetics Lab (1.00 Credits)
(Prerequisite BSC 2010CH with a minimum grade of C or (Prerequisite BSC 2010 with a minimum grade of C and Prerequisite BSC 2010L with a minimum grade of C) ) and Prerequisite CHM 2046 with a minimum grade of C and Prerequisite CHM 2046L with a minimum grade of C and Pre- or Co-requisite PCB 3063 with a minimum grade of C
This course is designed to teach three major areas of genetics: the organization and transmission of genetic material, the molecular biology of gene expression and regulation, and the modification and evolution of genes and genomes. This course provides an understanding of the history and process of genetics as an experimental science as well as a foundation for understanding the current advances and rapid changes in the field of genetic engineering and genomics. (Note: Credit is not given for both (PCB 3063C) and (PCB 3063/ PCB3063L)).

PCB 4024 Molecular Biology (3.00 Credits)
(Prerequisite PCB 3063 with a minimum grade of C and Prerequisite PCB 3063L with a minimum grade of C) and (Prerequisite PCB 3023 with a minimum grade of C and Prerequisite PCB 3023L with a minimum grade of C)
This course provides a detailed overview of the molecular basis of the biological processes involved in cellular function with emphasis on the activities of DNA, RNA, and the regulation of gene expression. Course content focuses on the processes of transcription, translation and DNA replication in both prokaryotes and eukaryotes. This course emphasizes the control mechanisms that influence these cellular activities. Additional topics include post-transcriptional control of gene expression, mobile genetic elements, functional genomics, proteomics and bioinformatics. This course will include discussion sessions and problem solving of experimental data that teach interpretation of current molecular biological techniques.

PCB 4233 Immunology (3.00 Credits)
((Prerequisite BSC 2010 with a minimum grade of C and Prerequisite BSC 2010L with a minimum grade of C) or Prerequisite BSC 2010CH with a minimum grade of C) and ((Prerequisite MCB 3020 with a minimum grade of C and Prerequisite MCB 3020L with a minimum grade of C) or (Prerequisite PCB 3023 with a minimum grade of C and Prerequisite PCB 3023L with a minimum grade of C))

This course teaches the fundamentals and functions of the immune system. The role of the immune system in health and disease is a vital component of life and investigations into this system introduce the student to the organs, tissues, cells, and molecules of the immune system and their relationship to disease. The immune system involves complex interactions between blood cells, chemical signals, cellular signals, genetics, and foreign 'invaders' which allow us to merge concepts from biology, microbiology, biochemistry and genetics.

PCB 4253C Developmental Biology with Lab (4.00 Credits)
Prerequisite PCB 3063 with a minimum grade of C and Prerequisite PCB 3063L with a minimum grade of C
PCB 3023C is recommended prior to this course. The course focuses on the molecular mechanisms underlying patterns of embryonic development. Emphasis will be based on the experimental approaches taken to understand development using cellular and molecular mechanisms rather than descriptive embryology. Course content will cover fertilization, axis formation, cell specification, germ layer formation, differential gene expression and organogenesis. In addition current topics will be discussed, including by not limited to: development and disease, aging and regeneration, stem cell biology as well as environmental and evolutionary developmental mechanisms. Developmental biology is interdisciplinary, incorporating all aspects of the biological sciences and can be thought of as a capstone course in undergraduate education. This course is a combined lecture and lab class. The lab component helps students to understand the scientific process and to develop skills in observation, description, data analysis, basic statistics, literature review and evaluation, and writing.

PCB 4363C Physiological Ecology (4.00 Credits)
Prerequisite BSC 2011 and Prerequisite BSC 2011L and Prerequisite PCB 3043 and Prerequisite PCB 3043L
The aim of physiological ecology is to understand physiological systems in context of evolution and ecology. Physiological ecology considers questions such as "how does an organism's physiology enable or constrain its ecology?" and "via what mechanisms do physiological adaptations affect the evolutionary fitness or organisms" This course will examine how physiological systems that span levels from molecules to cells to whole organisms interact with exogenous factors such as evolution, ecology, and the environment. In addition, this course will investigate the biomechanical and evolutionary limits of these physiological systems. This course is a combined lecture and lab class.

PCB 4402 Disease Ecology (3.00 Credits)
(Prerequisite PCB 3043 with a minimum grade of C and Prerequisite PCB 3043L with a minimum grade of C) and (Prerequisite PCB 3063 with a minimum grade of C and Prerequisite PCB 3063L with a minimum grade of C) and (Prerequisite MCB 3020 with a minimum grade of C and Prerequisite MCB 3020L with a minimum grade of C)

This course is an introduction to the interdisciplinary field of disease ecology and its impact on wildlife and public health. Students will investigate host-pathogen interactions and the influence of environmental and ecological factors on the spread of disease in plant, animal, and human populations. Topics include, but are not limited to, predator-prey interactions, immune system response, pathogen transmission, and population modeling.

PCB 4454C Biostatistics with Lab (4.00 Credits)
Prerequisite STA 2023 or Prerequisite MAC 2234 or Permission of the Instructor
This course is designed to provide the use of statistics in the analysis of biological data. Quality statistical analyses begin with quality data, so early topics cover the collection and processing of data as well as the calculation of descriptive summary statistics. Subsequent lectures will focus on the linkage between statistical analyses and the scientific method, especially in terms of developing and testing appropriate hypotheses. The remainder of the course involves a discussion of various routine techniques used to analyze biological data, including t-tests, analysis of variance (ANOVA), and linear regression. This course is a combined lecture and lab class, and the lab component involves hands-on analyses of real-world biological data using common statistical analysis software. At the completion of the course students will have sufficient understanding of basic statistical techniques to analyze data from their own undergraduate research studies.

PCB 4674 Evolutionary Biology (3.00 Credits)
(Prerequisite PCB 3043 with a minimum grade of C and Prerequisite PCB 3043L with a minimum grade of C) and (Prerequisite PCB 3063 with a minimum grade of C and Prerequisite PCB 3063L with a minimum grade of C)
This lecture course is designed to teach the mechanisms of evolutionary change and the resulting patterns of microevolution, speciation and macroevolution. Students explore the sources of genetic variation, "evo-devo", and their roles in evolution. Students will investigate evidence of evolution and the relevance of evolution throughout biological disciplines. The course will emphasize the environmental pressures that drive adaptation and will investigate the molecular, morphological, physiological, behavioral and demographic adaptations resulting from specific environmental pressures.

PCB 4723 Comparative Physiology (3.00 Credits)
Pre- or Co-requisite PCB 4723L with a minimum grade of C and (Prerequisite PCB 3043 with a minimum grade of C and Prerequisite PCB 3043L with a minimum grade of C) and (Prerequisite PCB 3063 with a minimum grade of C and Prerequisite PCB 3063L with a minimum grade of C)
This course is designed to teach animal physiology from a comparative perspective that focuses on the interplay between environmental conditions and physiological adaptation and highlights the many similarities and differences seen among different types of organisms. It also stresses the significance of homeostasis and addresses the interdependency between structure and function. This course emphasizes an interdisciplinary approach in which concepts from physics and chemistry are merged with concepts from biology. (Note: Credit is only given for (PCB 4723C) or (PCB 4723/PCB 4723L)).

PCB 4723L Comparative Physiology Lab (1.00 Credits)
Pre- or Co-requisite PCB 4723 with a minimum grade of C and (Prerequisite PCB 3043 with a minimum grade of C and Prerequisite PCB 3043L with a minimum grade of C) and (Prerequisite PCB 3063 with a minimum grade of C and Prerequisite PCB 3063L with a minimum grade of C)
This course is designed to teach animal physiology from a comparative perspective that focuses on the interplay between environmental conditions and physiological adaptation and highlights the many similarities and differences seen among different types of organisms. It also stresses the significance of homeostasis and addresses the interdependency between structure and function. (Note: Credit is only given for either (PCB 4723C) or (PCB 4723/PCB 4723L)).

## PEM-PE Permformance Centered, Land

PEM 1177 Pilates Plus (1.00 Credits)
No Requisites Required
This course covers three modalities of wellness: Pilates, kickboxing and resistance work. The main concentration will be on Pilates. The Pilates method emphasizes the core, building the abs, the lower back and buttocks to enhance muscle balance. Pilates improves coordination, joint mobility, balance, alignment and poor postural habits. The fitness principles of muscular strength, endurance, flexibility, cardiovascular endurance and body composition will be emphasized in each of these modalities. Additional assessment and management of nutritional habits will be emphasized. Each technique will be illustrated by the instructor at various levels of competency, i.e., beginners, intermediate and advanced. Music will be used to accompany the choreography of each modality as well as other fitness props. This course may be repeated for a total of 5 credits.

PEM 2131 Weight Training (2.00 Credits)
No Requisites Required
This course is an overview of the basic principles of weight training and conditioning. The primary emphasis is to increase skeletal muscular development. Cardiovascular endurance and general fitness improvement is also involved. Course may be repeated 3 times for a total of 6 credits.

## PEN-Physical Education, Water

## PGY-Photography

PGY 2000 History of Photography (3.00 Credits)
No Requisites Required
In this course, the student will research early photographic processes, their applications, and influences on art trends. The student will examine the technological evolution of photography and the impact this progressive medium has on the growth of world culture. This course will focus on the inventors, entrepreneurs, artists and the network they created. It will examine how this shaped the foundation for the creation of a syntax of visual communication.

PGY 2107C Large Format Photography (3.00 Credits)
Prerequisite PGY 2404C with a minimum grade of C
This course is designed to enable students to evolve individually and as a group toward the understanding and creative utilization of visual technology. The program takes an interdisciplinary approach to experimental application of new technologies associated with photography and its impact on the culture, visual expression, and communications in the world today. Students will examine visual perspective by the ability to control the photographic image through the use of large format camera equipment. Students will examine the inherent optical distortion associated with human perception and camera lenses. Students will explore the various methods of correcting for optical distortions. Students will study the advantages of large format photography compared to conventional smaller cameras. The students will learn the diversity of controls and techniques which accompany larger formats. The emphasis will be a “hands-on” approach working with other students in an equipped photographic studio and laboratory designed to provide an environment for creative activity which reflects the inherent flexibility of medium and large format photography and how this application has expanded the visual syntax in all forms of expression.

PGY 2201C Photography Studio Lighting (3.00 Credits)
Prerequisite PGY 2800C with a minimum grade of C
This course introduces students to the foundational elements of lighting. Students will recognize the different types of lighting and how to control the quality of light through various techniques using both support materials and equipment. Following assignment criteria, students will effectively compose and manipulate their lighting, digitally capturing impactful imagery. Students will have the option to digitally enhance their imagery using editing software of their choice. A variety of photographers will be introduced to enlighten students of the diversity of possible lighting techniques and concepts being explored in studio lighting today. Students should have a basic knowledge of the use of computers and access to a DSLR digital camera.

PGY 2210C Professional Studio Portraiture (3.00 Credits)
Prerequisite PGY 2800C with a minimum grade of C
This is a course for students to explore on both an individual and group basis the utilization of photographic lighting equipment and techniques for portrait photography. The emphasis will be a "hands on" approach working with other students, models and potential clients in portrait situations. Students will develop basic lighting skills and practice in the production of studio portraits. Students will examine various methods of photographing individuals and groups of people in a studio environment and how photographic styles have expanded the visual syntax in all visual forms of expression and communication in cultures throughout the world.Course may be taken up to three times for credit.

PGY 2401C Photography I (3.00 Credits)
No Requisites Required
This course introduces the students to the fundamental elements of black and white photography. The course includes the study of camera operation, exposure control, film processing, printing the positive, print finishing, and presentation. Students will examine photographic compositional guidelines in the context of a series of exercises and assignments. It is through these assignments; students will have the opportunity to pursue the medium as both a personal expression and to build a technical foundation as a means to pursue a commercial application going forward in photographic industry. Course may be taken up to three times for credit.

PGY 2404C Intermediate Photography (3.00 Credits)
Prerequisite PGY 2800C with a minimum grade of C

In this course the student addresses advanced development of visual acuity, perception, and aesthetic sensibilities, as well as with advanced technical problems and skills. Advanced technical problems and skills include controlling various manipulative techniques obtainable through the camera, lighting and post production. Additional emphasis is placed on surveying photography’s various genres including journalism, editorial, landscape, illustrative and portrait. Course may be taken up to three times for credit.

PGY 2446C Alternative Processes/Photography (3.00 Credits)
Prerequisite PGY 2401C
This course is designed to enable students to evolve individually and as a group toward the utilization of historical photographic processes fused into new technologies. The program takes an interdisciplinary approach to experimental applications of old photographic technologies and examines the integration of computer technology into these processes and its impact on the culture, visual expression, and communications in the world today. Students will examine early non-silver photographic processes, such as Kalotypes, Cyanotypes, and Gum Bicromates and incorporate these processes with computer materials and techniques. Students will explore how the integration of these diverse applications can allow for greater and new creative discoveries in their approach to both photographic and computer related technologies. The emphasis will be a “hands-on” approach working with other students in an equipped photographic and electronic laboratory designed to provide an environment for creative activity which reflects the inherent flexibility of conventional and computer technologies and how this medium has expanded the visual syntax in all forms of expression.

PGY 2470C Themes for Photographers (3.00 Credits)
Prerequisite PGY 2800C with a minimum grade of C and Prerequisite PGY 2404C with a minimum grade of C

This course builds on the students' identified style and genre of photography that they have developed in previous courses. The student will have the opportunity to explore and develop their own thematic approach to communicating through photography. The student will create a body of work for each of the areas they choose to pursue in their photographic career. (Note: This course may be taken up to 3 times for a total of 9 credits.)

PGY 2475C Capstone: Photography Portfolio Development (3.00 Credits)
Prerequisite PGY 2470C with a minimum grade of C and Permission of Program Administrator.

In this capstone course, students develop a professional photography portfolio demonstrating competency in photography, digital imaging, and related media. Students refine selected photographs, strengthen technical and aesthetic quality, and apply contemporary methods for preparing images for professional presentation. Using industry-standard tools—such as Adobe Creative Cloud, digital editing workflows, and online portfolio platforms—students curate a cohesive body of photographic work aligned with their intended career path. Emphasis is placed on foundational photographic principles, visual communication, image enhancement, and effective portfolio assembly to support employment or further academic advancement.

PGY 2750C Introduction to Video Production (3.00 Credits)
Prerequisite PGY 2800C with a minimum grade of C
This course enables students to create short digital video productions. The course covers pre-production, production and post-production methods, strategies and techniques, including story/script development, interviewing, videography, audio recording and software editing. The course will prepare students with the professional practices to successfully pursue a career in the video industry workforce.

PGY 2800C Digital Photography (3.00 Credits)
No Requisites Required
This course introduces students to the foundational elements of digital photography. Students will recognize digital camera and lens components, optical principles, camera operation, image composition, digital image manipulation and image file management. Using their own captured images, students will learn to effectively examine their subject matter through the application of compositional and design elements. Students will explore the use of editing software for organizing, cataloging and retouching digital imagery and will research various artists and photographers identifying their significance and impact on photographic history. Prospective students should have a basic knowledge of the use of computers and must have access to a digital camera with manual controls. Course may be taken up to three times for credit. 92 contact hours.

PGY 2940C Professional Practices/Internship (3.00 Credits)
Prerequisite PGY 2201C with a minimum grade of C and Prerequisite DIG 2115C with a minimum grade of C
This course is designed to enable students to evolve individually and as a group toward the utilization of photographic technology. The program takes an interdisciplinary approach to experimental application of new technologies associated with photography and its impact on the culture, visual expression and communications in the world today. Students will utilize photographic skills and techniques acquired in the classroom and apply these applications in a pre-determined business or company. Students will explore their photographic discipline in an on-site training program/internship for knowledge and experience. The emphasis will be a "hands-on" approach working with other students in an equipped photographic and electronic laboratory and on-location incorporating academic discussions and practices with job related experience. The program is designed to provide an environment for creative activity which reflects the inherent flexibility of the traditional and new technologies and how this medium has expanded the visual syntax in all forms of expression.

## PHH-Philosophy, History of

PHH 2101 Introduction to Ancient Greek Philosophy (3.00 Credits)
Prerequisite ENC 0020 or Prerequisite EAP 1695 or Prerequisite satisfactory score on the SPC placement test.
This introductory survey of classical Greek Philosophy provides a rich evaluation of ancient schools of thought and their connection to Western culture. A historical and critical examination is conducted of these schools of thought addressing the issues in metaphysics, epistemology and axiology (ethics, aesthetics, and theology.) Discussion as well as lecture will focus on historically and philosophically important philosophers, including Thales, Pythagoras, Heraclitus, Parmenides and other Pre-Socratic philosophers, as well as Plato and Aristotle.

## PHI-Philosophy

PHI 1010 Introduction to Philosophy (3.00 Credits)
No Requisites Required

In this course, students will be introduced to the nature of philosophy, philosophical thinking, major intellectual movements in the history of philosophy, including topics from the western philosophical tradition, and various problems in philosophy. Students will strengthen their intellectual skills, become more effective learners, and develop broad foundational knowledge. ***State Core Course Description (State Rule 6A-14.0303).*** Students will employ critical analysis, examination, and evaluation of arguments, issues, and ideas central to philosophy. Students will use discussion and debate concerning approaches to a variety of philosophical problems. **This course satisfies the Humanities General Education Core, and FL state transfer requirements.** This course partially satisfies the writing requirements outlined in the General Education Requirements. Credit is not given for both PHI 1010H and PHI 1010 as these courses are equivalent.

PHI 1010H Honors Introduction to Philosophy (3.00 Credits)
Prerequisite Appropriate score on the SPC placement test or approval of the Dean. and

In this course, students will be introduced to the nature of philosophy, philosophical thinking, major intellectual movements in the history of philosophy, including topics from the western philosophical tradition, and various problems in philosophy. Students will strengthen their intellectual skills, become more effective learners, and develop broad foundational knowledge. ***State Core Course Description (State Rule 6A-14.0303).*** Students will employ critical analysis, examination, and evaluation of arguments, issues, and ideas central to philosophy. Students will use discussion and debate concerning approaches to a variety of philosophical problems. **This course satisfies the Humanities General Education Core, and FL state transfer requirements.** This course partially satisfies the writing requirements outlined in the General Education Requirements. Credit is not given for both PHI 1010H and PHI 1010 as these courses are equivalent.

PHI 1600 Introduction to Ethics (3.00 Credits)
(Prerequisite REA 0017 and Prerequisite ENC 0025) or Prerequisite EAP 1695 or Appropriate score on the college placement test.

This course is an overview of foundational concepts, questions, and issues in ethics. Special emphases are placed on developing the critical thinking skills necessary to understand cornerstone ethical ideas from both historical and contemporary ethical theories, including selections from the Western philosophical canon. Additional foci include developing moral sensitivity and the ability to diagnose, morally evaluate, and form conclusions about contemporary ethical issues. This course partially satisfies the writing requirements outlined in the General Education Requirements and meets the College's general education requirements for ethics. (Note: Credit is not given for both PHI 1600 and any of the following courses: PHI 1603, PHI 1602H, PHI 1631, PHI 2621, PHI 2622, PHI 2635, or PHI 2649. Study Abroad opportunities may apply to this course).

PHI 1600H Honors Introduction to Ethics (3.00 Credits)
Prerequisite Appropriate score on SPC placement test or approval of the Dean.

This course is an overview of foundational concepts, questions, and issues in ethics. Special emphases are placed on developing the critical thinking skills necessary to understand cornerstone ethical ideas from both historical and contemporary ethical theories, including selections from the Western philosophical canon. Additional foci include developing moral sensitivity and the ability to diagnose, morally evaluate, and form conclusions about contemporary ethical issues. This course partially satisfies the writing requirements outlined in the General Education Requirements and meets the College's general education requirements for ethics. (Note: Credit is not given for both PHI 1600 and any of the following courses: PHI 1603, PHI 1602H, PHI 1631, PHI 2621, PHI 2622, PHI 2635, or PHI 2649. Study Abroad opportunities may apply to this course).

PHI 2103 Critical Thinking and Ethical Decision Making (3.00 Credits)
Pre- or Co-requisite PHI 1600 with a minimum grade of C or Pre- or Co-requisite PHI 1600H with a minimum grade of C or Pre- or Co-requisite PHI 2621 with a minimum grade of C

This course introduces students to an expanded set of critical thinking skills and techniques, including, but not limited to, the ability to evaluate arguments for soundness and cogency, to distinguish between good reasons and fallacious arguments, and to recognize the difference between information and misinformation. Students will practice these skills by applying them to arguments in contemporary life, including evaluating claims found in the media, advertising, political debates, and the sciences. Students taking critical thinking have the opportunity to become better at analyzing and assessing such situations, with the goal of making more ethical and responsible decisions.

PHI 2621 Applied Ethics II (1.00 Credits)
Prerequisite PHI 1603

This course is designed to meet the needs of the student who has initially completed a 2 credit Ethics course, but needs a 3 credit Ethics course. Students will have the opportunity to learn to practically approach, recognize, understand, and solve ethical problems confronting individuals in today's society. Students will have the opportunity to learn concepts in applied ethics and selected ethical theories, which represent main themes in moral philosophy. Students will have the opportunity to develop skills necessary for critical thinking and responsible decision making. Credit will not be given for both PHI 2621 and any of the following courses: PHI 1600,1602H, 2635, 2649,1631 or PHI 2622.

PHI 2623 Ethics for Educators (3.00 Credits)
Prerequisite BA or BS degree or permission of Program Director.
This course is designed to meet the needs of current K-12 educators who teach or will be teaching in the State of Florida, but need an approved Ethics Course to be certified or recertified to teach. This course is a practical approach to recognizing, understanding and solving ethical problems confronting educators in today's society. Students will learn concepts in applied ethics and selected ethical theories, which represent main themes in moral philosophy. Students will learn current Principles of Professional Conduct, Board of Education rules and relevant Florida Statutes, and will learn the use of said codes, rules and laws in resolving ethical issues. Emphasis will be placed on the development of skills necessary for critical thinking and responsible decision making in the educational arena.

PHI 2624 Ethics in Popular Culture and Entertainment (3.00 Credits)
Prerequisite PHI 1600 and Prerequisite PHI 1600H and Prerequisite PHI 1631 and (Prerequisite PHI 2635 or Prerequisite PHI 2649or permission of program director)
This course is a study of the fundamental concepts of classical and modern approaches to moral reasoning as identified in various forms of popular culture and entertainment. A review of fundamental ethical definitions and concepts, elements of critical thinking and logic, and classical and contemporary approaches to moral reasoning will precede the examination and analysis of selected forms of popular culture and entertainment. The analysis phase will consist of an examination of the selected materials with a view to identifying the presence of issues and dilemmas of moral significance. Fictional and historical characters will then be assessed as to their critical thinking processes and their approaches to the resolution of moral dilemmas.

PHI 2642 Ethics of Social Diversity (3.00 Credits)
Pre- or Co-requisite PHI 1600 with a minimum grade of C or Pre- or Co-requisite PHI 1600H with a minimum grade of C or Pre- or Co-requisite PHI 2621 with a minimum grade of C

This course is an ethical examination of tensions that arise in hybrid social interactions, which include people of different ethnicities, genders, religions, lifestyles, sexual orientations, and value frameworks. This course will focus on understanding the ethical implications of phenomena such as differential treatment, unequal opportunities, disadvantage, and how best to address multiplicity in heterogeneous societies. The class will focus on both theory and practice, examining discussions of liberty, equality, and community, and integrate them into ethical discussions about topics like affirmative action, hate speech codes, or revisionist pedagogy.

PHI 2647 Ethics in Science and Technology (3.00 Credits)
Pre- or Co-requisite PHI 1600 with a minimum grade of C or Pre- or Co-requisite PHI 1600H with a minimum grade of C or Pre- or Co-requisite PHI 2621 with a minimum grade of C

This course extends critical thinking and ethical reasoning to issues in the sciences and technology fields. Reasoning about problems in these areas is both vital and timely, as the sciences have transformed the contemporary world. Whether this is always for the best is open for debate. Students will have the opportunity to investigate and evaluate questions about scientific practices, the direction and purpose of technological development, problems connected to artificial intelligence, robotics, enhancement technologies, virtual reality, and the risks associated with existing and emerging technologies.

## PHT-Physical Therapy

PHT 1121 Functional Anatomy and Kinesiology (3.00 Credits)
Prerequisite BSC 2085 with a minimum grade of C and Prerequisite BSC 2085L with a minimum grade of C and Pre- or Co-requisite PHT 1121L with a minimum grade of C

This course is devoted to the study of the structure and function of the musculoskeletal system with emphasis on the mechanical (functional) aspects of human motion and the application of kinesiology as related to therapeutic exercise.

PHT 1121L Functional Anatomy and Kinesiology Laboratory (2.00 Credits)
Prerequisite BSC 2085 with a minimum grade of C and Prerequisite BSC 2085L with a minimum grade of C and Pre- or Co-requisite PHT 1121 with a minimum grade of C

Within a laboratory environment, this course is devoted to the study of the structure and function of the musculoskeletal system with emphasis on the mechanical (functional) aspects of human motion and the application of kinesiology as related to therapeutic exercise. Observational, manual dexterity and communication skills will be developed relevant to analyzing, demonstrating, monitoring and/or modifying therapeutic exercise/routines.

PHT 1200 Introduction to Basic Patient Care (3.00 Credits)
Prerequisite PHI 1600 and Prerequisite HSC 1531 and Prerequisite computer competency met. and Pre- or Co-requisite PHT 1200L
This course is an introduction to the field of physical therapy including role orientation, professional organizational structure, modality principles used for basic patient care and disease processes. Role orientation, ethics, legal aspects, limitation and relationships will be explored relative to the physician, registered physical therapist and the patient.

PHT 1200L Basic Patient Care Laboratory (3.00 Credits)
Prerequisite PHI 1600 and Prerequisite HSC 1531 and Pre- or Co-requisite PHT 1200 with a minimum grade of C and Prerequisite computer competency met.

This is a laboratory course in which students will practice activities and modalities basic to the care of patients in health agencies. The focus is the development of manual dexterity with patient safety and comfort in mind. The college laboratory will be utilized for practice demonstration.

PHT 1217 Physical Therapy Principles and Procedures (3.00 Credits)
Prerequisite PHT 1200 with a minimum grade of C and Prerequisite PHT 1200L with a minimum grade of C and Prerequisite PHT 1121 with a minimum grade of C and Prerequisite PHT 1121L with a minimum grade of C and Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C and Pre- or Co-requisite PHT 1217L with a minimum grade of C
This is a course to introduce the principles of physical therapy (PT) treatment procedures and modalities used in patient care. Specialized vocabulary and selected medical-surgical conditions are presented.

PHT 1217L Physical Therapy Principles and Procedures Laboratory (3.00 Credits)
Prerequisite PHT 1200 with a minimum grade of C and Prerequisite PHT 1200L with a minimum grade of C and Prerequisite PHT 1121 with a minimum grade of C and Prerequisite PHT 1121L with a minimum grade of C and Prerequisite ENC 1101 with a minimum grade of C and Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C and Pre- or Co-requisite PHT 1217 with a minimum grade of C
Basic skills will be developed and principles applied involving functional anatomy and kinesiology, basic therapeutic exercise, and application of modalities relative to caring for the patient. Demonstrations, student practice in college laboratory and in affiliated health agencies constitute course activities.

PHT 1801L Physical Therapy Clinical Practice I (4.00 Credits)
Prerequisite PHT 2252 with a minimum grade of C and Prerequisite PHT 2252L with a minimum grade of C and Prerequisite PSY 1012 with a minimum grade of C and Prerequisite Any General Education Humanities Core course with a minimum grade of C
This course allows the student to correlate didactic course work with basic patient care skills in the clinical setting utilizing information learned in the first year of the physical therapist assistant program. Each student is assigned to a clinical agency and performs specific physical therapy modalities and procedures on a variety of patients under the close supervision of a physical therapist. (Note: This course requires 40 clinical hours per week for 5.5 weeks.)

PHT 2162 Neurological Disabilities and Treatment (3.00 Credits)
Prerequisite PHT 1801L with a minimum grade of C
This course is devoted to the advanced study of the nervous system and selected neurological disabilities encountered in physical therapy practice. Emphasis is on the etiology, pathology and clinical picture of diseases studied. Use of physical therapy modalities and procedures most effective for each neurological condition is discussed.

PHT 2220 Therapeutic Exercise in Physical Therapy (2.00 Credits)
Prerequisite PHT 1801L with a minimum grade of C and Pre- or Co-requisite PHT 2220L with a minimum grade of C
This course provides an overview of the neurophysiological and cardiovascular basis for application of therapeutic exercise. The rationale for and functional basis of therapeutic exercise is correlated with selected patient pathologies.

PHT 2220L Therapeutic Exercise in Physical Therapy Lab (2.00 Credits)
Prerequisite PHT 1801L with a minimum grade of C and Pre- or Co-requisite PHT 2220 with a minimum grade of C
Within the laboratory environment, this course will be devoted to the study and performance of power-assisted exercise modes and cardiovascular-based and neurophysiologically-based therapeutic exercise programs. Practice in the laboratory will involve demonstration, observation, analysis and performance monitoring.

PHT 2252 Orthopedic Disabilities and Treatment (3.00 Credits)
Prerequisite PHT 1121 with a minimum grade of C and Prerequisite PHT 1121L with a minimum grade of C and Prerequisite PHT 1200 with a minimum grade of C and Prerequisite PHT 1200L with a minimum grade of C and Pre- or Co-requisite PHT 1217 with a minimum grade of C and Pre- or Co-requisite PHT 1217L with a minimum grade of C and Pre- or Co-requisite PHT 2252L with a minimum grade of C
This course provides a basic knowledge of selected orthopedic disabilities encountered in physical therapy practice. Emphasis is on the etiology, pathology and clinical picture of diseases studied. Use of physical therapy modalities and procedures used in each disability is discussed.

PHT 2252L Orthopedic Disabilities and Treatment Laboratory (2.00 Credits)
Pre- or Co-requisite PHT 2252 with a minimum grade of C and Pre- or Co-requisite PHT 1217 with a minimum grade of C and Pre- or Co-requisite PHT 1217L with a minimum grade of C
This course provides the opportunity to develop basic skills in data collection and more advanced skills in therapeutic exercise techniques for common orthopedic conditions. Exercise programs for specific orthopedic pathologies are presented and practiced.

PHT 2810L Physical Therapy Clinical Practice II (4.00 Credits)
Prerequisite PHT 2220 with a minimum grade of C and Prerequisite PHT 2220L with a minimum grade of C and Prerequisite College level Mathematics general education core with a minimum grade of C and Prerequisite DEP 2004 with a minimum grade of C
This clinical and laboratory course is correlated with previous didactic and lab material. It provides the student with selected experiences in the college laboratory and health care agency. Emphasis is placed on more complex therapeutic procedures in clinical practice. Problem-solving techniques are employed in clinical decision-making. (Note: 40 clinical hours per week for five (5) weeks and 20 hours in the college laboratory).

PHT 2820L Physical Therapy Clinical Practice III (4.00 Credits)
Prerequisite PHT 2810L with a minimum grade of C and Prerequisite PHT 2931 with a minimum grade of C

This clinical course provides the student with selected experiences in a healthcare agency under the direct supervision of a physical therapist/physical therapist assistant. Emphasis is placed on complex/advanced therapeutic procedures in clinical practice. Advanced problem-solving techniques are employed in clinical decision-making. (Note: This course is a full-time clinical experience x 6 weeks.)

PHT 2931 Trends in Physical Therapy (2.00 Credits)
Prerequisite PHT 2220 with a minimum grade of C and Prerequisite PHT 2220L with a minimum grade of C and Prerequisite PHT 2252 with a minimum grade of C and Prerequisite PHT 2252L with a minimum grade of C and Prerequisite PHT 2162 with a minimum grade of C and Pre- or Co-requisite PHT 2810L with a minimum grade of C
This course is a seminar-type class which will explore the newer trends involving the role of the professional team, the professional organization, legal and ethical implications and legislation (including state regulations as well as Medicare and Medicaid regulations). Historical patterns in the development of the profession of physical therapy and projections of future directions in light of influence from the past will be explored.

## PHY-Physics

PHY 1048L Physics Laboratory I (1.00 Credits)
(Pre- or Co-requisite PHY 1053 with a minimum grade of C or Pre- or Co-requisite PHY 2048 with a minimum grade of C) or Permission of the Program
This course is to provide laboratory experience with concepts and principles of mechanics, such as kinematics, Newton's laws, waves and heat. Students will collect, analyze, and interpret data. This course has a substantial writing requirement. (Credit is only given for PHY 1048L or PHY 1048LH.)

PHY 1049L Physics Laboratory II (1.00 Credits)
Prerequisite PHY 1048L with a minimum grade of C and (Pre- or Co-requisite PHY 1054 with a minimum grade of C or Pre- or Co-requisite PHY 2049 with a minimum grade of C)
A continuation of Physics Laboratory I, this course provides laboratory experiences in concepts and principles of electricity, magnetism, and light. This course has a substantial writing requirement.

PHY 1053 General Physics I (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or (Prerequisite EAP 1695 and (Prerequisite MAC 1114 with a minimum grade of C or Prerequisite MAC 1147 with a minimum grade of C) and (Pre- or Co-requisite PHY 1048L with a minimum grade of C and Permission of the Program))

This course is the first in a two-part series intended for non-physics majors, offering an algebra and trigonometry approach to topics such as kinematics, dynamics, energy, momentum, rotational motion, fluid dynamics, oscillatory motion, and waves. The course fosters analytical and critical thinking skills to promote a scientific understanding of the real world. ***State Core Course Description (State Rule 6A-14.0303).*** **This course satisfies the Natural Sciences General Education Core.** (Credit is not given for both PHY 1053 and PHY 1053H.)

PHY 1054 General Physics II (3.00 Credits)
Prerequisite PHY 1048L with a minimum grade of C and (Prerequisite PHY 1053 with a minimum grade of C or Prerequisite PHY 2048 with a minimum grade of C) and Pre- or Co-requisite PHY 1049L with a minimum grade of C
Subject matter includes electricity, magnetism, light, and some modern physics. A course for students not majoring in the physical sciences. (Credit is only given for PHY 1054 or PHY 2049.)

PHY 2048 Physics I (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or (Prerequisite EAP 1695 and Prerequisite MAC 2311 with a minimum grade of C and (Pre- or Co-requisite PHY 1048L with a minimum grade of C or Permission of the Program))

This calculus-based course serves as the first in a two-part series, covering topics like kinematics, dynamics, energy, momentum, rotational motion, fluid dynamics, oscillatory motion, and waves. Designed for science and engineering majors, the course integrates critical thinking, analytical skills, and real-world applications. ***State Core Course Description (State Rule 6A-14.0303).*** **This course satisfies the Natural Sciences General Education Core.** Credit is not given for both PHY 2048H and PHY 2048.

PHY 2049 Physics II (3.00 Credits)
Prerequisite PHY 2048 with a minimum grade of C and Prerequisite PHY 1048L with a minimum grade of C and Prerequisite MAC 2312 with a minimum grade of C and Pre- or Co-requisite PHY 1049L with a minimum grade of C
This course is the study of theory of electricity and magnetism, nature of light, electromagnetic radiation, optics, and selected topics in modern physics. Calculus will be used in problem solving. This course is intended for physics majors and engineering students.

## PLA-Paralegal/Legal Assistant/Legal Administration

PLA 1003 Introduction to Paralegalism (3.00 Credits)
Prerequisite Dev Level 2 Writing Met and Prerequisite Dev Level 2 Reading Met
Students will be provided a general perspective of the legal system and the role of a paralegal within that system. Students will get a view of the typical daily paralegal duties and responsibilities. They will become familiar with the most common skills and competencies required of a paralegal such as: legal analysis; legal research and writing; and interview and investigation. Students will study the various operations and structures of the court systems, administrative agencies, private law firms and public sector offices. In addition, the student will understand the role a paralegal plays in various areas of the law and the diverse functions performed by paralegals within those distinctive fields. Students will examine the professional and ethical regulations lawyers and paralegals must follow. Students will demonstrate knowledge of specific legal terminology and the main principles of law office management. Students will be given an opportunity to develop the most important competencies and hands-on skills within the classroom setting and in a real-world context through participation in voluntary service within the legal profession.

PLA 1104 Legal Research and Writing (3.00 Credits)
Pre- or Co-requisite PLA 1003 and (Pre- or Co-requisite ENC 1101 or Pre- or Co-requisite ENC 1101H or Pre- or Co-requisite IDS 1101H)

This course provides students an opportunity to gain a working knowledge of the major techniques of legal research and writing. Students will be introduced to the American Legal System, legal publications, use of legal publications, how to select the applicable law, and how to read and interpret the law. Students will complete assigned problems in legal research and will draft legal memoranda and briefs.

PLA 1361 Techniques of Interview and Investigation (3.00 Credits)
Pre- or Co-requisite PLA 1003 with a minimum grade of C
This course is designed to enhance communication skills and acquaint the student with the techniques of skillful investigation. Students will receive training in methods of interviewing. Fact analysis, sources of evidence and special investigative problems will be explored. Emphasis is placed on human relations skills in working with people.

PLA 1730 Online Legal Research (1.00 Credits)
Prerequisite PLA 1104 with a minimum grade of C

This course builds legal research skills using online resources, including public and subscription materials. The student will apply the results to factual scenarios.

PLA 1763 Law Office Practice and Technology (3.00 Credits)
Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1101H with a minimum grade of C
This course analyzes the fundamental objectives of the management of a law office, the essential technology used in a law office, management concepts, and essential communication skills. Additional study will be focused upon the organization of private, corporate and government legal departments. Major attention will be upon administrative systems and procedures; timekeeping and accounting practices; compensation and profit distribution.

PLA 2114 Advanced Legal Research and Writing (3.00 Credits)
Prerequisite PLA 1104 with a minimum grade of C

In this course, students will have the opportunity to learn how to apply their legal research skills to given hypothetical scenarios and create written documents for the legal profession. Students will be able to engage in a variety of research and writing projects to deepen their understanding of Federal and Florida criminal and civil law.

PLA 2201 Civil Law and Procedure (3.00 Credits)
Pre- or Co-requisite PLA 1003 with a minimum grade of C
This course is designed to prepare the legal assistant to assist the trial attorney in preparing for civil litigation, trial, alternative dispute resolution methods, and post-trial proceedings in the Florida and Federal courts. The course covers substantive civil law, the Florida and Federal Rules of Civil and Appellate Procedure and related matters including drafting of pleadings, preparing discovery documents, drafting motions, drafting settlement proposals, preparation of a trial brief, abstracting of depositions, trial procedure, and appellate jurisdiction.

PLA 2203 Civil Litigation I (3.00 Credits)
Prerequisite PLA 1003 with a minimum grade of C
This course is designed to prepare the legal assistant to assist the trial attorney in preparing civil litigation in the Florida and Federal courts. The course covers substantive civil law, the Florida and Federal Rules of Civil Procedure and related matters including drafting of pleadings, preparing interrogatories and answers.

PLA 2223 Civil Litigation II (3.00 Credits)
Prerequisite PLA 2203 with a minimum grade of C and Prerequisite any approved Speech course.
This course is designed to prepare the paralegal to assist the civil trial attorney in civil litigation, mediation and arbitration in Florida state and federal actions. This course covers the Florida and Federal Rules of Civil and Appellate Procedure and related matters including the drafting of settlement proposals, preparation of a trial brief, abstracting of depositions, trial procedure and appellate jurisdiction. The course also addresses administrative law systems.

PLA 2304 Criminal Law and Procedure (3.00 Credits)
Prerequisite PLA 1003 with a minimum grade of C
This course is designed to prepare the paralegal to assist the trial attorney in preparing for criminal litigation in the Florida and federal courts. Special emphasis is placed on substantive criminal law; federal constitutional law; application of the state and federal Rules of Criminal Procedure; and preparation of trial documents including voir dire charts, abstracts of depositions, motions and proposed jury instructions. Criminal appeals will be covered as well.

PLA 2433 Business Organizations (3.00 Credits)
Prerequisite PLA 1003 with a minimum grade of C and Prerequisite BUL 2241
This course will acquaint the student with typical legal functions connected with the formation and operation of a variety of business entities. It will primarily consider paralegal functions in the field of corporate law, including organization and creation of a corporation, continuing corporate operation problems, and typical corporate variations. These will be compared with the formation, operation and regulation of other types of business organization including sole proprietorships, partnerships, limited liability companies and others. Students will examine principles of insurance law, corporate bankruptcy, employment and labor law, wills, estates and trusts, negotiable instruments, commercial paper, and secured transactions.

PLA 2600 Wills, Estates, Trusts, & Probate Administration (3.00 Credits)
Prerequisite PLA 1003 with a minimum grade of C
This course deals with the basic legal concepts of the more common forms of wills, and the basic procedures and fundamental principles of law applicable to the formal and summary administration of intestate and testate estates with a basic analysis of estate fiduciary accounting. The organization and jurisdiction of the probate division of the circuit courts. The nature and function of testamentary and inter vivos trusts. The basic legal concepts and procedures of guardianship law and with the principles and procedures of elder care planning and advance directives.

PLA 2610 Real Estate Transactions (3.00 Credits)
Prerequisite PLA 1003 with a minimum grade of C
This course is designed to prepare the paralegal to assist in the more common types of real estate transactions and conveyances, such as deeds, contracts, and leases. Emphasis is placed on drafting problems involving these various instruments, and proper methods of recording, searching and closing. Topics include business brokerage operations, property law, deeds, mortgages, financing, taxes, planning and zoning, appraisal, real estate investment and market analysis, public housing, governmental regulations, ethical issues, and case studies of selected topics in agency and brokerage operations. Also included will be preparation of real estate contracts and closing statements.

PLA 2800 Family Law (3.00 Credits)
Prerequisite PLA 1003 with a minimum grade of C
This course will introduce the student to pleading and practice in the field of family law including dissolution, annulment, separate maintenance, alternative dispute resolution, paternity, powers of attorney, juvenile matters, and modification actions. Emphasis is placed on drafting pleadings and agreements, dealing with forms, methods of discovery, and trial preparation. The student will complete a related research project.

PLA 2940 Legal Assistant Seminar and Work Experience (3.00 Credits)
Prerequisite Permission of the Program

This course equips students with essential skills for a successful transition to the professional world. Students learn self-assessment, resume writing, interview techniques, networking, and workplace etiquette. They explore professional branding, online presence, and ethical social media use. Practical training includes mock interviews, group discussions, and interactive exercises. Emphasis is placed on internship preparation and completion of 100 hours of training/internship time, including identifying opportunities, crafting applications, and maximizing internship experiences. Students will have an opportunity to develop strong job search skills, professionalism, and decision-making abilities.

PLA 3240 Alternative Dispute Resolution (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Permission of the Program
This course is designed to provide an overview of mediation procedure and governing law in Florida. Additionally, it will provide students with the fundamental tools for conflict resolution through negotiation and mediation and will enable them to both understand and apply successful conflict resolution in their forthcoming roles within the legal community.

PLA 3306 Criminal Law and Procedure (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Prerequisite PLA 2114 with a minimum grade of C
This course is developed both topically and historically to approach the substantive criminal law and criminal procedure for the upper division student. The course covers the history and basis of U.S. criminal law, delves into an analytical study of the various types of crimes and defenses, and provides an in-depth treatment and real-world view of U.S. criminal procedure.

PLA 3410 Intellectual Property Law (3.00 Credits)
Pre- or Co-requisite PLA 2114 and Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course will provide the student with a working knowledge of the types, nature, registration requirements, and enforcement of patents, trademarks, copyright, trade secrets and trade dress. The student will also be exposed to procedural requirements in protecting and enforcing intellectual property. A component of this course also discusses current and future intellectual property issues on the internet and in the entertainment industry.

PLA 3467 Bankruptcy (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Pre- or Co-requisite PLA 2114
This course gives the student an introduction into the purpose and structure of the bankruptcy laws. This course is designed to teach the student the basic steps a case takes under Chapter 7, 11, and 13 of the Bankruptcy Code. This course will define and demonstrate basic bankruptcy terminology including a discussion of the various roles of debtors, creditors, trustees, and judges in a typical bankruptcy case.

PLA 3474 Labor and Employment Law (3.00 Credits)
(Prerequisite BUL 2241 with a minimum grade of C or Prerequisite BUL 2131 with a minimum grade of C or Prerequisite BUL 3310 with a minimum grade of C or Prerequisite BUL 3320 with a minimum grade of C) and Prerequisite PLA 2114 with a minimum grade of C
This course introduces the student to the basic laws governing labor and employment in the United States with a focus on compliance. Topics covered include the employer/employee relationship, statutory law regarding the workplace, the historical and regulatory scheme of workers compensation, unemployment compensation, the basic statutory law, administrative law, and enforcement scheme governing labor and employment; collective bargaining laws; and civil service and civil rights in the public sector.

PLA 3563 Insurance Law (3.00 Credits)
(Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Permission of the Program) and Prerequisite PLA 2114 with a minimum grade of C
This course examines the nature of insurance, insurable interests, the definitions of risk, persons insured, the procedures for filing claims, defenses of the insurer, doctrines of waiver and estoppel, measures of recovery, the insurer's duty to defend, bad faith causes of action, reinsurance, bonds, and regulation of insurance.

PLA 3703 Seminar in Professional Responsibility (3.00 Credits)
(Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Paralegal Studies (Certificate with Financial Aid Eligibility) (LEGAL-CT)) and Pre- or Co-requisite PLA 2114
This course covers ethical responsibilities of legal professionals, a study in the canons of legal ethics, and areas of liability for professional malpractice. This course requires the student to participate in a community service-learning project approved by the college, instructor, and student.

PLA 3723 Logic and the Law (3.00 Credits)
Pre- or Co-requisite PLA 2114 and Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course will introduce students to various forms of reasoning and informal fallacies. Subsequently, the course will conduct an in-depth study of deductive syllogistic logic and will conclude by introducing the quantification techniques of propositional and predicate logic (first-order symbolic logic). The course includes logic games and application of logical analytical principles to legal writing.

PLA 3734 Computers and the Law Office (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Pre- or Co-requisite PLA 2114
This course introduces the student to the law office work environment and contains instruction and practice on computer programs common to law offices. Applications will include word processing, spreadsheets, databases, document preparation and billing software.

PLA 3873 Securities Law (3.00 Credits)
Pre- or Co-requisite PLA 2114 and Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course surveys federal and state regulation of securities from initial registration and issuance to public trading. The course focuses on the nature and extent of investor protection and the duties and liabilities of corporate officers and directors, the issuer, and others. Various aspects of securities regulation in the area of business entity finance are discussed including such regulatory schemes as the Securities Act of 1933, the Securities Exchange Act of 1934, and the Florida Blue Sky laws.

PLA 3885 United States Constitutional Law (3.00 Credits)
(Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Pre- or Co-requisite PLA 2114) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS)
This course is developed both topically and historically to approach the judicial review process, the doctrine of implied powers, the three branches of power, substantive due process along with equal protection, civil rights, free speech and religion.

PLA 4116 Legal Writing Seminar (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Prerequisite PLA 2114 with a minimum grade of C
This course provides a comprehensive review of the entire legal researching and writing process. The further development of legal researching and writing skills is fostered with special emphasis on analyzing and preparing documents for either the state or federal court system.

PLA 4225 Civil Trial Practice (3.00 Credits)
Prerequisite PLA 2203 and Prerequisite PLA 2114

This course is designed to prepare the legal assistant to assist the civil trial attorney in civil litigation in Florida state and federal actions by providing experience preparing for trial. This course covers the Florida and Federal Rules of Civil and Appellate Procedure and the application of the Rules in litigation and the appeals process. The course will teach students how to prepare for a trial including abstracting depositions, preparing a trial brief, preparing pre-trial motions, constructing a trial strategy, and utilizing skills in a mock trial. This course builds on PLA 2203 with a strong focus on trial preparation and practice. Not intended for students who have taken PLA 2223.

PLA 4263 Evidence Law (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Prerequisite PLA 2114 with a minimum grade of C
This course is designed to introduce the student to the use of evidence in a legal cause of action, the various types of evidence, the paralegal's role in gathering and organizing that evidence, and effective use in alternative dispute resolution or trial. Students will also be taught the importance of the preservation of evidence and chain of custody. The student will be versed in the Federal and Florida Rules of Evidence.

PLA 4275 Tort and Personal Injury Law (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Prerequisite PLA 2114 with a minimum grade of C and (Prerequisite PLA 2203 with a minimum grade of C or Prerequisite PLA 2201 with a minimum grade of C)
This course is intended to provide an overview of basic concepts and laws within tort and personal injury law. Topics covered include intentional torts, the four elements of negligence, strict liability torts, various types of defamation, malpractice, insurance, and business torts. The applicable defenses to the aforementioned torts will be covered as well. In addition, it will provide the student fundamental tools in this area of the law concerning how law firms function, assessing cases for settlement value, investigating claims, billing hours, and evaluating insurance policies.

PLA 4404 Commercial Transactions (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and (Prerequisite BUL 2241 with a minimum grade of C or Prerequisite BUL 2131 with a minimum grade of C or Prerequisite BUL 3310 with a minimum grade of C or Prerequisite BUL 3320 with a minimum grade of C)
In this practical skills course, students review and prepare transactional documents associated with the most common business transactions and closings. This course requires the student to be proficient with computer applications as the class will be conducted in a computer lab.

PLA 4522 Health Care Law (3.00 Credits)
Prerequisite BUL 2241 with a minimum grade of C or Prerequisite BUL 2131 with a minimum grade of C or Prerequisite BUL 3310 with a minimum grade of C or Prerequisite BUL 3320 with a minimum grade of C or Permission of the Program
This course is intended to provide an overview of regulations and laws applying to the health care system. Topics covered include the contractual relationship established between patient and provider as well as patient and health insurance company; state and federal regulations regarding licensing, health care facilities, and health care insurance; and state and federal laws governing health care, privacy and bioethics. In addition, the course will give an in-depth look at the governing case law in each of these areas as well as addressing issues surrounding liability in the health care profession and medical malpractice.

PLA 4554 Environmental Law (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Prerequisite PLA 2114 with a minimum grade of C
This course is intended to provide an overview of concepts and laws within environmental law. Topics covered include the history and foundations of environmental law and the main laws and regulations surrounding the protection of our environment. An in-depth examination of the applicable laws and regulations will be pursued to achieve the requisite knowledge of environmental issues.

PLA 4607 Estate Planning and Administration (3.00 Credits)
Prerequisite PLA 2114 with a minimum grade of C
This course equips students with the basic drafting requirements of wills, trust documents and advance care directives under the laws of Florida. Students will understand the eligibility for and process of summary administration, family administration and formal administration of both testate and intestate estates. Tax and other financial consequences will be addressed.

PLA 4613 Real Property Law (3.00 Credits)
(Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Permission of the Program) and (Prerequisite BUL 2241 with a minimum grade of C or Prerequisite BUL 2131 with a minimum grade of C or Prerequisite BUL 3310 with a minimum grade of C or Prerequisite BUL 3320 with a minimum grade of C)
This course is designed to provide students with a basic overview of real property law with transactional considerations. Topics covered include: the basic elements of real property law, the different methods used to record and describe property, the methods used to transfer title, the rights associated with real estate ownership, the elements of real estate contracts, the basic elements of landlord/tenant law, deeds, mortgages, restrictions on land use, title insurance and title examinations, the closing process, and tax implications. Emphasis will be placed on the practical application of the skills necessary to perform drafting and review of related documents.

PLA 4806 Family Law (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Prerequisite PLA 2114 with a minimum grade of C
This course is a study of cases, Florida Statutes, and legal principles relevant to the formation, regulation and dissolution of the family unit, and to legal obligations which arise within the family relationship. The course considers: nuptial agreements, marriage, annulment, divorce, division of property, maintenance, custody, visitation, child support, tax law, adoption, paternity, and ethical issues. Emphasis is placed on developing practical skills such as the creation of pleadings, agreements, discovery, and trial preparation.

PLA 4827 Sports and Entertainment Law (3.00 Credits)
(Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Permission of the Program) and (Prerequisite BUL 2241 with a minimum grade of C or Prerequisite BUL 2131 with a minimum grade of C or Prerequisite BUL 3310 with a minimum grade of C or Prerequisite BUL 3320 with a minimum grade of C)
This course introduces the student to basic concepts and regulations within the sports and entertainment industry with a focus on contract, constitutional, and intellectual property law. Topics covered in the area of sports law include the history of sports agents, torts and crimes in sports, Title IX and women's issues, contract law regarding athletes, financial and compensation considerations, American with Disabilities Act in sports, athlete/celebrity status, and intellectual property issues. Topics covered in the area of entertainment law include the legal structure of film, television, music, live stage, and publishing industries, contract law regarding entertainers, credits and compensation, constitutional considerations, and intellectual property law issues.

PLA 4830 Comparative Legal Systems (3.00 Credits)
Pre- or Co-requisite PLA 2114 and Pre- or Co-requisite PLA 3885 and Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course provides an examination of various legal traditions and systems of the world. International law and transboundary issues will be discussed. Substantive and procedural laws will be examined. Availability of resources will be emphasized.

PLA 4843 Immigration Law (3.00 Credits)
(Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Paralegal Studies (Certificate with Financial Aid Eligibility) (LEGAL-CT)) and Pre- or Co-requisite PLA 2114
This course is intended to provide an overview of U.S. immigration laws. Special emphasis is placed on the practical aspects of immigration law, an examination of the substantive and procedural aspects of this type of practice, and an analysis of the changes in our immigration laws and policies post September 11, 2001. In addition, it will provide the student fundamental tools in this area of the law concerning interviewing a client as well as forms and documents requirements.

PLA 4876 Animal Law (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Prerequisite PLA 2114 with a minimum grade of C
This course is designed to review a wide range of legal policies as they apply to the emerging field of animal law. Considerations include contract applications, tort and criminal law, state and federal regulation of all types of animals, and discussing of rights and responsibilities pertaining to animals.

PLA 4941 Paralegal Studies Capstone (3.00 Credits)
Prerequisite Permission of Program and Prerequisite Senior Status
This is the capstone course for the Paralegal Studies program. It will provide the opportunity for the student to demonstrate that he/she has learned both the theoretical material and practical skills from the program and can apply them in the real world. It must be taken during the student's last semester at the college. This course focuses on giving the student the opportunity to develop and present a plan to solve a problem dealing with paralegal issues today. The student will choose a topic for a project consistent with the goals of this course and submit it to the course instructor for approval.

PLA 4944 Paralegal Certificate Capstone (3.00 Credits)
(Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Paralegal Studies (Certificate with Financial Aid Eligibility) (LEGAL-CT)) and Prerequisite Permission of the Program
This is the capstone course for the Paralegal Studies Certificate Program. It will provide the opportunity for the student to demonstrate that he/she has learned both the theoretical material and practical skills from the certificate courses and can sufficiently apply them to the Certified Legal Assisting examination. It must be taken during the student's last session of the certificate program. A substantive review of the CLA examination topics will be covered along with practice examinations. The student will also develop a professional portfolio which is representative of the work product and assignments completed throughout the certificate courses.

PLA 4949 Paralegal Studies Co-op Work Experience (3.00 Credits)
Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) and Permission of the Program
This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments.Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/)).

## POS-Political Science

POS 2041 American National Government (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or (Prerequisite EAP 1695 or appropriate score on the college placement test)

In this course, students will investigate how the national government is structured and how the American constitutional republic operates. It covers the philosophical and historical foundations of American government, including but not limited to the declaration of independence, the United States Constitution and all its amendments, and the federalist papers. The course examines the branches of government and the government's laws, policies, and programs. It also examines the ways in which citizens participate in their government and ways their government responds to citizens. ***State Core Course Description (State Rule 6A-14.0303).*** This course partially satisfies the writing requirements outlined in the general education requirements. **This course satisfies the Social and Behavioral Sciences General Education Core.** Credit is only given for one of the following: POS 2041 or POS 2041H or IDS 2130H.

POS 2041H Honors American National Government (3.00 Credits)
Prerequisite appropriate score on the college placement test or Prerequisite Permission of the Program

In this course, students will investigate how the national government is structured and how the American constitutional republic operates. It covers the philosophical and historical foundations of American government, including but not limited to the declaration of independence, the United States constitution and all its amendments, and the federalist papers. The course examines the branches of government and the government's laws, policies, and programs. It also examines the ways in which citizens participate in their government and ways their government responds to citizens. ***State Core Course Description (State Rule 6A-14.0303).*** This course partially satisfies the writing requirements outlined in the general education requirements. **This course satisfies the Social and Behavioral Sciences General Education Core.** Credit is only given for one of the following: POS 2041 or POS 2041H or IDS 2130H.

POS 2112 State & Local Government (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or (Prerequisite EAP 1695 and Prerequisite appropriate score on the SPC placement test.)
This course is an examination of the institutions and processes of Federalism, political parties, state governments, state protected civil liberties, counties, municipalities, special districts, and regional compacts. Examples and illustrations of processes and procedures will be drawn mainly upon the Florida government.This course partially satisfies the writing requirements outlined in the General Education Requirements.

POS 2949 Co-op Work Experience (1.0-3.00 Credits)
Prerequisite Permission of the Program

This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. Variable credits are available, one to three per course. The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments. Co-op courses may be repeated but total credits shall not exceed twelve. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/). To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

POS 3235 Mass Media & Public Policy (3.00 Credits)
Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS)
This course provides an overview of the complex relationships between government, the media, and the public with a focus on the impact of the various political aspects involved. Additional emphasis will be placed on how the media influences governmental institutions, policy action/functions and in turn, how the government shapes the way the media disseminates information. Students will learn how to describe social media trends and how they differ from traditional media outlets.

POS 3272 American Civic Life (3.00 Credits)
Prerequisite POS 2041 with a minimum grade of C
This course introduces the student to the principles of civic engagement and commitment to community service. The focus will be on civic leadership and communication from an internal and external perspective. These will be examined on an international, national, state and local level. This course will combine theoretical and practical applications addressing governments, businesses and citizen groups in the development of civic engagement, leadership, sustainability, social change, and the interdependence of social issues, public policy and international impact. Case studies and class exercises are employed to help students develop skills in multi-party negotiations, conflict resolution, resource allocation and decision making. Emphasis will be placed on preparing students for a life dedicated to public service, policy leadership and civic engagement which affect the usual and customary operations of a business or government. Course content is guided by an understanding that the relationship between civic engagement, leadership and public communication in an era of globalization and instant communication is critical to facilitating, mitigating and dealing with the challenges we face in the 21st. century.

## PPE-Personality

PPE 2001 Personality Development (3.00 Credits)
Prerequisite PSY 1012 or Prerequisite PSY 1012H
This course deals with the theories and principles through which individual differences in typical modes of acting, feeling and thinking are acquired. Extensive attention is given to an understanding of the various factors influencing effective as well as ineffective patterns of adjustment, with consideration of the degree to which the individual can, through his/her knowledge and efforts, have an influence on his/her own personality patterns. Social diversity as it relates to the development of personality patterns is incorporated. This course has a substantial writing requirement. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

## PRO-Prosthetics/Orthotics

PRO 1002 Introduction to Orthotics & Prosthetics (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This course focuses on the development of knowledge necessary to understand the lifelong treatment and rehabilitation process as it relates to the delivery of orthotic and prosthetic care. Students will develop a solid foundation of the principles and practice of orthotics and prosthetics.

PRO 1010C Introduction to Basic Fabrication Hand Skills (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the development of psychomotor skills for the application of various orthotic and prosthetic fabrications. Students will develop a solid foundation of knowledge regarding the machinery, tools, and techniques necessary to begin safe fabrication of orthotic and prosthetic devices at the introductory level.

PRO 1131C Material Science (3.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the development of knowledge surrounding the various materials used in orthotics and prosthetics. Students will develop a solid foundation of knowledge regarding textiles and animal hides, polymers, metals, composites, adhesives, solvents, and other materials. Instruction covering each materials' properties, manipulation, safety, and real world application is included.

PRO 1312C Ankle Foot Orthoses Fabrication (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the fabrication of orthotic devices of the foot and ankle. Students will develop the entry-level knowledge and skills necessary to formulate appropriate orthotic fabrication plans, implement the fabrication, and maintain and adjust those devices. Instruction covering a basic overview of the anatomy, biomechanics, and terminology associated with the ankle and foot will also be included.

PRO 1314C Knee Ankle Foot Orthoses (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the fabrication of orthotic devices extending above the ankle, to include the knee and hip. Students will develop the entry-level knowledge and skills necessary to formulate appropriate orthotic fabrication plans, implement the fabrication, and maintain and adjust those devices. Instruction covering a basic overview of anatomy, biomechanics, and terminology associated with the knee and hip will also be included.

PRO 1315C Leather Work for the Lower Limb Orthosis (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the development of skills unique to fabricating orthotic/prosthetic components with leather. Students will develop a solid foundation of knowledge regarding the machinery, tools, and techniques necessary to successfully work with leather.

PRO 1320C Thermoplastic Orthosis Fabrication (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on advanced thermoplastic fabrication procedures for orthotic devices. Students will build upon concepts from basic thermoplastic fabrication designs to more complex, multi-stage thermoplastic fabrication techniques. Instruction covering thermoplastic materials, properties, and various fabrication methods will be included.

PRO 1351C Spinal Orthosis Fabrication (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the fabrication of orthoses of the spine. Student will develop the entry-level knowledge and skills necessary to formulate appropriate orthotic fabrication plans, implement the fabrication, and maintain and adjust those devices. Instruction covering a basic overview of the anatomy, biomechanics, and terminology associated with the spine and trunk will also be included.

PRO 1372C Upper Limb Orthosis Fabrication (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the fabrication of orthoses of the upper limb. Students will develop the entry-level knowledge and skills necessary to formulate appropriate orthotic fabrication plans, implement the fabrication, and maintain and adjust those devices. Instruction covering a basic overview of the anatomy, biomechanics, and terminology associated with the upper limb will also be included.

PRO 1392C Prosthetic Finishing Procedures (1.0-2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the procedures necessary to finish definitive prosthetic devices both for function and cosmetics. Students will develop the entry-level knowledge and skills necessary to complete the final steps of fabricating definitive prostheses. Instruction covering a basic overview of surface anatomy and the materials utilized will also be included.

PRO 2011C Advanced Procedures (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the fabrication of complex designs and procedures related to prosthetics. It builds on current prosthetic and orthotic design principles by introducing additional available technologies and trends. Students will develop the entry-level knowledge and exposure necessary to understand the fabrication of orthotic and prosthetic devices at a more complicated level.

PRO 2302C Transtibial Socket Inserts, Alignment and Duplication (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the fabrication of Transtibial socket inserts, their alignment and duplication. Students will develop the entry-level knowledge and skills necessary to fabricate and maintain and adjust those devices. Instruction covering a basic overview of the materials, anatomy, biomechanics, and terminology associated with below knee amputations and their devices will also be included.

PRO 2333C Transfemoral Socket Fabrication (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the fabrication of transfemoral prostheses, their alignment and duplication. Students will develop the entry-level knowledge and skills necessary to fabricate and maintain and adjust those devices. Instruction covering a basic overview of the materials, anatomy, biomechanics, and terminology associated with amputation at the knee disarticulation level and above and their devices will also be included.

PRO 2362C Transradial Prosthesis Fabrication (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the fabrication of partial hand and transradial prostheses. Students will develop the entry-level knowledge and skills necessary to fabricate, maintain and adjust those devices as well as their harnessing systems. Instruction covering a basic overview of the materials, anatomy, biomechanics, and terminology associated with amputations below the elbow and their devices will also be included.

PRO 2363C Transhumeral Prosthesis Fabrication (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This combined lecture and laboratory course focuses on the fabrication of prostheses of amputation levels at and above the elbow. Students will develop the entry-level knowledge and skills necessary to fabricate, maintain and adjust those devices as well as their harnessing systems. Instruction covering a basic overview of the materials, anatomy, biomechanics, and terminology associated with amputations at and above the elbow and their devices will also be included.

PRO 2804C Technician Practicum (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This course is designed as a technical rotation in which students observe, assist, and practice orthotic and prosthetic fabrication in an environment that prepares them for their career. Students apply traditional and emerging topics taught in previous required courses at an orthotic and prosthetic facility to practice skills under close supervision. Students are required to document fabrication projects they are exposed to during the rotation time period.

PRO 2860C Board Exam Review (2.00 Credits)
Admission to Orthotics and Prosthetics Technology (Associate in Science) (ORTHO-AS)
This course is designed to assess the student's comprehensive knowledge of orthotic and prosthetic fabrication. Prior course work is synthesized through cumulating, comprehensive written and practical examinations. Students in this course are required to successfully complete and pass all culminating exam materials.

## PSC-Physical Sciences

PSC 1191L Laboratory in the Physical Sciences (1.00 Credits)
No Requisites Required
Laboratory course that will cover a combination of Physical Sciences including labs in Astronomy, Chemistry, Earth Science, Geology, Oceanography, and Physics.

## PSY-Psychology

PSY 1012 General Psychology (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite an appropriate score on the SPC Placement Test

In this course, students will gain an introduction to the scientific study of human behavior and mental processes. Topics may be drawn from historical and current perspectives in psychology. ***State Core Course Description (State Rule 6A-14.0303)***. This course partially satisfies the writing requirements outlined in the General Education Requirements. **This course satisfies the Social and Behavioral Sciences General Education Core.** Credit is not given for both PSY 1012 and PSY 1012H or IDS 1610.

PSY 1012H Honors General Psychology (3.00 Credits)
Appropriate score on the college placement test or Permission of the Program

This course is an advance-level introduction to psychology. In this course, students will gain an introduction to the scientific study of human behavior and mental processes. Topics may be drawn from historical and current perspectives in psychology. ***State Core Course Description (State Rule 6A-14.0303).*** Credit is not given for both PSY 1012 and PSY 1012H. **This course satisfies the Social and Behavioral Sciences General Education Core.**

PSY 2949 Co-op Work Experience (1.0-3.00 Credits)
Prerequisite Permission of the Program

This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded based on documented learning acquired through hands-on experiences in an actual work setting. Variable credits are available, one to three per course. The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments. Co-op courses may be repeated but total credits shall not exceed twelve.

## PUP-Public Policy

PUP 3002 Introduction to Public Policy and Administration (3.00 Credits)
Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course will provide a basic foundation in the conceptual frameworks, research perspectives and practical considerations of policy origination, interpretation/implementation and organizational behavior management within public organizations. The emphasis will be on critical thinking and a problem solving approach to improving organizational performance. Course content is guided by the practical aspects of theory, research, best practices, and the past and current real world experience of managers.

PUP 3033 Policy Leadership (3.00 Credits)
(Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)) and Prerequisite PUP 3002 with a minimum grade of C and Prerequisite PUP 3040 with a minimum grade of C
This course introduces students to the relationship between leadership and policy and the organizational dynamics that influence the implementation of public policy. Students will experience all phases of developing policy, from identifying stakeholders and their competing perspectives, to determining factors that impact the sustainability of public policy. Emphasis will be placed on the varying leadership styles used to work with diverse groups and in one-on-one interactions for the purpose on influencing policy development, analysis, decision making, implementation, and improvement.

PUP 3040 State and Local Government and Public Policy (3.00 Credits)
(Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)) and Prerequisite PUP 3002 with a minimum grade of C
This course will provide a basic foundation in public policy as it relates to state and local governmental institutions. Students will be introduced to conceptual frameworks, research perspectives, and practical and political considerations. The emphasis will be on critical thinking, "the art of negotiation", diplomacy, problem solving and decision making using current real world applications.

PUP 3043 Evaluating Public Policy (Research Methods I) (3.00 Credits)
(Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)) and Pre- or Co-requisite PUP 3002 with a minimum grade of C
This course will provide an introduction to research methods used in public policy and administration. The student will be introduced to several concepts including initiating and organizing a research study, appropriate study designs, measurement of variables, sampling techniques, use of surveys and protection of human subjects and other ethical issues.

PUP 3046 Policy Data Analysis (Research Methods II) (3.00 Credits)
(Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)) and Prerequisite PUP 3043 with a minimum grade of C
This course will provide an introduction to statistical research methods used in public policy and administration. The student will be introduced to strategies for data analysis including correlation, simple linear regression, hypothesis testing, use of indices and effective communication of research findings in public policy and administration.

PUP 3052 Issues in International Policy (3.00 Credits)
Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course provides students with an overview of contemporary international issues and the knowledge necessary to engage in a detailed examination and constructive discussion of these issues. Focus is placed on three broad categories: conflict, security and terrorism; globalization and the international economy; and, international human rights and justice. Students will craft solutions to these issues and present them in a peer group setting. Students will learn about important geographical and geostrategic factors contributing to the menu of political crises examined. The class is debate-driven, meaning issues are examined based on differing viewpoints and the merits of each. Students will engage in a substantive case study of international diplomacy through the use of a Model UN Module, where students will represent nations, draft written submissions, and engage in debate about a current issue in the international arena.

PUP 3054 Policy and Ethics (3.00 Credits)
Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course will introduce students to policy and ethics as a process of reasonable, rational and responsible decision making in the workplace. The student will analyze policy, political and ethical issues that managers and public organizations face in today's environment.

PUP 3055 Public Policy and Negotiation (3.00 Credits)
Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)
This course provides a basic foundation into the principles of dispute resolution and consensus-building on public disputes, policy development and program implementation. Emphasis will be placed on combining theoretical and practical applications addressing government, business and citizen groups in managing public disputes and policy making development. Federal, state and local case studies and exercises are employed to help students develop skills in multi-party conflict analysis, assessment for dispute resolution intervention, and negotiation and facilitation processes. Course content is guided by an understanding that social and economic growth has a direct impact on the timing, tolerance, politics and power involved in the dynamics of conflict resolution and consensus building.

PUP 3823 Emergency and Crisis Communications (3.00 Credits)
(Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) or Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS)) and Prerequisite POS 3235 with a minimum grade of C
This course introduces the student to the principles of crisis communications from both an internal and external perspective on international, national, state and local levels. This course will combine theoretical and practical applications addressing governments, businesses and citizen groups in the development of communication techniques and the basic principles of crisis management. Case studies and class exercises are employed to help students develop skills in multi-party negotiations, conflict resolution, crisis and resource allocation and decision making. Emphasis will be placed on introducing students on how to prepare senior leadership to respond to the dynamic nature of media perception and public opinion during crisis situations which affect the usual and customary operations of a business or government.

PUP 4941 Public Policy Capstone (3.00 Credits)
(Admission to Paralegal Studies (Bachelor of Applied Science) (LEGAL-BAS) or Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS)) and (Prerequisite Completion of all core courses in the PPA-BS program or LEGAL-BAS program or Prerequisite Permission of the Program)
This is the capstone course for the Public Policy and Administration program and will provide the opportunity for the student to demonstrate that he/she has learned both the theoretical material and practical skills from the program and can apply them in the real world. It must be taken during the student's last semester in the program. This course focuses on giving the student the opportunity to develop and present a policy to address a current issue in public policy and administration. The student will choose a topic for a project consistent with the goals of this program and submit it to the course instructor for approval.

PUP 4949 Public Policy and Administration Co-op Work Experience (3.00 Credits)
Admission to Public Policy and Administration (Bachelor of Science) (PPA-BS) and Prerequisite Permission of the Program

This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. The student must fulfill the requirement of 180 on-the-job hours in addition to written assignments. To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

## QMB-Quantitative Methods in Business

QMB 3200 Quantitative Methods for Business (3.00 Credits)
(Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Analyst Specialist (Advanced Technical Certificate with Financial Aid Eligibility) (ANLST-ATC)) and (Prerequisite STA 2023 with a minimum grade of C or Prerequisite QMB 2100 with a minimum grade of C (course not offered at SPC))

This course builds on introductory statistics topics, using quantitative tools for solving real-world business problems. It provides students with a conceptual understanding of the role that data analysis plays in the decision-making process. Numerical data is analyzed and used to make informed decisions for the firm.

## REA-Reading

REA 0009 HS Reading (0.00 Credits)
No Requisites Required
HS Reading College Success - College Readiness-

REA 0017 Developmental Reading II (0.00 Credits)
Prerequisite REA 0007 or Prerequisite an appropriate score on the college placement test.
This college preparatory reading course improves vocabulary skills, reading comprehension, and study strategies. Three class hours and two lab hours for a total of five hours weekly. (Note: A student cannot enroll in REA 0017 after receiving credit for REA 1105. No credits are awarded for completion of this course.)

REA 0056 Reading Techniques II: My Bridge to Success (0.00 Credits)
Prerequisite REA 0007 with a minimum grade of C or Prerequisite Appropriate score on the SPC placement test or approval of a Communications Department program administrator.
This flexible entry/exit college preparatory course is designed to improve academic vocabulary skills and proficiency in college-level comprehension skills using course modules. Course strategies will include one-on-one instruction, small group instruction, and computer instruction in a lab setting. This course is intended to prepare students for successful completion of college-level courses. No credits are awarded for completion of this course.

REA 1105 Critical Reading and Thinking (3.00 Credits)
Prerequisite REA 0017 or Prerequisite EAP 1695 or Prerequisite appropriate score on the SPC placement test.
This course is designed to develop and enhance literal and critical reading skills and vocabulary. Emphasis is also on critical thinking skills: analysis, interpretation, synthesis, and evaluation. (Note: A student cannot earn credit in REA 1105 after receiving credit for REA 1205.)

## RED-Reading Education

RED 3309 Early and Emergent Literacy K-2 (3.00 Credits)
Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS)

This course is designed to increase preservice teachers' knowledge and application of early and emergent literacy development for children from age 3 to second grade. The course explores evidence-based practices in teaching literacy to young children, including all areas of reading and writing. Preservice teachers complete a minimum of 15 school-based hours actively participating and observing reading in primary educational setting(s).

RED 4043 Reading within the Disciplines 5-12 (3.00 Credits)
Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

This course examines the fundamentals of teaching reading including comprehension, fluency, and vocabulary within various disciplines in the secondary grades. The major emphasis of the course is teaching reading as a process to enhance metacognition and support understanding of more complex texts, including informational and narrative forms. In addition, a major focus area is using informal and formal reading assessment to guide instruction. This course covers Competencies 1 and 2 of the Florida Reading Endorsement.

RED 4342 Foundations of Research Based Practices of Reading Education and Application of Instruction (3.00 Credits)
Permission of the Program or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT)

This course provides a deeper conceptualization of the principles of explicit, systematic, and sequential evidence-based reading research as the foundation of comprehensive literacy instruction for K-12 learners. This course embeds each of the major components of the reading process to assist students in literacy acquisition. Preservice teachers will apply effective, evidence-based instructional interventions based on data. Preservice teachers will identify reading difficulties, including identification of students with characteristics of dyslexia, provide appropriate interventions and conduct effective progress monitoring.

RED 4511 Intermediate Literacy 3-6: Reading, Writing and Thinking (3.00 Credits)
(Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) and Prerequisite EDG 3620 with a minimum grade of C and Prerequisite RED 3309 with a minimum grade of C) or (Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) and Prerequisite EEX 3241 with a minimum grade of C and Prerequisite RED 3309 with a minimum grade of C) or (Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS) and Prerequisite RED 3309 with a minimum grade of C)

In this course, preservice teachers will enhance their understanding of literacy development in children from third through sixth grade. The course explores current theories, methods, and materials relevant to effective literacy instruction. Preservice teachers will learn and apply evidence-based practices for teaching literacy, which includes reading and writing instruction. This course includes a minimum of 20 school-based hours actively participating and observing reading and writing instruction in third through sixth grade educational setting(s).

RED 4519 Diagnosis and Intervention in Reading for Students in K-12 (3.00 Credits)
(Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS)) and (Prerequisite RED 3309 with a minimum grade of C and Prerequisite RED 4511 with a minimum grade of C)

This course focuses on the knowledge and application of qualitative and quantitative reading assessments in the K-12 classroom. Preservice teachers will conduct case studies on students with reading difficulties in order to demonstrate their ability to interpret pre-existing data reports, to select and administer appropriate assessments, and to analyze data to inform reading instruction. By engaging in a systematic problem-solving process, they will identify characteristics of conditions such as dyslexia, provide appropriate interventions and conduct effective progress monitoring. A major emphasis of the course is on diagnosis of reading problems, administration of the assessments, evaluation of results, and planning interventions within a Multi-Tiered System of Support framework.
Lecture, discussion, simulated assessment practice, and a diagnostic case study constitute various course activities. This course includes 20 school-based hours of participation/observation of reading in an educational setting.

RED 4541 Foundations of Reading Assessment (3.00 Credits)
Permission of the Program or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT) or Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

The preservice teacher will select and administer appropriate assessments and analyze data to inform reading instruction and to meet the needs of all K-12 learners. The preservice teacher will engage in a systematic problem-solving process to identify and remediate reading difficulties for all stages of the reading process including pre-emergent, emergent, early, and fluent. The preservice teacher will research and implement effective, evidence-based interventions to improve K-12 student learning.

RED 4654 Foundations and Applications of Differentiated Instruction (3.00 Credits)
Permission of the Program or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT) or Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

This course focuses on issues related to differentiating the process, product, and context of reading instruction. Topics include the requisite knowledge and skills concerning the theory and characteristics of differentiated instruction. Preservice teachers will engage in the systematic problem-solving process to identify characteristics of conditions such as dyslexia, provide appropriate interventions and conduct effective progress monitoring.

RED 4844 Reading Practicum (1.00 Credits)
Permission of the Program or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT) or Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS)

Preservice teachers apply principles of effective reading assessment and instruction in a K-12 classroom setting. The focus of this course is to assess and to instruct individuals who may be experiencing difficulties in reading, including students with disabilities and English Learners (ELs.) Topics include the review of current literacy research in all areas: oral/aural language, phonological awareness, phonics, vocabulary, fluency, and comprehension. Based on data, preservice teachers select, plan, and implement appropriate reading assessments and interventions using a problem-solving approach. Preservice teachers will spend a minimum of twenty (20) school-based hours in a K-12 classroom or a setting pre-approved by the faculty member teaching the course.

RED 4940 Final Reading Internship (1.0-3.00 Credits)
(Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) and Pre- or Co-requisite EDE 4940 with a minimum grade of C) or (Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) and Pre- or Co-requisite EEX 4940 with a minimum grade of C) or (Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS) and Pre- or Co-requisite EEC 4946 with a minimum grade of C)
This course is a culminating practicum to complete the Florida Reading Endorsement. Topics covered in the course include the following: assessing and teaching oral/aural language development, phonological awareness, phonics, fluency, vocabulary, comprehension, and writing. Through systematic data analysis, preservice teachers implement a comprehensive, research-based plan of instruction for their students using a problem-solving approach. Pre-service teachers will work directly with public school K-12 teachers and students in large group, small group, and individual settings to connect literacy theory to classroom practice. (Note: Students will spend a minimum of 5 hours per week for 15 weeks.)

## REE-Real Estate

REE 1040 Real Estate Principles and License Law (4.00 Credits)
No Requisites Required
Successful completion of this course is one of the prerequisites to taking the Florida Salesman's licensing examination. Topics include business brokerage operations, property law, deeds, mortgages, financing, taxes, planning and zoning, appraisal, real estate investment and market analysis, public housing, governmental regulations, securities licensing requirements to sell direct participation programs in real estate, in-depth study of the fundamental principles of Florida real estate license law with emphasis on violations of the license law and penal and procedural aspects of its enforcement, ethical issues, and case studies of selected topics in agency and brokerage operations. Also included will be preparation of real estate contracts and closing statements.

## REL-Religion

REL 1060 Religion and Politics (3.00 Credits)
Prerequisite ENC 0025 or Prerequisite EAP 1695 or Prerequisite satisfactory score on the SPC placement test.
This course examines the relationship between religion and politics, the interaction between personal conviction and public service. It explores the American commitment to the separation of church and state and how this has shaped the role of religion in society. This American model is then contrasted to the way other cultures interpret the place of religion in a contemporary world.

REL 1210 Old Testament Survey (3.00 Credits)
No Requisites Required
This course is designed to give the student an overview of Old Testament religious perspectives as reflected in the geographical, historical, thematic development, and cultural influences of the biblical text. The study will include an examination of the issues of text integrity, content problems, higher criticism, and theological insights.

REL 1240 New Testament Survey (3.00 Credits)
No Requisites Required
This course is an introductory study of the historical, cultural, literary, and religious concepts in the New Testament. Topics include "the synoptic problem," "the historical Jesus," "the social and economic ideas of the Acts," "the relation of Petrine with Pauline concepts of social classes".

REL 2000 Introduction To Religion (3.00 Credits)
No Requisites Required
This course is a study of the phenomena of religious belief and practice in both primitive and advanced cultures. The course focuses on the universal components of a religious worldview which include concepts of the divine and ultimate reality, origins of the natural and social order, the human problem, dealing with evil, patterns of moral action, and ways to achieve salvation or liberation. Major theories of religion and the impact that these theories have had on society are examined. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

REL 2121 Religion in America (3.00 Credits)
No Requisites Required
This course introduces the student to the unique religious nature of American culture. It begins with indigenous religions of the North American continent and then examines the impact of various religious traditions as immigrants came to America. The course highlights the unique aspects of religion in American history, the key leaders, and the major concepts which have made religion a vital part of American life. The cultural, intellectual and political influence of religion is explored with the goal of appreciating the ongoing tensions in society that are inherent in a commitment to free religious expression.

REL 2300 World Religions (3.00 Credits)
Prerequisite Dev Level 2 Writing Met or Prerequisite satisfactory score on the SPC placement test.

This course is an introduction to the ideas and traditions of the major world religions in their historical and contemporary forms. This includes an analysis of sources from the Western canon that includes the Hebrew Bible, Christian New Testament and Qur'an. This course partially satisfies the writing requirements outlined in the General Education and Enhanced World View Requirements. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

REL 2300H Honors World Religions (3.00 Credits)
Appropriate score on the CPT or PERT test or Acceptance into the Honors program or Approval of the Dean

This honors course provides an introduction to the concepts and traditions of the major world religions, examining both their historical contexts and contemporary expressions. Students cultivate critical tools for analyzing the beliefs and ideas inherent in the various traditions. This includes an examination of foundational texts from the Western canon, including the Hebrew Bible, Christian New Testament and Qur'an. This course partially satisfies the writing requirements outlined in the General Education and Enhanced World View Requirements. Study abroud opportunities may apply to this course (http://blog.spcollege.edu/international/study-abroad/).

REL 2955 Study Abroad in Religion (3.00 Credits)
Prerequisite ENC 0025 or Prerequisite EAP 1695 or Prerequisite appropriate score on SPC placement test or Prerequisite permission of the Dean.
This course, exclusively for students in the SPC Study Abroad Programs, is designed to offer topics of special interest in religion to students combined with actual travel and study on-site at one or more SPC Study Abroad program partners. Such course offerings include an examination of the influence and interrelationships of religion and culture by experiencing various expressions of religious tenets including literature, philosophy, music, art, and architecture. Specific content will vary depending on the specific study abroad program. The course includes lectures, discussions, field trips and multiple writing experiences. In addition, the course involves extensive orientation and preparation plus careful monitoring of student work and progress while studying abroad.

## RET-Respiratory Care

RET 1007 Respiratory Pharmacology (3.00 Credits)
Prerequisite Admission to the RESC-AS program.
This course will provide the student with general pharmacology concepts and principles in the management of client care. The knowledge and skills required for safe, effective administration of therapeutic drugs and indications and contraindications associated with drug therapy are an integral part of this course. This course introduces essential and advanced concepts of pharmacology as related to Respiratory Care. Drugs related to both maintenance and emergency care will be emphasized. Anatomy and physiology of body systems as related to drug therapy will be an integral part of this course. Various problematic states related to cardiopulmonary illness with an emphasis on drug therapy will be discussed. Advanced Cardiac Life Support (ACLS) standards of drug practice will be included.

RET 1024 Fundamentals of Respiratory Care (3.00 Credits)
Admission to Respiratory Care (Associate in Science) (RESC-AS) and Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C
This 10 unit course is an orientation to the respiratory care practitioner’s role in basic respiratory therapies. Students will be introduced to cardiopulmonary anatomy, physiology, pathophysiology and the basic diagnosis and treatment modalities of cardiopulmonary diseases. Students will also explore the use of medical devices and the prevention of infection through universal precautions.

RET 1264 Principles of Mechanical Ventilation (3.00 Credits)
Prerequisite RET 1024 with a minimum grade of C and Pre- or Co-requisite RET 1485
This course will include an introduction to mechanical ventilation and an overview of fundamental principles necessary in the management of critically ill patients requiring mechanical ventilation. Advanced ventilatory techniques used in the treatment of critically ill patients will also be covered.

RET 1485 Cardiopulmonary Physiology (3.00 Credits)
Prerequisite RET 1024 with a minimum grade of C
This is a course covering all aspects of normal cardiopulmonary physiology, and the effects of related systems. Topics include respiratory anatomy, mechanics of breathing, arterial blood gases, pulmonary ventilation/perfusion relationships , gas transport mechanisms of blood, neurologic control of ventilation, cardiac and renal function, and respiratory adjustments in health and disease.

RET 1874L Clinical Practice I (2.00 Credits)
Admission to Respiratory Care (Associate in Science) (RESC-AS) and Prerequisite completion of Computer Competency requirement
This is a modular course covering the basic respiratory therapy procedures encountered in the student's first clinical practice. Topics include basic life support, introduction to the clinical affiliate, medical gas therapy and aerosol therapy. Laboratory experience precedes in-hospital care.

RET 1875L Clinical Practice II (2.00 Credits)
Prerequisite RET 1874L with a minimum grade of C
The student will refine those clinical skills introduced in Clinical Practice I. In addition, intermittent positive pressure breathing, chest physiotherapy and sustained maximal inspiratory therapy will be introduced. Laboratory experience precedes in-hospital patient care.

RET 2244 LIfe Support (1.00 Credits)
Prerequisite RET 1007 with a minimum grade of C and Prerequisite current Basic Life Support (BLS) card.
This course is designed to provide instruction regarding algorithms and advanced techniques involved in adult, pediatric and neonatal resuscitation.

RET 2284 Advanced Modalities and Monitoring (2.00 Credits)
Prerequisite RET 1264 with a minimum grade of C
This course shall provide a complete review of the modalities and monitoring techniques employed in the care and evaluation of the critically ill patient. The theory and application of ventilatory devices and techniques will be covered in detail. The course will also focus on the theory and application of invasive and non-invasive monitoring of the critically ill patient.

RET 2414 Diagnostic Procedures and Pulmonary Rehabilitation (3.00 Credits)
Prerequisite RET 1485 with a minimum grade of C
This is a course designed to introduce the student to the diagnostic methods and equipment used to interpret and evaluate the status of patients. Emphasis is on diagnostic techniques used in pulmonary function studies, blood gas analysis, cardiac and pulmonary stress testing, metabolic studies, sleep studies, bronchoscopy and pulmonary rehabilitation. The student will recognize alterations from testing data, be able to interpret these alterations with respect to possible diagnosis, degrees of impairment and recommend a treatment regime. The therapeutic techniques and procedures involved in the home and rehabilitative care of the pulmonary patient will follow the presentation of diagnostic procedures. Clinical experience will occur during Clinical Practice IV.

RET 2450 Cardiopulmonary Assessment (2.00 Credits)
Prerequisite RET 1485 with a minimum grade of C
The integral components of data collection, assessment, and evaluation necessary for effective treatment of patients with cardiopulmonary disorders will be covered in detail in this course. Patient interview, physical examination, laboratory data review, and chest radiograph interpretation will be emphasized.

RET 2484 Pulmonary Disease (2.00 Credits)
Prerequisite RET 1485 with a minimum grade of C and Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C
This course is an introduction to pulmonary diseases. Topics include respiratory infections, COPD, the pneumonconiosis, fibrotic disease, malignant diseases, pulmonary involvement in systemic disease and respiratory failure. Teaching methodology will include lecture, examinations, and class discussion.

RET 2714 Neonatal-Pediatric Respiratory Care (2.00 Credits)
Prerequisite RET 2484 with a minimum grade of C
This course will cover development and physiology of the fetal and neonatal lung including perinatal circulation, pulmonary function in infants, and developmental physiology of the lung. Neonatal pulmonary disorders will be overviewed and the treatment of pediatric patients with an emphasis on respiratory care techniques will be explored.

RET 2876L Clinical Practice III (4.00 Credits)
Prerequisite RET 1875L with a minimum grade of C
This is a modular course reviewing the principles and practice of basic respiratory care techniques. Airway care and critical respiratory care will be introduced. In addition, X-ray and EKG services will be surveyed. Laboratory practice precedes actual patient care. This course may also be taken to fulfill transitional program requirements.

RET 2877L Clinical Practice IV (4.00 Credits)
Prerequisite RET 2876L with a minimum grade of C
The student will continue to practice critical respiratory care. Laboratory as well as clinical introductions to cardiopulmonary testing will be included with an emphasis on pulmonary function testing and blood gases. In addition, students will rotate through surgery and the recovery room. Laboratory experience precedes in-hospital practice.

RET 2878L Clinical Practice V (4.00 Credits)
Prerequisite RET 2877L with a minimum grade of C
This course will continue to refine those respiratory care techniques applicable to the critically ill patient with an emphasis on prolonged mechanical ventilation. A laboratory review of the most commonly used ventilators with an emphasis on practical applications will occur. Pediatric and neonatal respiratory care rotations will be included with an emphasis on hands-on clinical practice. Refinement of pulmonary function testing and blood gases skills will be continued.

RET 2879L Clinical Practice VI (4.00 Credits)
Prerequisite RET 2878L with a minimum grade of C
This is the last clinical practice course with completion leading to graduation from the Respiratory Care Program. It will include pediatric and neonatal respiratory care, home respiratory care, as well as a section for review of all phases previously covered. A "C" or better must be achieved on the Clinical Practice VI Comprehensive Written Program Examination in order to complete the course of study and obtain the award of the Associate in Science in Respiratory Care.

RET 2935 Medical-Surgery Aspects of Respiratory Care (2.00 Credits)
Prerequisite RET 2484 with a minimum grade of C
The general principles of medicine and surgery as they apply to respiratory care will be presented in a series of individualized learning packages and supplemented by guest physician lectures. In addition, other topics pertinent to respiratory care will be presented including special procedures, new concepts and treatment modalities, diagnostic tests, and conditions causing impairment to the pulmonary system not covered elsewhere in the curriculum.

RET 3050 Evidence Based Medicine in Respiratory Care (3.00 Credits)
(Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) and Respiratory Care Subplan and Prerequisite HSA 3702 with a minimum grade of C and (Prerequisite HSA 3104 with a minimum grade of C or Prerequisite HSA 4184 with a minimum grade of C) ) or Permission of the Program Respiratory Care or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS)
This course focuses on statistical analyses, peer reviewed research databases, understanding systematic and meta-analysis reviews, and evidence based research in the current respiratory care literature, evidence based medicine and integrating evidence based research into practice as a respiratory therapist and health services administrator will be emphasized.

RET 4285 Advanced Cardiopulmonary Medicine (4.00 Credits)
(Admission to: HSA-BAS, Bachelor of Applied Science, Respiratory Care subplan and (Prerequisite HSA 3104 with a minimum grade of C or Prerequisite HSA 4184 with a minimum grade of C) ) or Permission of the Program Respiratory Care or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS)
This course focuses on the theories, concepts and principles of management of the cardiopulmonary compromised patient. Current trends in critical care medicine will be examined.

RET 4494 Advanced Cardiopulmonary Pathophysiology (4.00 Credits)
(Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) and Respiratory Care Subplan and (Prerequisite HSA 3104 with a minimum grade of C or Prerequisite HSA 4184 with a minimum grade of C) ) or Permission of the Program Respiratory Care or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS)
This course explores a broad range of abnormalities in the physiologic functioning of the human cardiopulmonary system. Additional topics include the etiology, pathogenesis, and clinical manifestations of related systems to include the digestive, renal, nervous and endocrine systems. Course content prepares the credentialed Respiratory Therapist to distinguish between health and non-health of related systems

RET 4524 Patient Education & Disease Management (3.00 Credits)
(Successful completion of an AS in Respiratory Care from a regionally accredited institution and Current and valid Registered Respiratory Therapist (RRT) credential) or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS)
This course is an introduction to the evolving role of respiratory therapists in health care with a focus in the area of patient education for those with respiratory disease. Students will discuss how to provide educational methodologies involving disease self-management for acute and chronic cardiopulmonary illness. Topics will include pulmonary disease education for asthma, chronic obstructive pulmonary disease (COPD), cystic fibrosis, interstitial lung disease, lung cancer, and pulmonary hypertension.

RET 4715 Advanced Neonatal and Pediatric Respiratory Care (4.00 Credits)
(Admission to Health Services Administration (Bachelor of Applied Science) (HSA-BAS) and Respiratory Care Subplan and (Prerequisite HSA 3104 with a minimum grade of C or Prerequisite HSA 4184 with a minimum grade of C) ) or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS) or Permision of the Respiratory Care Program
This comprehensive course focuses on advancing the knowledge of the respiratory therapy student from basic disease knowledge and treatment to innovative and novel modalities in the treatment of critically ill neonatal and pediatric respiratory patients.

RET 4912 Respiratory Care Capstone (4.00 Credits)
(Associate of Science degree in Respiratory Care from a regionally accredited institution and Current and valid Registered Respiratory Therapy (RRT) credential) or Admission to Cardiopulmonary Science (Bachelor of Science) (CARD-BS)
This capstone course, taken in the final semester of the program, is designed to provide students an opportunity to further develop and assess their knowledge of advanced adult critical care or advanced neonatal and pediatric respiratory care. Students will prepare to take the National Board of Respiratory Care (NBRC) Neonatal Pediatric Specialty exam or the Adult Critical Care Specialist exam. Students will work with a mentor to explore the professional roles available to them and to evaluate the required skills needed for those roles.

## RMI-Risk Management and Insurance

RMI 1201 Principles of Property and Liability Insurance (3.00 Credits)
No Requisites Required
This is an introductory course that provides an overview that covers basic property and liability insurance principles such as risk management, regulation, performance, marketing, underwriting, claims, contracts, and loss exposures.

RMI 2113 Personal Insurance (3.00 Credits)
No Requisites Required
This is the second of three courses in the Insurance Services AS program. The intent of the course is to provide an overview of personal lines insurance, including an introduction to fundamental automobile, homeowners, life, health and disability concepts, practices, and current market trends. It is strongly recommended that students complete RMI 1201 prior to taking RMI 2113.

RMI 2213 Commercial Insurance (3.00 Credits)
Prerequisite RMI 1201 with a minimum grade of C
This is the third of three courses in the AS, Insurance Services program. The intent of this course is to provide an overview of commercial lines insurance, including an introduction to fundamental property, liability, automobile, crime business income, workers compensation practices, and current market trends. It is strongly recommended that students complete RM 2113 prior to this course.

## RTE-Radiologic Technology

RTE 1000 Orientation to Radiography (3.00 Credits)
Admission to Radiography (Associate in Science) (RAD-AS)
This course provides an orientation to the profession of radiography. Topics include the history and organization of the profession, body mechanics, emergency situations, infection control, aseptic techniques, evaluating patient physical needs, patient education, and venipuncture in radiography. Patient care in radiography will also be included.

RTE 1418 Principles of Imaging I (2.00 Credits)
Prerequisite MAC 1105 with a minimum grade of C and Pre- or Co-requisite RTE 1418L with a minimum grade of C
The objective of this course is to provide an introduction to basic principles of radiographic exposure and processing. Topics include receptor exposure, contrast, spatial resolution, distortion, latent image formation and processing.

RTE 1418L Principles of Imaging I Lab (1.00 Credits)
Prerequisite MAC 1105 and Pre- or Co-requisite RTE 1418 with a minimum grade of C
This course is designed to provide the student an opportunity to apply radiographic exposure principles in the energized laboratory. Topics include radiographic density, contrast, definition, distortion, and computed radiography (CR) processing. Two laboratory hours weekly.

RTE 1458 Principles of Imaging II (3.00 Credits)
Prerequisite RTE 1418 with a minimum grade of C and Pre- or Co-requisite RTE 1473L with a minimum grade of C
The objective of this course is to provide advanced, comprehensive instruction and discussion in principles of radiographic exposure. Topics include detailed instruction in the control of exposure and quality using kilovoltage peak (kVp), milliampereseconds (mAs), Source Image Distance (SID), geometric factors, beam restrictors, grids, filters, properties of x-ray tubes, and fluoroscopy. Tube rating charts, technique charts and selected topics in quality assurance are included.

RTE 1473L Radiographic Quality Assurance Lab (1.00 Credits)
Prerequisite RTE 1418 with a minimum grade of C and Pre- or Co-requisite RTE 1458
This course is a laboratory course providing the student an opportunity to apply radiographic principles and accessories in the energized laboratory. Topics include receptor exposure, contrast, spatial resolution, distortion, radiographic grids, filtration, compensating filters, CR processing, beam restriction and quality control.

RTE 1503C Radiographic Procedures I (3.00 Credits)
Admission to Radiography (Associate in Science) (RAD-AS)
This course is a study of radiographic anatomy, physiology, and positioning for radiologic examinations of the chest, abdomen, pelvis, bony thorax, spine and extremities.

RTE 1503L Radiographic Procedures I Lab (1.00 Credits)
Pre- or Co-requisite RTE 1503C
This course is a laboratory study of basic anatomy and positioning of the chest, abdomen, pelvis, bony thorax, spine and extremities for radiographic procedures.

RTE 1513C Radiographic Procedures II (2.00 Credits)
Prerequisite RTE 1503C with a minimum grade of C
This course is a study of radiographic anatomy, physiology, and positioning of radiologic examinations of the skull and facial bones. Procedures requiring the use of contrast materials within the digestive system, and urinary system, and other special studies as well as the pharmacology of contrast agents will also be studied.

RTE 1513L Radiographic Procedures II Lab (1.00 Credits)
Prerequisite RTE 1503C with a minimum grade of C and Prerequisite RTE 1503L with a minimum grade of C and Pre- or Co-requisite RTE 1513C
This is a laboratory study of basic radiographic anatomy. The course includes the positioning of the urinary system, digestive system, breasts and cranium.

RTE 1804L Radiographic Clinical Education I (3.00 Credits)
Prerequisite RTE 1000 with a minimum grade of C and Prerequisite RTE 1503C with a minimum grade of C and Prerequisite RTE 1503L with a minimum grade of C and Prerequisite RTE 1418 with a minimum grade of C
This is an introductory clinical course meeting at local hospitals to give the student an opportunity to apply theoretical concepts taught in classroom courses. Topics include basic positioning of the chest, abdomen, extremities and Gastrointestinal Series (GI )contrast examinations. Basic patient care procedures, radiation protection practices and radiologic exposure and processing principles are introduced.

RTE 1814L Radiographic Clinical Education II (5.00 Credits)
Prerequisite RTE 1804L with a minimum grade of C and Prerequisite RTE 1513L with a minimum grade of C and Prerequisite RTE 1513C with a minimum grade of C
This course is a continuation of Radiographic Clinical Education I. Topics include positioning of the urinary tract, spine and basic skull exams. Intermediate-level patient care procedures, radiation protection practices, radiologic exposure principles and the use of radiographic accessories are introduced.

RTE 2385 Radiation Biology (2.00 Credits)
Admission to Radiography (Associate in Science) (RAD-AS)
The objective of this course is to provide the student with fundamental principles of radiobiology. Topics include early and late effects of radiation exposure, basic interactions of ionizing radiation with biological systems, factors modifying the body's response to radiation, principles of radiation protection and radiation monitoring.

RTE 2563 Advanced Medical Imaging (3.00 Credits)
Prerequisite RTE 1513C with a minimum grade of C
This course is the study of sectional anatomy, special radiographic procedures, advanced radiologic modalities, registry review and employability skills. Topics specifically addressed include invasive and noninvasive specialized radiographic studies, Computed Tomography (CT), Magnetic Resonance Imaging (MR) and Cardiovascular procedures (CV) and Mammography.

RTE 2571L Computed Tomography Clinical Education (2.00 Credits)
Permission of the Program Proof of certification through the ARRT and licensure in Radiography, Nuclear Medicine or Radiation Therapy.
This course is offered to Radiographers currently registered and in good standing with the American Registry of Radiologic Technologists (ARRT). This computer assisted tomography clinical course meets at local hospitals and out-patient facilities to give the student an opportunity to apply theoretical concepts to clinical situations. Topics include patient care, imaging procedures, physics and instrumentation. Approximately eight clinical laboratory hours weekly.

RTE 2576L Magnetic Resonance Imaging Clinical Education (2.00 Credits)
Permission of the Program Proof of certification through the ARRT and licensure in Radiography, Nuclear Medicine or Radiation Therapy.
This course is offered to Radiographers, Nuclear Medicine Technologists and Radiation Therapists currently registered and in good standing with the American Registry of Radiologic Technologists (ARRT). This is a Magnetic Resonance Imaging clinical course meeting at local hospitals and out-patient facilities to give the student an opportunity to apply theoretical concepts taught in the didactic portion of the program to clinical situations. Topics include patient care, MRI safety, imaging procedures, data acquisition and processing and physical principles of image formation. Eight hours of clinical laboratory instruction weekly.

RTE 2582L Cardiovascular-Interventional Clinical Education (2.00 Credits)
Permission of the Program Proof of certification through the ARRT and licensure in Radiography, Nuclear Medicine or Radiation Therapy.
This course is offered to Radiographers currently registered and in good standing with the American Registry of Radiologic Technologists (ARRT). This cardiovascular-interventional clinical education course meets at local hospitals to give the student an opportunity to apply theoretical concepts to clinical situations. Topics include patient care and monitoring, general and specific imaging procedures, and equipment instrumentation.

RTE 2584L Basic Mammographic Clinical Education (2.00 Credits)
Permission of the Program Proof of certification through the ARRT and licensure in Radiography, Nuclear Medicine or Radiation Therapy.
This course is offered to Radiographers currently registered and in good standing with the American Registry of Radiologic Technologists (ARRT). This mammographic clinic education course meets at local hospitals and imaging centers to give the student an opportunity to apply theoretical concepts to clinical situations. Topics include patient care and education, imaging procedures, positioning, instrumentation and applied techniques. Approximately eight clinical laboratory hours weekly.

RTE 2782 Radiographic Pathology (2.00 Credits)
Admission to Radiography (Associate in Science) (RAD-AS)
The objective of this course is to introduce the disease processes most frequently encountered in the radiology department. The etiology, pathogenesis, treatment, and resolution of each disease is discussed with an attempt to relate recent advances in these areas. Emphasis is placed on radiologic diagnosis and the relationship of the radiographic appearance of the disease to its anatomic, physiologic, and pathologic characteristics.

RTE 2824L Radiographic Clinical Education III (5.00 Credits)
Prerequisite RTE 1814L with a minimum grade of C and Prerequisite RTE 1458 with a minimum grade of C and Prerequisite RTE 1473L with a minimum grade of C
This course is a continuation of Radiographic Clinical Education II. Topics include advanced skull exams, contrast media exams, special procedures in the radiology department, adaptation of technical factors and positioning for difficult patients, advanced radiation protection procedures, and advanced patient care techniques.

RTE 2834L Radiographic Clinical Education IV (4.00 Credits)
Prerequisite RTE 2824L with a minimum grade of C
This course is a continuation of Radiographic Clinical Education III. Topics include positioning of the traumatized patient, adaptation of technical factors to obtain optimum radiographic image quality, advanced specialized radiologic procedures, mobile radiography and surgical procedures.

RTE 2844L Radiographic Clinical Education V (5.00 Credits)
Prerequisite RTE 2834L with a minimum grade of C
This course is a continuation of Radiographic Clinical Education IV. The objective of this course is to prepare the student for a career as a medical radiographer. All clinical aspects are reviewed and emphasis is placed on radiography of the difficult patient, good radiation protection practices and application of sound patient care procedures in the radiology department.

RTE 2949 Co-op Work Experience (1.00 Credits)
Prerequisite Permission of the Program

A course designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. Variable credits are available, one to three per course. The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments. Co-op courses may be repeated but total credits shall not exceed twelve.

## SCE-Science Education

SCE 3030 Science Matters (2.00 Credits)
No Requisites Required
This course is designed to promote an awareness of how teachers can engage teenage students in learning and make science matter to them. Course topics include readings and discussions pertinent to Next Generation Sunshine State Standards, and/or Common Core State Standards and pedagogy for teaching science. A central theme of the course is the connections between fields of science, and applications to modern life. Class activities will provide opportunity for students to review and explore topics from biology, physical science, astronomy, ecology and earth science. The course addresses specific Next Generation Sunshine State Standards, and/or Common Core State Standards and pedagogy pertinent to the discipline and required for certification, and will serve as a fundamental science content review in preparations for teaching, and for taking Florida Subject area exams, as well as exploring the fundamental concepts of science literacy for all students.

SCE 3420C Physical Science for Middle Grades Teachers (4.00 Credits)
Prerequisite CHM 1025 or Prerequisite appropriate score on the Natural Science placement test
This course is a study of the fundamental concepts of physical science as part of preparation for teaching science in grades 5-9. General topics will include: Newtonian mechanics, force, motion, energy, momentum, magnetism, electricity, light, sound and gravity. Chemistry topics will include the nature of elements, compounds, and mixtures; chemical and physical properties of matter; chemical reactions and nuclear processes. Although knowledge of basic algebra and mathematical skills are required, the course is focused on the conceptual understanding of physical principles rather than on mathematical manipulations. An integrated laboratory component will stress the importance of evidence, observations, experimentation, logic, and argument, and provide students with the knowledge and skills necessary for conducting demonstrations and laboratory investigations in the middle school setting. This course is designed for majors in the Middle School General Science, 5-9 program, and addresses specific Next Generation Sunshine State Standards, and/or Common Core State Standards and pedagogy pertinent to the discipline and required for certification.

SCE 3941 Secondary Science Field Experience (6-8) (1.00 Credits)
Admission to Middle Grades General Science Education (5-9) (Bachelor of Science) (MGSED-BS) or Admission to BSCED-BS: Science Teacher Education, Biology Teacher Education (6-12) or Pre- or Co-requisite SCE 3945
This course is designed for students who will be obtaining science teacher certification. Students will spend 60 school based hours in a middle school science classroom, working with a mentoring teacher. This course addresses specific Next Generation Sunshine State Standards, and/or Common Core State Standards and pedagogy pertinent to the discipline and required for certification.

SCE 3945 Interactive Projects that Promote Learning in Science (3.00 Credits)
Admission to Science Teacher Education Biology Teacher Education (6-12) (Bachelor of Science) (BSCED-BS) or Admission to Middle Grades General Science Education (5-9) (Bachelor of Science) (MGSED-BS) or Pre- or Co-requisite SCE 3941
Topics for this course include; cognitive needs of middle school students, objective based lesson planning, Inquiry science, effective communication, and classroom management. This course is designed to integrate science courswork with practicual experience for students preparing to in a middle school science classroom, and students must be enrolled in the field based co-requisite course SCE 3941. The course addresses specific Next Generation Sunshine State Standards, and/or Common Core State Standards, and pedagogy pertinent to the discipline and required for certification.

SCE 4113 Science Concepts in the Elementary Classroom (3.00 Credits)
Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS)
This is an introductory course designed to prepare individuals to teach general science programs at the elementary grade level. Students will explore fundamental concepts and principles found in the physical and biological sciences with emphasis on chemistry, earth science and biology. Through the lens of history and the nature of science, students will also explore the relationships between science and everyday life.

SCE 4144 Professional Issues in Science Education (3.00 Credits)
Admission to Middle Grades General Science Education (5-9) (Bachelor of Science) (MGSED-BS)
This course tackles the challenge of transforming Florida State Standards into a cohesive plan for instruction in middle school and secondary science classrooms. Students will examine issues related to science education that encompass the history of science curriculum reform, impact of public policy on teaching and assessment, principles of professional conduct and ethical standards, instructional strategies related to high student achievement, and science instruction in the context of the Nature of Science (NOS). Activities in this course will strengthen the student's ability to plan for scaffolding and articulation of content lessons, student activities and assessment. This course addresses specific pedagogy pertinent to science education and required for certification.

SCE 4940 Instructional Methods in Secondary Science & Assessment with Technology Practicum (1.00 Credits)
Admission to Science Teacher Education Biology Teacher Education (6-12) (Bachelor of Science) (BSCED-BS) or Admission to Middle Grades General Science Education (5-9) (Bachelor of Science) (MGSED-BS)
This course is designed for students who will be obtaining teacher certification in science education. Students spend a minimum of 60 school-based hours in science classroom grade 6-12. The course addresses specific Next Generation Sunshine State Standards, and/or Common Core State Standards, and pedagogy pertinent to the discipline and required for certification.

SCE 4942 Internship: Secondary Science Education 6-12 (12.00 Credits)
Prerequisite Successful completion of all Science Teacher Education Biology Teacher Education 6-12 program requirements and Prerequisite appropriate score on the General Knowledge and Professional Education Exam
This course requires a teacher candidate to demonstrate competency on the Florida Educator Accomplished Practices (FEAPs) at the pre-professional level during one semester of full time internship in a 6-12 public or private school setting as approved by the College of Education. Teacher candidates must assume full-day teaching duties for a minimum of six weeks during the fifteen week internship. The internship also includes mandatory on-campus seminars.

SCE 4943 Internship: Middle Grades General Science Education 5-9 (12.00 Credits)
Prerequisite Successful completion of all Middle Grades General Science, 5-9 Education BS program requirements and Prerequisite appropriate score on the General Knowledge and Professional Education Exam

Course deactivated effective Spring 2026 (660).
This course requires a teacher candidate to demonstrate competency on the Florida Educator Accomplished Practices (FEAPs) at the pre-professional level during one semester of full time internship in a 5-9 school setting as approved by the College of Education. Teacher candidates must assume full-day teaching duties for a minimum of six weeks during the fifteen week internship. The internship also includes mandatory on-campus seminars.

## SLS-Student Life Skills-Learning

SLS 1101 The College Experience (3.00 Credits)
No Requisites Required
This course is designed to strengthen skills essential to success in college, with further applications to post-college plans. Included are study and test-taking strategies; effective interpersonal skills; time management techniques; creative and critical thinking skills; college services and resources; educational policies, procedures, regulations and terminology; and library resources, research strategies, and information skills for online, blended, and traditional learning environments. Students testing into one or more college prep courses are required to take SLS 1101.

SLS 1126 Faculty-Peer Mentoring Experience (1.00 Credits)
Pre- or Co-requisite SLS 1101
Mentoring refers to a formalized process whereby a student is positively socialized by his or her mentor(s) into the college experience and the college community. The student will participate in mentoring relationships that will include one or more members of the SPC community. The mentor will assist the student in developing a skillset, a level of awareness, and a network to increase the likelihood of success in college. Students testing into one or more college prep courses are required to take SLS 1101 and SLS 1126.

SLS 1264 Leadership Development Seminar (3.00 Credits)
No Requisites Required
This course focuses on the development of leadership skills. It provides a basic understanding of leadership and group dynamics theory and will assist the student in developing a personal philosophy of leadership and an awareness of the moral and ethical responsibilities of leadership. Topics include decision making, leadership ethics, goal formation, building trust, empowering others, conflict resolution, and managing organizational change. The course will integrate readings and films from classic works of literature, contemporary multi-cultural writing, and experiential learning exercises with current leadership theories and practices.

SLS 1301 Career and Life Planning (1.0-3.00 Credits)
No Requisites Required
This course assists students in identifying aptitudes, interests, and values as related to career decision-making and is individualized to personal lifestyles. Employment and future trends in careers will be explored.

SLS 1501 Study Skills for Academic Success (1.00 Credits)
No Requisites Required
This is a course to develop academic study skills, including strategies for time management, vocabulary building, reading, listening, note-taking, test-taking, memory, library research skills, and coping with test anxiety. It is designed to increase students' confidence and competence in study skills techniques. Recommended for students who wish to improve the skills necessary for academic success.

SLS 1711 Peer Classroom/Laboratory Tutoring and Proctoring (2.0-3.00 Credits)
No Requisites Required
Under the supervision of an instructor, the student (hereafter called "tutor") does peer tutoring/proctoring in individualized classroom or laboratory learning situations. The emphasis is on the one-to-one helping relationship in an academic area in which the peer tutor/proctor has competence.(Note: A maximum of 8 credits can be received for this course. 4 contact hours, 2 credit hours; 6 contact hours, 3 credit hours.)

SLS 2223 Stress Management (1.00 Credits)
No Requisites Required
This course is designed to assist the student in understanding the concept of stress, identifying the causes and effects of stress, and identifying and implementing methods of modifying and coping with stress. Emphasis will be placed on promoting self-awareness of personal stresses and choosing appropriate interventions for the management of stress.

## SOP-Social Psychology

SOP 2002 Social Psychology (3.00 Credits)
(Prerequisite PSY 1012 with a minimum grade of C or Prerequisite PSY 1012H with a minimum grade of C) or Prerequisite SYG 2000 with a minimum grade of C

Social Psychology examines the scientific study of how thoughts, feelings, and behaviors of an individual relate to and are influenced by the presence of other people. Students will study topics such as the self, conformity, aggression, interpersonal attraction, persuasion, social cognition, attitudes, stereotypes, prejudice, and behavior in groups in one's sub-cultures and communities. This course has a substantial writing requirement.

## SPC-Speech Communication

SPC 1017 Introduction to Speech Communication (3.00 Credits)
(Prerequisite ENC 0025 with a minimum grade of C or Prerequisite ENC 0056 with a minimum grade of C or Prerequisite ENC 0027 with a minimum grade of C or Prerequisite EAP 1695 with a minimum grade of C) or Prerequisite satisfactory score on the SPC placement test
This course presents the various components of human communication and the communication process. Topics include perception, critical listening and thinking, verbal and nonverbal communication, intercultural communication, interpersonal communication, small group communication, and gender communication. Students will compose and analyze messages that adapt to different audiences and will construct effective presentations for face-to-face and multi-media environments. This course partially satisfies the writing requirements as outlined in General Education Requirements. Credit is only given for one of the following: SPC 1017 or SPC 1017H. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

SPC 1017H Honors Introduction to Speech Communication (3.00 Credits)
Prerequisite Appropriate score on the SPC placement test or Prerequisite acceptance into the Honors College or Prerequisite approval of program director
This course is designed to provide an understanding of the principles and procedures that promote effective communication. The course will be concerned with the functions that speech communication serves as well as the examination of the various contexts in which communication occurs and the constraining factors that affect communication. Emphasis will be placed on the exploration of the theory and practice in presenting public speeches; determination of communication purpose, situational materials, language usage, and message orientation to designated listeners. This course partially satisfies the writing requirements as outlined in General Education Requirements. Credit is only given for one of the following: IDS 1101H, SPC 1017, or SPC 1017H.

SPC 1065 Speaking for Professionals (3.00 Credits)
(Prerequisite ENC 0025 with a minimum grade of C or Prerequisite EAP 1695 with a minimum grade of C) or Prerequisite satisfactory score on the SPC placement test
This is a practical and applied course designed to meet the needs of the professional community. The course will apply the various components of human communication and communication processes in a professional setting. Topics will include: public speaking, interviewing, leadership skills, conflict management, listening, nonverbal communication, and small group communication. Students will compose and analyze messages that adapt to different audiences and construct effective presentations for face-to-face and multi-media environments. This course partially satisfies the writing requirements as outlined in the General Education Requirements.

SPC 1608 Public Speaking (3.00 Credits)
Prerequisite ENC 0025 or Prerequisite ENC 0056 or Prerequisite ENC 0027 or Prerequisite EAP 1695 or Prerequisite satisfactory score on the SPC placement test.
This course offers practical experience in a variety of forms of public speaking, with the focus on development of critical thinking, public address, audience analysis, and research. The student will evaluate the principles of speaking and listening skills and will learn techniques for speech analysis. This course partially satisfies the writing requirements as outlined in the General Education Requirements. Credit is not given for both SPC 1608 and SPC 1608H.

SPC 1608H Honors Public Speaking (3.00 Credits)
Prerequisite appropriate score on the college placement test or Prerequisite Permission of the Program
This course offers practical experience in a variety of forms of public speaking with an emphasis on argumentation and persuasion to improve the student's ability to transmit a well-researched, cogent, thoughtful message adapted to a particular audience. Emphasis is also placed on the study of effective aural communication. Students will engage in critical thinking and rhetorical criticism exercises. This course partially satisfies the writing requirements outlined in the General Education Requirements. (Note: Credit is only given for SPC 1608 or SPC 1608H.)

SPC 1631 Women and Communication (3.00 Credits)
(Prerequisite SPC 1017 with a minimum grade of C or Prerequisite SPC 1017H with a minimum grade of C or Prerequisite SPC 1608 with a minimum grade of C or Prerequisite SPC 1608H with a minimum grade of C) and (Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C)
This course examines patterns of communication, including women's public discourse in the U.S and worldwide. The social and cultural significance of women's participation in public discourse is assessed to understand the influence on diverse audiences in local and global communities. Students will explore the impact of women's communication and public discourse pertaining to leadership and will research speaker credibility and the nature of arguments in primary current and historical materials. Students will improve skills in critical thinking and analysis by recognizing the impact of women's communication.

SPC 2300 Interpersonal Communication (3.00 Credits)
Prerequisite ENC 1101 or Prerequisite IDS 1101H or Prerequisite ENC 1101H
This course is designed to provide an understanding of effective interpersonal communication behaviors and skills. The course is concerned with verbal and nonverbal elements affecting communication between individuals in family, peer group and work contexts. Students examine concepts and theories relevant to initiating, developing, modifying, maintaining, and terminating relationships with emphasis on the role of communication in the process. Lecture, discussion, in- and out-of-class observations, and "applied" assignments will be used to increase student knowledge and behavioral competence in interpersonal communication.

SPC 2541 Persuasion and Media (3.00 Credits)
(Prerequisite SPC 1017 with a minimum grade of C or Prerequisite SPC 1017H with a minimum grade of C or Prerequisite SPC 1608 with a minimum grade of C or Prerequisite SPC 1608H with a minimum grade of C) and (Prerequisite ENC 1101 with a minimum grade of C or Prerequisite ENC 1101H with a minimum grade of C or Prerequisite IDS 1101H with a minimum grade of C or Prerequisite IDS 1111H with a minimum grade of C)
This course examines the role of persuasion in public and social life. Students will be introduced to key concepts and theories of persuasion from a variety of historical and contemporary perspectives. Students will use these concepts to create, analyze, and respond to persuasive messages.

## SPM-Sports Management

SPM 3154 Principles of Sports Management (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
This introduction to the professional area of sport management discusses basic philosophy and principles of sport at all levels. The term sport refers to all recreational competitive sports, exercise and fitness activities, and dance. Management encompasses the activities associated with administration, supervision, and leadership.

SPM 4104 Sports Facility and Event Management (3.00 Credits)
Admission to Management and Organizational Leadership (Bachelor of Applied Science) (MGTORG-BAS) or Admission to Business Administration (Bachelor of Science) (BUS-BS) or Admission to Sustainability Management (Bachelor of Applied Science) (SUSMGT-BAS) or Admission to Technology Development and Management (Bachelor of Applied Science) (TMGT-BAS)
Facilities and Event Management will provide a basic understanding of the event management process as it relates to sports. Students will explore costs and revenue streams, marketing strategies, community and media partnerships, risk management, and contemporary issues.

## SPN-Spanish Language

SPN 1120 Elementary Spanish I (4.00 Credits)
No Requisites Required
This course introduces students to the four skills (listening, speaking, reading and writing) of the Spanish language and teaches students to appreciate the cultures of Spanish speaking countries. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/). (Note: Credit is only given for SPN 1120 or SPN 1120H.)

SPN 1121 Elementary Spanish II (4.00 Credits)
Prerequisite SPN 1120 or Prerequisite SPN 1120H or Prerequisite Permission of the Program
This course reinforces the basic Spanish language skills previously acquired. The course further develops listening, speaking, reading and writing skills as well as an understanding and appreciation of the cultures of Spanish-speaking peoples. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/). (Note: Credit is only given for SPN 1121 or SPN 1121H.)

SPN 2200 Intermediate Spanish I (3.00 Credits)
Prerequisite SPN 1121 or Prerequisite SPN 1121H or Prerequisite Permission of the Program
This course expands and reviews the previously acquired Spanish language skills and includes more advanced language structures and idiomatic expressions, with emphasis on conversational skills. Enhancing vocabulary for practical purposes, including writing is emphasized. A variety of reading selections will be introduced. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

SPN 2201 Intermediate Spanish II (3.00 Credits)
Prerequisite SPN 2200 or Prerequisite Permission of the Program
This course expands and reviews the Spanish language skills previously acquired by the students. Content includes but is not limited to more advanced linguistic structures and idiomatic expressions, with an emphasis on conversational skills. Growth in vocabulary for practical purposes is emphasized. A variety of writing exercises and reading selections will be included. Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

SPN 2240 Spanish Conversation and Composition I (3.00 Credits)
Prerequisite SPN 2201 or Prerequisite Permission of the Program
This intermediate course is designed to improve the student's Spanish language skills in the areas of listening comprehension, reading, speaking and writing, with a concentration on oral and written communication. The student will practice to develop proficiency in oral expression and will produce written assignments at an intermediate level of grammatical accuracy. Course material will include a variety of authentic Spanish language texts. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

SPN 2241 Spanish Conversation and Composition II (3.00 Credits)
Prerequisite SPN 2240 or Prerequisite Permission of the Program
This intermediate course is a continuation of Spanish Conversation and Composition I and is designed to improve the student's Spanish language skills in the areas of listening comprehension, reading, speaking and writing, with a concentration on oral and written communication. The student will continue to practice developing proficiency in oral expression and will continue to produce written assignments at an intermediate level of grammatical accuracy. Course material will include a variety of authentic Spanish language texts. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

SPN 2949 Study Abroad Cooperative Work Experience: Spanish (1.0-3.00 Credits)
Prerequisite Permission of the Program
This course is designed to provide students with experiential learning in a study abroad setting. Students are immersed in the culture while integrating the language skills in the work experience. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. Variable credits are available, one to three per course. The student must fulfill the requirement of 50 on-the-job hours for each credit earned in addition to written assignments. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

## SSE-Social Studies Education

SSE 4112 Social Studies Content in the Elementary Classroom (3.00 Credits)
Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS)

This course is designed to focus on and increase the content knowledge of Social Studies for future elementary educators. The students will explore the themes of Social Studies by: 1) utilizing primary and secondary sources to examine key historical events that are related by cause and effect; 2) analyzing the impact of the World Wars and Globalization on the United States; 3) researching various world contributions to the United States; 4) interpreting maps, statistics, and digital technology for physical and human systems in geography; 5) summarizing the structure, function and practices of the American Government and 6) synthesizing allocation of resources for economic conditions. Lectures, discussions, and extensive technology integration, constitute different course activities that are aligned with the Florida Elementary Education K-6 Social Studies competencies and the National Standards for Social Studies. This course is reading and writing intensive.

## STA-Statistics

STA 2023 Elementary Statistics (3.00 Credits)
Prerequisite Appropriate score on the SPC mathematics placement test or Prerequisite Completion of required developmental education coursework

In this course, students will utilize descriptive and inferential statistical methods in contextual situations, using technology as appropriate. The course is designed to increase problem-solving abilities and data interpretation through practical applications of statistical concepts. This course is appropriate for students in a wide range of disciplines and programs. ***State Core Course Description (State Rule 6A-14.0303).*** **This course satisfies the Mathematics General Education Core.** (Note: Credit is only given for STA 2023 or STA 2023H, but not both.)

STA 2023H Honors Elementary Statistics (3.00 Credits)
Prerequisite Appropriate score on the SPC mathematics placement test or Prerequisite Completion of required developmental education coursework

In this course, students will utilize descriptive and inferential statistical methods in contextual situations, using technology as appropriate. The course is designed to increase problem-solving abilities and data interpretation through practical applications of statistical concepts. This course is appropriate for students in a wide range of disciplines and programs. Same as STA 2023 with honors content. ***State Core Course Description (State Rule 6A-14.0303).*** The course also includes data-driven decision-making and communication of statistical results of the included topics. **This course satisfies the Mathematics General Education Core.** (Note: Credit is only given for STA 2023 or STA 2023H, but not both.)

STA 2041 Data Analysis & Statistical Modeling (3.00 Credits)
Prerequisite STA 2023 with a minimum grade of C and Prerequisite COP 1044 with a minimum grade of C
This course provides introductory coverage to various statistical topics and incorporates concepts from mathematics, statistics and computer science. Emphasis is placed on the practical techniques of collecting, analyzing, and interpreting data in the application of descriptive statistics, inferential statistics and exploratory data analysis. Additional topics, covered at a survey level, include contingency table analysis, regression analysis, analysis of variance and basic construction of statistical models.

## STS-Surgical Technology Studies

STS 1302 Introduction to Surgical Technology (3.00 Credits)
(Prerequisite BSC 1084C with a minimum grade of C or (Prerequisite BSC 2085 with a minimum grade of C and Prerequisite BSC 2085L with a minimum grade of C and Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C) ) and Prerequisite HSC 1531 with a minimum grade of C and Prerequisite ENC 1101 with a minimum grade of C and Pre- or Co-requisite MCB 2004C with a minimum grade of C and Pre- or Co-requisite STS 1302L with a minimum grade of C and Pre- or Co-requisite STS 1340 with a minimum grade of C
This course introduces the students to perioperative patient care as regards to the adult, pediatric, geriatric, bariatric and special needs patient care concepts and the professional roles and responsibilities of the surgical team members, with emphasis on the professional role of the surgical technologist. This course will also cover sterile technique, introduction to the program and facilities, mental health/personal hygiene, professional ethics, the design of the surgical suite, the health care team, legal issues in patient care, asepsis/infection control, instrument cleaning methods for prevention of infection, sterilization methods for prevention of infection, chemical disinfection, and environmental sanitation. Equipment, supplies and instrumentation pertinent to the care of the surgical patient will also be covered. Discussion on types of consents, transportation and transfer of the surgical patient, perioperative patient routines, safety issues and death will be included.

STS 1302L Introduction to Surgical Technology Lab (2.00 Credits)
(Prerequisite BSC 1084C with a minimum grade of C or (Prerequisite BSC 2085 with a minimum grade of C and Prerequisite BSC 2085L with a minimum grade of C and Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C) ) and Prerequisite HSC 1531 with a minimum grade of C and Prerequisite ENC 1101 with a minimum grade of C and Pre- or Co-requisite MCB 2004C with a minimum grade of C and Pre- or Co-requisite STS 1302 with a minimum grade of C and Pre- or Co-requisite STS 1340 with a minimum grade of C
This is a lab practicum to accompany STS 1302. This course is designed to introduce beginning surgical technology students to the skills necessary to function as a Surgical Technologist in the operating room including principles of aseptic technique, correct posture for scrubbing, the surgical scrub, gowning and gloving, and how to function within the operating room environment.

STS 1310 Surgical Principles and Techniques (4.00 Credits)
Pre- or Co-requisite STS 1302 with a minimum grade of C and Pre- or Co-requisite MCB 2004C with a minimum grade of C and Pre- or Co-requisite STS 1302L with a minimum grade of C and Pre- or Co-requisite STS 1340 with a minimum grade of C and Pre- or Co-requisite STS 1310L with a minimum grade of C
This course is designed to prepare students for the roles of the surgical technologist, including duties of the scrub role and duties of the assistant circulator. Other topics covered are chart review, patient identification, skin preparation, urinary catheterization, surgical counts, draping of the surgical patient, types of incisions, principles of wound healing, hemostasis and exposure of the operative field. Insertion of surgical drains and application of surgical dressings, along with relevant terminology, specimen care, pharmacology and anesthesia principles are covered. Actions are emphasized that facilitate the usual sequence of the surgical procedure for all segments of care, including the preoperative, intraoperative and postoperative care of the patient.

STS 1310L Surgical Principles and Techniques Lab (2.00 Credits)
Pre- or Co-requisite MCB 2004C with a minimum grade of C and Pre- or Co-requisite STS 1302 with a minimum grade of C and Pre- or Co-requisite STS 1302L with a minimum grade of C and Pre- or Co-requisite STS 1340 with a minimum grade of C and Pre- or Co-requisite STS 1310 with a minimum grade of C
This is a lab practicum to accompany STS 1310. This course will focus on the fundamental concepts of Surgical Technology in regards to instrumentation handling and passing in the surgical setting. This course will introduce students to instrument names, classification, parts, materials and instrument finishes, and the use of the instrument. During the course, the student will have the opportunity to learn the relationship between the instrument type and usage. The course will also focus on the function, assembly, and care of specialty and accessory equipment used in the surgical setting.

STS 1340 Pharmacology and Anesthesia (2.00 Credits)
(Prerequisite BSC 1084C with a minimum grade of C or (Prerequisite BSC 2085 with a minimum grade of C and Prerequisite BSC 2085L with a minimum grade of C and Prerequisite BSC 2086 with a minimum grade of C and Prerequisite BSC 2086L with a minimum grade of C) ) and Prerequisite HSC 1531 with a minimum grade of C and Prerequisite ENC 1101 with a minimum grade of C and Pre- or Co-requisite MCB 2004C with a minimum grade of C and Pre- or Co-requisite STS 1302 with a minimum grade of C and Pre- or Co-requisite STS 1302L with a minimum grade of C
This course is designed to introduce students to the most commonly used perioperative pharmacological agents and inhalant anesthesia, with emphasis on identification, handling and usage as it pertains to the operating room.

STS 2323 Surgical Procedures I (4.00 Credits)
Prerequisite STS 1310 with a minimum grade of C and Prerequisite STS 1310L with a minimum grade of C and Pre- or Co-requisite STS 2323L with a minimum grade of C
This course is designed to prepare students for surgical procedures, including the review of surgical anatomy, physiology, pathophysiology, relevant equipment, supplies and techniques regarding general surgery, orthopedic surgery, endoscopic surgery, gynecological and obstetrical surgery, genitourinary surgery, otorhinolaryngology surgery, and diagnostic procedures, including relevant equipment, supplies and techniques.

STS 2323L Surgical Procedures I Lab (2.00 Credits)
Prerequisite STS 1310 with a minimum grade of C and Prerequisite STS 1310L with a minimum grade of C and Pre- or Co-requisite STS 2323 with a minimum grade of C
This is a lab practicum to accompany STS 2323. This course includes the completion of mock surgical procedures used to facilitate the student's ability to anticipate the steps of surgical procedures and evaluate. The student's performance will be evaluated on the critical elements of the surgical technologist's responsibilities.

STS 2324 Surgical Procedures II (4.00 Credits)
Prerequisite STS 2323L with a minimum grade of C and Pre- or Co-requisite STS 2324L with a minimum grade of C and Pre- or Co-requisite STS 2944C with a minimum grade of C

This course is designed to prepare students for surgical procedures, including the review of surgical anatomy, physiology, pathophysiology, relevant equipment, supplies and techniques regarding plastic and reconstructive surgery, maxillary/mandibular surgery, oral surgery, ophthalmic, neurosurgery, cardiothoracic surgery, peripheral vascular surgery, and trauma surgery. This course is also an introduction to the principles of electricity and robotics trauma surgery.

STS 2324L Surgical Procedures II Lab (1.00 Credits)
Prerequisite STS 2323 with a minimum grade of C and Pre- or Co-requisite STS 2324 with a minimum grade of C and Pre- or Co-requisite STS 2944C with a minimum grade of C
This is a lab practicum to accompany STS 2324. This course includes the completion of mock surgical procedures used to facilitate the student's ability to anticipate the steps of surgical procedures and evaluate the student's performance regarding the critical elements of the surgical technologist's responsibilities.

STS 2936 Surgical Certification Symposium (2.00 Credits)
No Requisites Required

This course is designed to review and enhance the material learned in the surgical technology program. The knowledge and skill gained must be comprehended and then assessed by the National Board of Surgical Technology and Surgical Assisting (NBSTSA). The Certified Surgical Technologists (CST) exam examines practical knowledge that requires extensive study skills and application. This course will cover the CST exam content areas, study skills evaluation, references used for creating the CST, and practice examinations. The student will take the CST exam after successfully completing all program requirements, including this course.

STS 2944C Surgical Technology Clinic I (5.00 Credits)
Prerequisite STS 2323 with a minimum grade of C and Prerequisite STS 2323L with a minimum grade of C and Pre- or Co-requisite STS 2324 with a minimum grade of C and Pre- or Co-requisite STS 2324L with a minimum grade of C
This is a clinical course designed to prepare students for preoperative, intra-operative and postoperative surgical procedures via clinical experiences. Students gain experiences in the role of the scrub, assistant circulator and second assistant. Performance evaluation includes surgical techniques, sterile technique, medication administration, prevention of wrong site surgery, prevention of foreign body retention, safe work practices, work ethics, professional ethics, legal requirements, reporting, documentation and efficiency in the work arena. Students gain hands-on experience in the application of surgical techniques under the supervision of their preceptor and surgeon for the case.

STS 2945C Surgical Technology Clinic II (4.00 Credits)
Prerequisite STS 2944C with a minimum grade of C and Prerequisite STS 2324 with a minimum grade of C and Prerequisite STS 2324L with a minimum grade of C

This clinical course is a continuation of STS2944C designed to prepare students for preoperative, intra-operative, and postoperative surgical procedures via clinical experiences. Students gain experience in the role of the scrub, assistant circulator, and second assistant. Performance evaluation includes surgical techniques, sterile techniques, medication administration, prevention of wrong-site surgery, prevention of foreign body retention, safe work practices, work ethics, professional ethics, legal requirements, reporting, documentation, and efficiency in the work arena. Students gain hands-on experience in the application of surgical techniques under the supervision of their preceptor and surgeon for the case.

## SYG-Sociology, General

SYG 2000 Introduction to Sociology (3.00 Credits)
(Prerequisite REA 0017 and Prerequisite ENC 0025) or Prerequisite EAP 1695 or Prerequisite appropriate score on the SPC placement test.

In this course, students will gain an understanding of the basic sociological concepts and vocabulary, including the methodological tools, sociological perspectives, and scientific procedures used by social scientists to collect data and conduct research. Topics generally include: society and culture, institutions, socialization, influences, crime, change, groups, sex, race and ethnicity, family, class, and population. ***State Core Course Description (State Rule 6A-14.0303).*** This course partially satisfies the writing requirements outlined in the General Education Requirements. **Completion of SYG 2000: (1) prior to Fall 2024 (0640) satisfies Social & Behavioral Science CORE requirement, (2) between Fall 2024 (0640) and Summer 2026 (0665) satisfies Social & Behavioral Science ELECTIVE requirement, (3) Fall 2026 (0670) or later will satisfy 3 credits of electives.**

SYG 2010 Social Problems (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate score on the SPC placement test.
This course is an analysis of major social problems in the United States. Emphasis is placed on the causes of social problems, approaches to the analysis of problems, and the interrelationship of problems. Course topics include: crime, mental illness, poverty and inequality, family and marital problems, population and the environment. This course partially satisfies the writing requirements outlined in the General Education Requirements. (Note: Study Abroad opportunities may apply to this course https://blog.spcollege.edu/international/study-abroad/).

SYG 2324 Principles of Substance Abuse (3.00 Credits)
Prerequisite ENC 0025 or Prerequisite ENC 0056 or Prerequisite EAP 1695 or Prerequisite satisfactory score on the SPC placement test
This course is an overview of substance abuse. Topics examined include: historical perspectives; identification, intervention and outcome of abusers and their families; treatment techniques; prevention, intervention and rehabilitation resources; types of therapeutic and support groups; and the pharmacology of commonly abused substances. The course is recommended for those persons who would like to gain knowledge about substance abuse and its effect in today's society.

SYG 2430 Marriage and Family (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate score on the SPC placement test.

The social institution of marriage and family serves as a basic unit of social structure. This course deals with the following topics: human sexuality, pair relationships, love, communication, the dynamics of marital interaction, and established lifestyles. This course focuses on paired relationships and family relationships over the lifespan.

SYG 2949 Co-op Work Experience (1.00 Credits)
Prerequisite Permission of the Program

This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. Variable credits are available, one to three per course. The student must fulfill the requirement of 60 on-the-job hours for each credit earned in addition to written assignments. Co-op courses may be repeated but total credits shall not exceed twelve. To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

## SYP-Social Processes

SYP 2460 Effects of Disasters on Society (3.00 Credits)
No Requisites Required
This course focuses on human behavior and the stages of human response during and after a natural or man-made disaster; for example, hurricanes, tornadoes, earthquakes, floods, chemical spills, nuclear power plant accidents, riots, etc.

## TAR-Technical Architecture

TAR 1271 Professional Practice (3.00 Credits)
Prerequisite ARC 2461C with a minimum grade of C and ((Prerequisite BCN 1272 with a minimum grade of C or Prerequisite BCN 1251C with a minimum grade of C) or Permission of the Program)
This course is a general survey of office practices for the small entrepreneur in the Building Arts. It includes information on setting up an office, costs fees, legal implications, local, state, and federal regulations, and employee and client relationships.

## TAX-Taxation

TAX 2000 Federal Individual Income Taxation (3.00 Credits)
Prerequisite ACG 2021 with a minimum grade of C

This course is designed to provide an overview of the Federal individual income tax structure. Students will learn the laws, regulations, and accounting practices pertaining to individual Federal taxes. Students will analyze gross income, inclusions and exclusions, business expenses, depreciation, itemized deductions, and capital gains and losses. This course will provide training in these principles with applications using tax documents (forms) and tax software.

TAX 2100 Federal Taxation of Business Entities (3.00 Credits)
Prerequisite TAX 2000 with a minimum grade of C

This course provides an in-depth study of federal taxation of business entities and fiduciary relationships, including corporations, S corporations, partnerships, trusts, estates, and gifts. Students will learn how to determine taxable income, compute entity-level taxes, and prepare federal tax returns for each entity type. Topics include entity formation and liquidation, basis computation, distributions, and wealth-transfer taxation. Emphasis is placed on current Internal Revenue Code provisions.

## THE-Theatre Studies and General Resources

THE 2000 Introduction to Theatre Arts (3.00 Credits)
No Requisites Required

In this course, students will explore dramatic structure, techniques, and various organizational elements. The course provides an introduction to theatre as a collaborative art form through the critical analysis of its historical context, production, theory, and connections to theatrical literature, including the western canon. ***State Core Course Description (State Rule 6A-14.0303).*** **This course satisfies the Humanities General Education Core.**

THE 2090L Production Involvement for Theatre (Theater) (1.00 Credits)
Permission of the Program
Students participate in a SPC theatre production in either the production areas or performance area as actors or crew. The students will meet production deadlines for the play selected. Producing a play for the public is the goal. Student growth in and understanding of the performance of theatre, and becoming valuable assets to the theatre community, are the main objectives. Students will spend a minimum of 40 hours working on the production. May be repeated up to 6 times for credit. Permission required.

THE 2304 Script Analysis for Theatre (Theater) (3.00 Credits)
Prerequisite THE 2000 with a minimum grade of C

This is a course designed to prepare the student in the examination and analysis of play scripts as preparation for production. Through a working knowledge of theatrical literature, students may better grasp the knowledge of what is in a stage script and how to find the important information with the script. The student will read plays from various periods and genres and analyze dramatic elements such as plot, character, theme, dialogue and style. Students will analyze scripts looking for acting, design and directing indicators provided within the script. Study Abroad opportunities may apply to this course (https://blog.spcollege.edu/international/study-abroad/).

THE 2940 Theatre Internship (1.00 Credits)
Permission of the Program

This course provides the student with a supervised, practical learning experience in a work setting that is relevant to his/her program of study. Through course assignments and workplace projects the student will apply, connect, and extend academic theory and competencies for the purpose of building professional skills and affiliations. To view the specific requirements and process to enroll in this course, please see your program's internship course checklist.

## TPA-Theatre Production and Administration

TPA 1232C Introduction to Costume Construction for Theatre (Theater) (3.00 Credits)
No Requisites Required
This course offers an introductory study of costume construction techniques including work with costume shop equipment, fabrics, pattern drafting and fabric dyeing and decoration. The course is designed to prepare the student to perform the responsibilities needed to work in and also maintain a costume shop. Through a working knowledge of costume construction, the student shall understand costume shop hierarchy and the importance of the costume construction in the professional and educational theatre. (Note: A minimum of 45 lab hours. Additional hours may be required during production weeks.)

TPA 2200C Stagecraft I for Theatre (Theater) (3.00 Credits)
No Requisites Required
This course introduces the student to the technical aspects of theatre operations. Through classroom lectures and laboratory practice, the student will gain skills in the fundamentals of scenery construction, painting and rigging. Participation in a public performance is required. (Note: A minimum of 45 lab hours. Additional hours may be required during production weeks.)

TPA 2204C Stagecraft II for Theatre (Theater) (3.00 Credits)
Prerequisite TPA 2200C or Prerequisite Permission of the Program
This is a continuation of Stagecraft I, with an emphasis on more advanced construction techniques and problem solving with an introduction to theatrical drafting techniques and Computer Aid-Drafting (CAD). Students will serve in supervisory capacities on productions. (Note: A minimum of 45 lab hours. Additional hours may be required during production weeks.)

TPA 2600C Introduction to Stage Management for Theatre (Theater) (3.00 Credits)
No Requisites Required
This is a course designed to prepare the student to perform the responsibilities of a stage manager for a theatrical production, including organization, delegation, scheduling, and personnel management. Through a working knowledge of stage management, the student shall understand theatre hierarchy and the importance of the stage manager in the professional and educational theatre. (Note: A minimum of 45 lab hours. Additional hours may be required during production weeks.)

## TPP-Theatre Performance and Performance Training

TPP 1100 Acting I for Theatre (Theater) (3.00 Credits)
No Requisites Required
This course will include lectures and discussions to explain, analyze, and evaluate the theories, techniques, and principles of acting common to the various types of styles of dramatic production. Specific work in the areas of voice and body exercises and improvisations is included. Workshop projects help the student to develop his/her acting skill.

TPP 1111 Acting II for Theatre (Theater) (3.00 Credits)
Prerequisite TPP 1100 with a minimum grade of C or Prerequisite Permission of the Program
This course is the second level of acting involving lectures, discussions, and laboratory work to explain, analyze, execute, and evaluate the theories, techniques, and principles of performing various styles of acting before an audience. Specific work in both classical and contemporary styles will be examined. Workshop projects, both in class and for the public, will help the student develop his/her acting skills.

TPP 2300 Introduction to Directing for Theatre (Theater) (3.00 Credits)
Prerequisite TPP 1100 with a minimum grade of C or Prerequisite Permission of the Program
Lectures, demonstrations and discussions explain, analyze, and evaluate the theories, techniques and principles of directing common to the various types of styles of directing. Specific problems of script analysis and the director's relationship with actors, environment and audience will be studied. Workshop projects help the student to develop his/her directing style.

## TSL-Teaching English As a Second Language

TSL 3080 ESOL Issues: Principles and Practices I K - 12 (3.00 Credits)
Admission to Educational Studies and Community Leadership (Bachelor of Science) (EDST-BS) or Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) or Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS) or Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS) or Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT)

This course introduces key concepts and practices for teaching English to speakers of other languages (ESOL), providing foundational knowledge to support learners coming from a variety of language backgrounds. The 2025 Florida Teacher Standards for English for Speakers of Other Languages (ESOL) Endorsement are introduced in this course.

TSL 4081 ESOL Issues: Principles & Practices II K-12 (3.00 Credits)
((Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) or Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS)) and Prerequisite TSL 3080 with a minimum grade of C and Prerequisite EDE 4304 with a minimum grade of C and Prerequisite EDE 4943 with a minimum grade of C) or (Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS) and Prerequisite TSL 3080 with a minimum grade of C and Prerequisite EEC 4940 with a minimum grade of C) or (Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS) and Pre- or Co-requisite LAE 3940 with a minimum grade of C and Prerequisite TSL 3080 with a minimum grade of C)

This course offers an in-depth exploration of teaching English to speakers of other languages (ESOL) for education majors, focusing on bridging theory with practical application. Emphasis will be placed on the areas of Methods of Teaching ESOL (MT), ESOL Curriculum and Materials Development (CM), and Testing and Evaluation of ESOL (TE). All five ESOL Strands are comprehensively covered throughout this course. Students will complete 20 hours of field experience.

TSL 4140 Curriculum Development in ESOL (3.00 Credits)
Admission to Educator Preparation Institute (EPI) (Certificate with Financial Aid Eligibility) (EPI-CT) or Admission to Educator Preparation Institute (EPI) with Reading Endorsement (Certificate with Financial Aid Eligibility) (EPIR-CT)
This course will survey cross-cultural communication and understanding, testing and evaluation, curriculum, and methods of teaching ESOL to meet the needs to Limited English Proficiency students. Students will have 15 hours of field experience.

TSL 4939 ESOL Capstone (0.00 Credits)
(Admission to Elementary Education (K-6) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ELEDR-BS) and Pre- or Co-requisite EDE 4940) or (Admission to Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (Bachelor of Science) (ESEDR-BS) and Pre- or Co-requisite EEX 4940) or (Admission to Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (Bachelor of Science) (PKPED-BS) and Pre- or Co-requisite EEC 4946) or (Admission to Secondary English Education with Reading and ESOL Endorsement (Bachelor of Science) (ENGEDR-BS) and Pre- or Co-requisite LAE 4942 with a minimum grade of C)

This course is the final component of the English for Speakers of Other Languages (ESOL) Endorsement for Elementary Education, Exceptional Student Education, Secondary English Education, and Prekindergarten-Primary Education majors. In this course, teacher candidates will explore how their teaching practices address the needs of English Learners (ELs) by considering the Florida ESOL strands; Communication and Understanding for English Language Learners (ELLs) (CU), Applied Linguistics (AL), Methods of Teaching ESOL (MT) , ESOL Curriculum and Materials Development (CM) , and Testing and Evaluation of ESOL (TE) by completing a field-based project and instructional reflection.

## WOH-World History

WOH 2040 The Twentieth Century (3.00 Credits)
(Prerequisite ENC 0025 and Prerequisite REA 0017) or Prerequisite EAP 1695 or Prerequisite appropriate score on the Placement Test.
This course is a study of world history surveying the cultural, political, social and economic transitions since 1900. Emphasis is placed on the turn-of-the-century dominance of Europe, the competitiveness and militarism that led to World War I, and the affects of the peace settlements. Attention is given to the Soviet Revolution, the rise of fascism, Nazism, Asian neo-imperialism, and the malaise of the democracies; the Depression and its consequences; aggression, appeasement and World War II; the Cold War, communist China, the rise of the "Third World" and conflicting issues and values in contemporary society. This course partially satisfies the writing requirements outlined in the General Education Requirements. (Note: Credit is only given for WOH 2040 or WOH 2040H).

## ZOO-Zoology

ZOO 3307 Vertebrate Zoology (3.00 Credits)
Prerequisite BSC 2011 with a minimum grade of C and Prerequisite BSC 2011L with a minimum grade of C and Pre- or Co-requisite ZOO 3307L with a minimum grade of C
The major emphasis of this course focuses on the classification, evolution and biodiversity of vertebrates. Coverage of each taxonomic group will include discussion of characteristics, systematics, taxonomy, evolution, paleontology, biogeography and unique morphological, physiological, ecological and behavioral adaptations. (Note: Credit is only given for both ZOO 3307C or (ZOO 3307/ZOO 3307L)).

ZOO 3307L Vertebrate Zoology Lab (1.00 Credits)
Prerequisite BSC 2011 with a minimum grade of C and Prerequisite BSC 2011L with a minimum grade of C and Pre- or Co-requisite ZOO 3307 with a minimum grade of C
The major emphasis of this laboratory course focuses on the classification, evolution and biodiversity of vertebrates. Coverage of each taxonomic group will include discussion of characteristics, systematics, taxonomy, evolution, paleontology, biogeography and unique morphological, physiological, ecological and behavioral adaptations. NOTE: Credit is not given for both (ZOO 3307C) and (ZOO 3307/ZOO 3307L).

ZOO 3733C Human Anatomy with Lab (4.00 Credits)
Prerequisite BSC 2011 with a minimum grade of C and Prerequisite BSC 2011L with a minimum grade of C
This course is an advanced study of the anatomy of the human body. The study of the gross anatomy of the body will be enhanced with dissections. There will also be a study of the histology of the human body, selecting tissues important to each system. The systems approach is used and each major body system is examined in depth. The systems covered include: integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive. The structural relationships between organs within body regions will also be studied. The role of developmental processes in determining the location of organs in the adult body will be examined.

ZOO 4513 Animal Behavior (3.00 Credits)
Pre- or Co-requisite ZOO 4513L with a minimum grade of C and (Prerequisite PCB 3043 with a minimum grade of C or Prerequisite PCB 3063 with a minimum grade of C)
This course teaches how and why animals behave the way that they do. How animals behave is the realm of proximate causation, which incorporates physiological, developmental and genetic bases of behavior. Why animals behave a certain way is ultimate causation, which investigates the adaptive value of behavior. The adaptive component of behavior also introduces the sub-discipline of behavioral ecology, where the animal's behavior is studied in an ecological and evolutionary context. This allows us to merge concepts from Animal Physiology, Genetics and Ecology with behavior to provide a highly integrated program of study. (Note: Credit is only given for ZOO 4513C or (ZOO 4513/ZOO 4513L)).

ZOO 4513L Animal Behavior Lab (1.00 Credits)
((Prerequisite PCB 3043 with a minimum grade of C and Prerequisite PCB 3043L with a minimum grade of C) or (Prerequisite PCB 3063 with a minimum grade of C and Prerequisite PCB 3063L with a minimum grade of C) ) and Pre- or Co-requisite ZOO 4513 with a minimum grade of C
This course teaches how and why animals behave the way that they do. How animals behave is the realm of proximate causation, which incorporates physiological, developmental and genetic bases of behavior. Why animals behave a certain way is ultimate causation, which investigates the adaptive value of behavior. The adaptive component of behavior also introduces the sub-discipline of behavioral ecology, where the animal's behavior is studied in an ecological and evolutionary context. This allows us to merge concepts from Animal Physiology, Genetics and Ecology with behavior to provide a highly integrated program of study. The lab component helps students to understand the scientific process and to develop skills in observation, description, data analysis, basic statistics, literature review and evaluation, and writing. (Note: Credit is only given for ZOO 4513C or (ZOO 4513/ZOO 4513L)).

ADDENDUM

The addendum represents changes made to programs, courses, and other essential information that took place after the catalog's initial publication. These changes are in effect for the 2025-2026 academic year and are included below for summary purposes, and combined throughout, where appropriate.

## GENERAL INFORMATION

General tab and Financial Aid tab: removed "MyCourses" and replaced with "Canvas".
*Updated May 6, 2025*

## ACADEMIC INFORMATION

Revised the Associate in Arts (A.A.) and the Associate in Science (A.S.) descriptions.
*Updated July 30, 2025*

## PROGRAMS: NEW

*Effective Spring 2026 (660)*

**Financial Technology Specialist (FINTECH-CT) – College of Business**
The Fintech Specialist program prepares students for careers in the rapidly evolving FinTech industry. This program provides comprehensive training in financial technologies, data analytics, cybersecurity, and blockchain, equipping students with the skills needed to excel in high-demand roles. Graduates can pursue job opportunities as financial analysts, data analysts, blockchain developers, and entry-level cybersecurity specialists/assistants. The program includes courses that, combined with others, can lead to certificates and industry-recognized certifications, ensuring students are well-prepared for the competitive job market. Key learning outcomes include evaluating new financial technologies, analyzing web/mobile financial applications, interpreting financial data analytics, and understanding information security risks and policies.

**Veterinary Assisting Certificate (VETAST-CT) – School of Veterinary Technology**
This program offers a sequence of courses that provides rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Veterinary Assisting; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of Veterinary Assisting. This certificate will allow students to identify potential employers based on their skill set and allow better utilization within the workforce while they continue through the Veterinary Technology program. Admission to the Veterinary Technology A.S. program is required to be eligible for the Veterinary Assisting Certificate.

## PROGRAMS: MODIFICATIONS

*Effective Spring 2026 (660)*
Applied Mental Health (AMH-ATC)
Digital Media (DIG-AS)
Digital Graphic (CDG-CT)
Digital Media/Multimedia Foundations (DMFND-CT)
Digital Media Video Production (DVPRD-CT)
Educational Studies and Community Leadership (EDST-BS)
Elementary Education (K-6) with Reading Endorsement Apprenticeship (ELEDRA-BS)
Elementary Education (K-6) with Infused ESOL & Reading Endorsements (ELEDR-BS)
Secondary English Education with Reading Endorsement Apprenticeship (ENGEDRA-BS)
Secondary English Education with Reading and ESOL Endorsement (ENGEDR-BS)
Educator Preparation Institute (EPI-CT)
Educator Preparation Institute with Reading Endorsement (EPIR-CT)
Exceptional Student Education (K-12) with Reading Endorsement Apprenticeship (ESEDRA-BS)
Exceptional Student Education (K-12) with Infused ESOL & Reading Endorsements (ESEDR-BS)
Digital Photography (PGY)
Prekindergarten/Primary Education (age 3 through grade 3) with Reading Endorsement Apprenticeship (PKPEDA-BS)
Prekindergarten/Primary Education (age 3 through grade 3) with Infused ESOL and Reading Endorsements (PKPED)

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## COURSES: NEW

*Effective Spring 2026 (660)*
EET 2950C Electronics Capstone Project
HUS 4930 Special Topics Seminar for First Responders

## COURSES: MODIFICATIONS

*Effective Spring 2026 (660)*
AML 3201 Major Movements in American Literature since 1865
ART 1203C Design II
ASL 1140C Basic American Sign Language with Lab
ASL 1150C Intermediate American Sign Language with Lab
ASL 1160C Advanced American Sign Language with Lab
ASL 1300 Structure of American Sign Language
ASL 1430 Fingerspelling
ASL 1510 Introduction to Deaf Culture
ASL 2210C American Sign Language IV with Lab
ATE 2050C Small Animal Behavior
ATE 2947 Veterinary Work Practicum V
ATE 3621 Integrative Veterinary Nursing
BUL 3322 Legal Issues in International Business
CGS 2811 Incident Response & Disaster Recovery
DEH 2702C Community Dental Health Practicum
DEH 3814 Introduction to Dental Hygiene Research
DIG 1004 Exploration of Media Tools
DIG 2000 Introduction to Digital Media
DIG 2091 Legal Issues in Media Development
DIG 2100 Web Design I
DIG 2115C Digital Imaging
DIG 2116 Advanced Digital Image Editing
DIG 2131 Digital Art and Design
DIG 2183 Digital Drawing
DIG 2200 Basic Video Camera

DIG 2205 Basic Video Editing
DIG 2251 Sound For Media
DIG 2311 Motion Graphics I
DIG 2410 Basic Scripting for Videos
DIG 2545 Media Planning
EDE 4226 Integrated English Language Arts, Social Studies and Creative Arts for the Elementary Classroom
EDE 4304 Integrated Mathematics and Science
EDE 4940 Internship: Elementary Education
EDE 4943 Integrated Mathematics and Science Practicum
EDF 3214 Student Development and Learning Principles K-12
EDF 3931 Special Topics
EDF 4264 Learning Theory and Instruction
EDF 4430 Measurement, Evaluation and Assessment in Education K-12
EDF 4944 EPI Practicum
EDG 3410 Classroom Management and Communication K-12
EDG 3620 Curriculum and Instruction for Students in General and Exceptional Student Education
EDG 4419 Building Classroom Management and Discipline
EDG 4940 EDST Internship
EEC 3005 Child Growth and Development in Early Childhood
EEC 3009 Foundations of Early Childhood and Education
EEC 3413 Working With Families in Early Childhood Education
EEC 4210 Integrated Curriculum I for Prekindergarten / Primary Education
EEC 4211 Integrated Curriculum II: For Prekindergarten/Primary Education
EEC 4314 Social/Emotional Competence
EEC 4940 Pre-Kindergarten/Primary Education Practicum I
EEC 4941 PreKindergarten/Primary Education Practicum II
EEX 3012 Nature and Needs of Exceptional Students K-12
EEX 3241 Curriculum and Instruction for Exceptional Students
EEX 4294 Differentiated Instruction
EEX 4604 Effective Classroom Management for Students in General and Exceptional Education
EEX 4753 Collaboration with Families and Communities in Education
EEX 4940 Internship: Exceptional Student Education
EME 4312 Educational Technology for 21st Century Teaching
FIN 4470 Entrepreneurial Finance
GRA 1206 Typography
GRA 2160 Computer Animation
GRA 2201 Advanced Digital Publishing
IDH 2634H Honors Service Learning
INR 2002H Honors International Relations
LAE 3323 Methods of Teaching English in the Middle School
LAE 3940 Methods of Teaching English in the Middle School Practicum
LAE 4335 Methods of Teaching English in the Secondary School
LAE 4941 Methods of Teaching English in the Secondary School Practicum
LIN 4680 Modern English Grammar
LIT 3103 Literature of the World
MAE 3320 Interactive Teaching Methods for Middle School Mathematics
MAE 3941 Interactive Teaching Methods for Middle School Mathematics Practicum
MAE 4330 Instructional Methods in Secondary Mathematics with Technology
MAE 4642 Assessment in Mathematics Education
MAE 4940 Internship: Secondary Mathematics Education 6-12
MAE 4942 Instructional Methods in Secondary Mathematics with Technology Practicum
MAN 4883 Project Management Methodology in Specialization
PGY 2000 History of Photography
PGY 2107C Large Format Photography
PGY 2201C Photography Studio Lighting
PGY 2210C Professional Studio Portraiture
PGY 2401C Photography I

PGY 2404C Intermediate Photography
PGY 2446C Alternative Processes/Photography
PGY 2470C Themes for Photographers
PGY 2475C Portfolio Development
PGY 2750C Introduction to Video Production
PGY 2800C Digital Photography
PGY 2940C Professional Practices/Internship
PHT 2810L Physical Therapy Clinical Practice II
QMB 3200 Quantitative Methods for Business
RED 4043 Reading within the Disciplines 5-12
RED 4511 Intermediate Literacy 3-6: Reading, Writing and Thinking
RED 4519 Diagnosis and Intervention in Reading for Students in K-12
RED 4940 Final Reading Internship
SCE 4113 Science Concepts in the Elementary Classroom
TSL 3080 ESOL Issues: Principles and Practices I K - 12
TSL 4081 ESOL Issues: Principles & Practices II K-12
TSL 4939 ESOL Capstone

## COURSES: DEACTIVATION

*Effective Spring 2026 (660)*
SCE 4943 Internship: Middle Grades General Science Education 5-9

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## LEADERSHIP

**President/Board of Trustees**
Katherine E. Cole, Vice Chair
*updated 09/29/2025*

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## ACADEMIC PROGRAMS OF STUDY and PROGRAMS BY DEGREE TYPE

*Updated October 2025*
Added Program Learning Outcomes (PLOs) to each program.