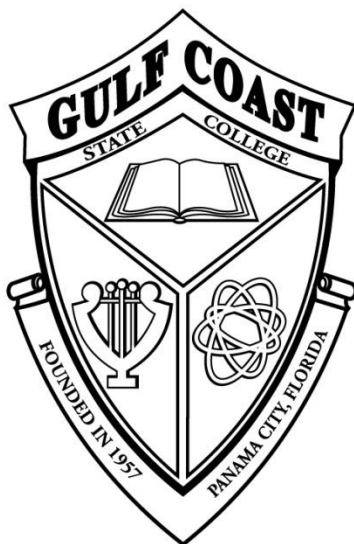# 2015-2016
GENERAL CATALOG

Meet
Gulf Coast.

Gulf Coast State College
5230 West Highway 98
Panama City, Florida 32401
(850) 769-1551 facsimile (850) 872-3836
Toll Free: 1-800-311-3685
Telecommunications Device for the Deaf (TDD) (850) 872-3834
Florida Relay System 1-800-955-8771 (TDD only)
www.gulfcoast.edu

Gulf Coast State College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award certificates, diplomas, associate degrees and baccalaureate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions regarding the accreditation status of the institution or if there is evidence that appears to support Gulf Coast State College's significant non-compliance with a requirement or standard.

Gulf Coast is also a member of the American Association of Community Colleges, Association of Florida Colleges, American Council on Education, and Council for Advancement and Support of Education.

Volume LIX   Number 1

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GCSC Service District
Bay, Gulf & Franklin Counties
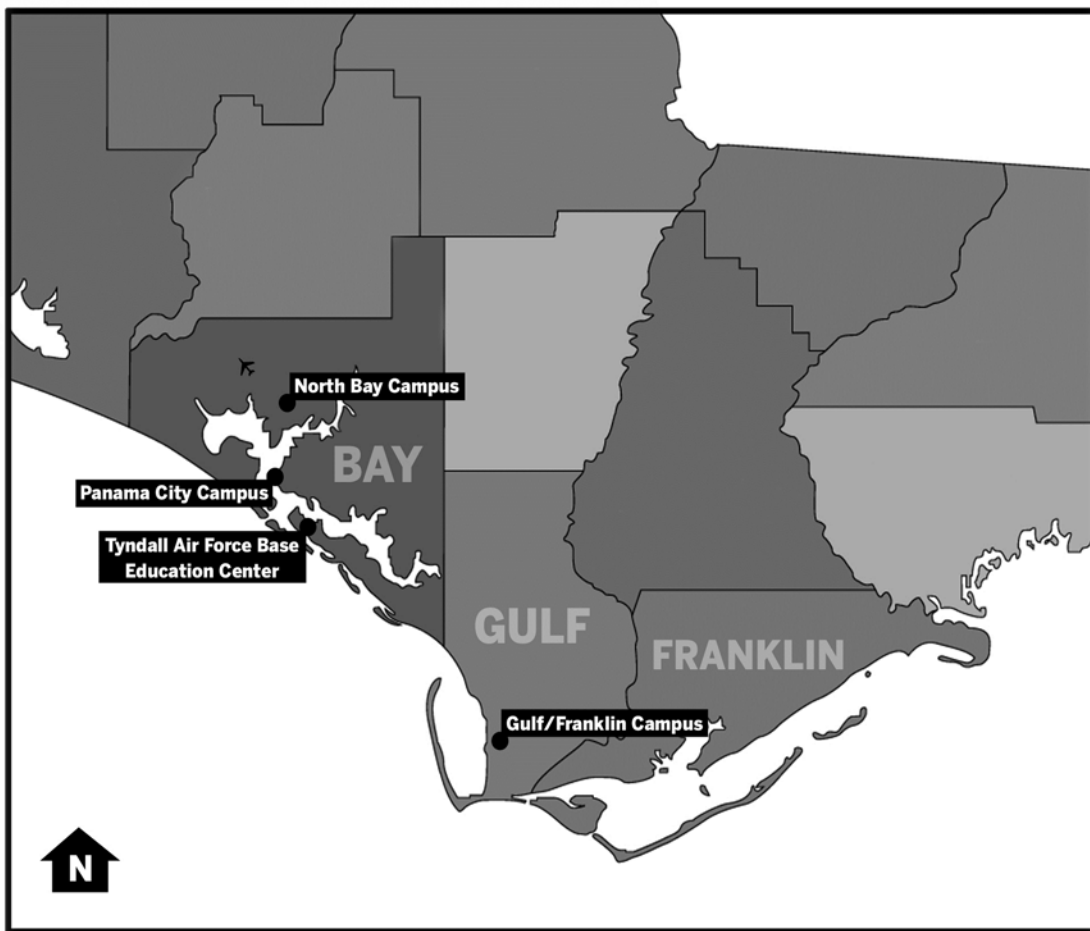
GCSC Panama City Campus

Classroom Sites

AC -- Amelia G. Tapper Center for the Arts
ATC -- Advanced Technology Center
           (John M. Holley Dining Room/Millaway Institute)
BS -- J.R. Asbell Business Building
CS -- CareerSource Gulf Coast Workforce Board/VBOC
HR -- Human Resources
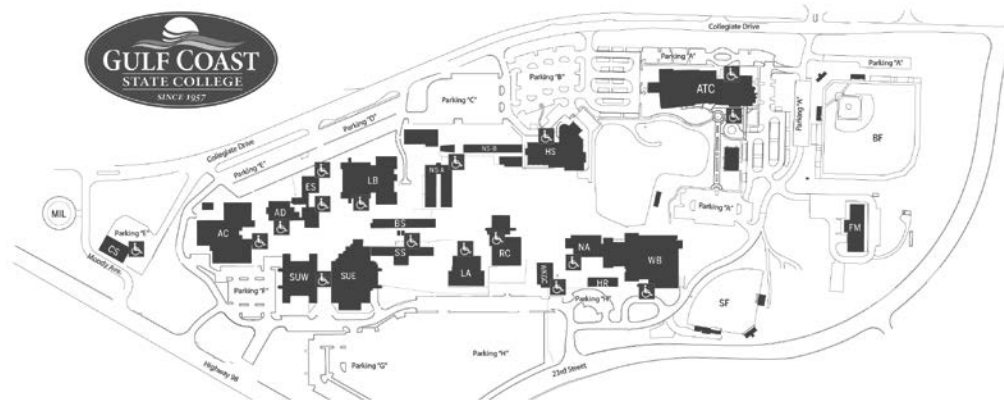HS -- George G. Tapper Health Sciences Building/Dental Clinic
LA -- The Russell C. Holley and Herbert P. Holley Language &
           Literature Building/Sarzin Lecture Hall
LB -- Library
NA -- Natatorium/Pool
NS-A -- Natural Sciences Labs/Offices
NS-B -- Natural Sciences Classrooms/Ken Sherman Science Center
RC -- Rosenwald Junior College Classroom Building
           (The Writing & Reading Lab)
SS -- Social Sciences Building
SUE -- Student Union East/Gibson Lecture Hall
           (SGA/Student Affairs/Corporate College/Coffee Shop/Café)

SUW -- Student Union West
           (Bookstore/Advising Center/Testing Center/
           Mathematics/The Math Lab/GCSC Foundation)
WB -- Wellness Building/Billy Harrison Field House
WKGC -- WKGC-FM/AM Studios

Administrative Sites

AD -- Administration Building
           (Business Office/Dual Enrollment)
ES -- Enrollment Services Building
           (Admissions/Financial Aid/E.A. Gardner
           Conference Room)
FM -- Facilities Management
MIL -- Military Park

Sports Complexes

SF -- Softball/Joe Tom King Field
BF -- Baseball/Bill Frazier Field

   Automatic Doors for Disabled

GCSC Gulf/Franklin Campus
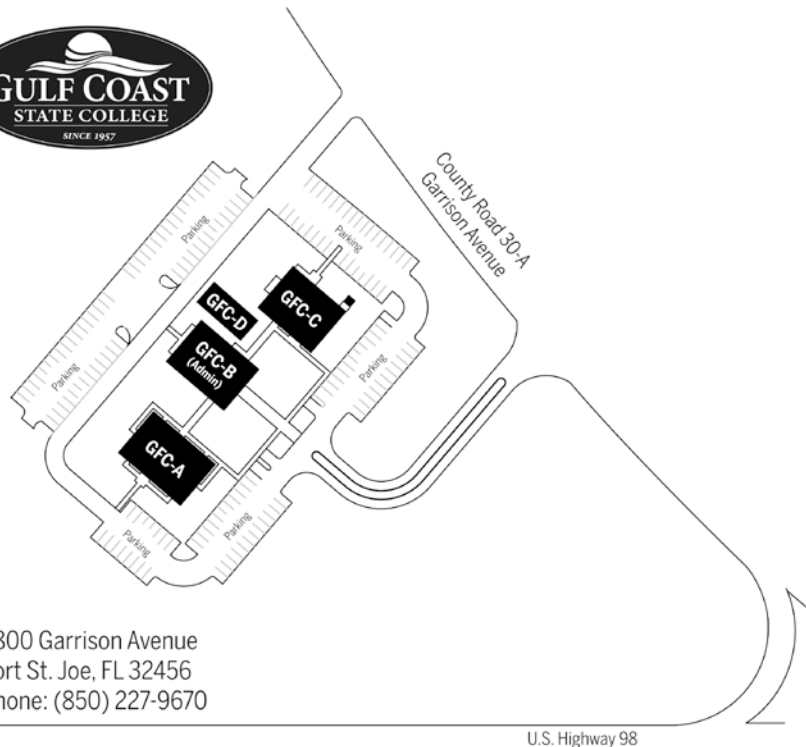
3800 Garrison Avenue
Port St. Joe, FL 32456
Phone: (850) 227-9670

GCSC Tyndall Education Center
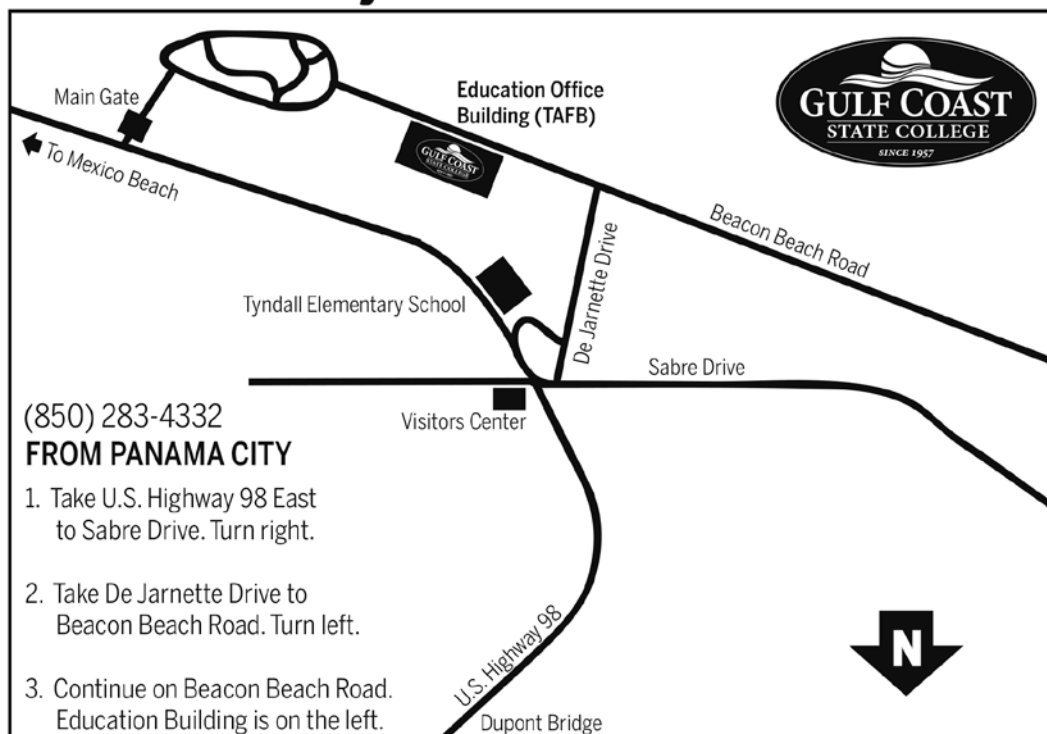
(850) 283-4332
FROM PANAMA CITY

1. Take U.S. Highway 98 East to Sabre Drive. Turn right.

2. Take De Jarnette Drive to Beacon Beach Road. Turn left.

3. Continue on Beacon Beach Road. Education Building is on the left.

GCSC North Bay Campus

GULF COAST
STATE COLLEGE
SINCE 1957

Bay County Emergency Operations Center
GCSC Public Safety Complex/

Helicopter
Pad

Abbott Classroom
Building

Parking

Driving Range

Underwater Rescue Training Pond

Classrooms
A & B

Simulator/
Classroom

Classroom D   Classroom E

Parking

Firing
Range

Restrooms

Fire/Marine
Burn Building

County Road 2300

637 Highway 2300
Southport, FL 32409
Phone: (850) 872-3878

N

State Road 77

2015-2016 College Calendar	Fall 2015 (201508)		
	Session A 8/24-12/18	Session B 8/24-10/19	Session C 10/20-12/18
Academic Dates and Deadlines			
First time in college students must attend an orientation session to be eligible for registration.			
Early Registration for Students Receiving Veteran Benefits from GCSC	May 15	May 15	May 15
Open Registration for all campuses (Excludes Sat., Sun., & holidays) See In-service Day below.*	May 19-August 21	May 19-August 21	May 19-October 21
Web registration will be available when college is closed except for scheduled maintenance wi			
Registration Fees Due	August 10	August 10	After August 10, fees due at point of registration
Classes Begin	August 24	August 24	October 20
Drop/Add	August 24-28	August 24-28	October 20-21
Last day to cancel registration/drop courses and receive a refund.	August 28	August 28	October 21
Last day to change major and credit to audit.	August 28	August 28	October 21
Midterm	October 19	September 21	November 17
Withdrawal Deadline: "W" if passing, F" if failing	October 26	September 28	November 24
Final Examinations	December 11-17	October 14-16	December 14-17
Term Ends	December 18	October 19	December 18
Grades available via Lighthouse	December 22	October 22	December 22
Graduation Application Deadline	October 26	October 26	October 26
In order for summer graduates to participate in the spring ceremony,			
Graduation			
Honors Convocation			
Student Holidays - Classes will not be held on these days.	September 5-7		
	November 11		
	Nov. 25-29		
College Closed for all students and employees.			
*In-service Day	August 17		
Memorial Day			
Independence Day			
Labor Day	September 5-7		
Veteran's Day	November 11		
Thanksgiving Holidays	Nov. 26-29		
Christmas Break/New Year's Holiday	December 24-January 3		
Martin Luther King, Jr. Day			
Spring Break			

Gulf Coast State College reserves the right to change the college calendar, or to make other changes deemed necessary, giving advance notice o

Spring 2016 (201601)			Summer 2016 (201605)		
Session A 1/6-5/5	Session B 1/6-3/3	Session C 3/4-5/5	Session A 5/11-8/4	Session B 5/11-6/22	Session C 6/23-8/4
October 30	October 30	October 30	April 8	April 8	April 8
November 3- December 16 January 4	November 3- December 16 January 4	November 3- December 16 January 4 - March 3	April 11 - May 5	April 11 - May 5	April 11 - June 21

indows. (Fall 2015: May 18-October 21; Spring 2016: November 2-March 8; Summer 2016: April 11-June 27 beginning at 12:15 a.m.)

January 4	January 4	After January 4, fees due at point of registration	May 9	May 9	After May 9, fees due at point of registration
January 6	January 6	March 4	May 11	May 11	June 23
January 6-12	January 6-12	March 7-8	May 11-12	May 11-12	June 23-27
January 12	January 12	March 8	May 12	May 12	June 27
January 12	January 12	March 8	May 12	May 12	June 27
March 3	February 4	April 7	June 22	June 1	July 14
March 10	February 11	April 14	June 29	June 8	July 21
April 29 - May 5	March 1-3	May 2-May 5	August 1-4	June 20-21	August 1-4
May 5	March 3	May 5	August 4	June 22	August 4
May 10	March 10	May 10	August 8	June 24	August 8
February 22	February 22	February 22	July 11	July 11	July 11

, they must submit their summer graduation application prior to the spring application deadline. No exceptions.

May 6					
April 29					
January 16-19			May 28-30	July 2-4	
March 14-20					

			May 28-30		
				July 2-4	
January 16-18					
March 14-20					

of change when possible.

STATEMENT OF VALUES, VISION, AND MISSION

Statement of Values

Holding true to its vision and working continuously on mission, Gulf Coast State College affirms these values as essential to all the College is and does:

• Boldness of vision
• Responsiveness to the community
• Culture of honesty and trust
• Open expression of ideas
• Diversity of thought and culture
• Flexibility and agility
• Ease of access and affordability
• Outstanding teaching and service
• Creativity and innovation
• Purposeful work

Vision

Gulf Coast State College will deliver life-changing learning opportunities and will join as a full partner in dynamic cultural and economic development of the region.

Mission

Gulf Coast State College holds students and community of central importance. The College provides many opportunities for learning and offers a range of programs and services to help students become well-educated, productive citizens. The College is equally dedicated to collaborating with the community to help create or improve economic well-being and to offer the space of the college for social dialog, events of art and culture, and other moments that enhance our quality of life.

COLLEGE HISTORY

Serving the community since 1957, Gulf Coast State College was the first public two-year institution to open after the 1957 Florida Legislature established a statewide network of community colleges. Located in Panama City on Florida's Emerald Coast, Gulf Coast is one of 28 public colleges in the state, all located within commuting distance of 96 percent of the population.

From September 1957 through the spring of 1960, the College operated in temporary facilities at the Wainwright Shipyard (located across the street from the present location at 5230 West Highway 98). The City of Panama City provided 40 acres for the permanent campus overlooking St. Andrew Bay; the College purchased the remaining 40 acres. Construction of new buildings on the campus began in 1959, with the actual move to the new campus completed the next year.

Buildings comprising the current campus and other college sites and their dates of first occupancy are the Natural Sciences Building, including the Ken Sherman Science Center (1960; renovated 1978, 1993, 2003, and 2006), Administration Building (1960; renovated 1978 and 1989), Enrollment Services Building (originally the Admissions and Records Building; 1960; renovated 1970 and 1995; renovated and renamed in 2010), James R. Asbell Business Building (1960; renovated in 1978 and named for Mr. Asbell in 1979), Russell C. Holley and Herbert P. Holley Language and Literature Building (1962; former Library; renovated and renamed Language Arts Building in 1977, renovated and renamed in 2004, renamed in 2006), Billy Harrison Health Building (1965; demolished in 2003), Human Resources (1965; former Maintenance Building; renovated and renamed Wellness Center in 1995; renovated and renamed Professional Development Center in 2003; renamed 2012), Rosenwald Junior College Classroom Building (1965; originally the Student Center; renovated in 1978 and 1992 and renamed in 1994), Amelia G. Tapper Center for the Arts (1967; renovated and renamed for Mrs. Tapper in 1994), Social Sciences Building (1967; renovated in 2001), Technology Building (1969; renovated in 1985; demolished in 2013), Library (1976; originally named the Learning Resource Center), WKGC-AM/FM

Studios (1981; renovated in 2005), George G. Tapper Health Sciences Building (1983; renovated 2009), North Bay Center (1990; originally the Criminal Justice Training Academy; renamed the Charles H. Abbott Criminal Justice Training Academy and expanded to include the Abbott Classroom Building in 2000), Student Union, East and West Wings (1991; west wing expanded to included two additional floors in 2004), Natatorium (1991), Facilities Management Building (1995), Gulf/Franklin Center (1998), Wellness Complex (2003; includes new gym named Billy Harrison Field House), Workforce Development Building (2004; formerly the Florida Highway Patrol Building), Public Safety Complex/Emergency Operations Center (2010), Military Park (2012), and the Advanced Technology Center (2013).

For its first nine years, the College served primarily the residents of Bay County. In the summer of 1966, Gulf County became part of the College's service district, and Franklin County was added in 1984. GCSC has an enrollment of more than 22,000 credit, noncredit, workforce, and continuing education students.

Throughout its history, the College has been committed to providing a first-class education. This commitment is evidenced by the excellent performance of GCSC graduates who transfer to a state university as well as by the high job placement rates of students in occupational programs.

THE GULF COAST STATE COLLEGE FOUNDATION, INC.

History

The Gulf Coast State College Foundation, Inc., (formerly Gulf Coast Community College Foundation), was incorporated on October 16, 1967 by the State of Florida as a 501(c)(3) non-profit corporation.

Vision and Mission

Based on the principles of trust and integrity, the vision of The Gulf Coast State College Foundation is to advance the causes of Gulf Coast State College.

The Gulf Coast State College Foundation's mission is to create a scholarship program providing educational opportunities to deserving students. Further, the mission of the Foundation is to enhance the educational programs and student services available at GCSC. Through the active involvement and leadership of citizens united by these purposes, the Foundation serves as an effective liaison between the GCSC and the community. The Foundation assists the College in enriching the community through cultural opportunities and in enhancing economic development of the community with educational programs.

Scholarships

The Foundation has more than 600 scholarships available to college students seeking to offset their educational expenses. The application period is open from January 1st to March 1st each year, and is open to all students enrolled or planning to enroll at Gulf Coast State College. The past year the Foundation provided more than $800,000 in scholarship support. Award amounts are determined each year by the Foundation's Board of Directors. For more information, please go to www.gcscfoundation.org/scholarships.

High School Honors Scholarships

High School Honors Scholarships are monetary awards given to high school seniors who are committed to attending Gulf Coast State College in the fall following their graduation. Applicants must be a public or charter school student from Bay, Gulf, or Franklin counties and have a "weighted" GPA of 3.5 or higher. All applicants must be accepted into Gulf Coast State College and have a student ID number. The application period is open from January 1st to March 1st each year. Award amounts are determined each year by the Foundation's Board of Directors.

Questions about the GCSC Foundation

The Foundation office is located inside the Student Union West Building, 3rd Floor, Suite 325. Office hours are Monday – Friday, 8 am to 4 pm (CST). For more information, please visit our website at www.gcscfoundation.

THE GULF COAST STATE COLLEGE ALUMNI ASSOCIATION

The mission of the GCSC Alumni Association is to engage alumni, students, supporters, and friends of Gulf Coast State College in programs, events and services that ignite interest, build loyalty, and create support for Gulf Coast State College.

What are the benefits?   Being a part of the GCSC Alumni Association can certainly be rewarding. Not only do you benefit by being kept up-to-date on all things Gulf Coast, but you also have opportunities involving networking and alumni recognition, attending discounted theatre and athletic events, keeping in touch with classmates, attending special alumni events and receptions, and participating in educational workshops. Alumni Association members also receive special "member" discounts at many local businesses. For a complete list of Benefit Partners, visit www.gulfcoast.edu/alumni/member_benefits.htm.

How does the Alumni Association recognize and support alumni and students in our community? The GCSC Alumni Association has established new initiatives to recognize, support, and mentor alumni, students and community members:

- **The GCSC Distinguished and Rising Star Alumni Awards** were established in 2010 to recognize and honor the accomplishments of our outstanding alumni. Eligible alumni are nominated by community members in one of two categories, including the Distinguished Alumni Award and the Rising Star Alumni Award (for alumni completing their studies at GCSC within the past ten years). Finalists are selected based on their achievements in career, service to our community, and their contributions to the educational experience of GCSC students. Finalists are recognized and award winners are announced each spring. Recipients of this prestigious award are:

  AWARD WINNERS
  Distinguished Alumnus of the Year
  2015: Mr. Curtis "CC" Carter, Jr.
  2014: Ms. Cheri Boyle
  2013: Mr. Bill Husfelt
  2012: Ms. Maria Baugh
  2011: Sheriff Frank McKeithen
  2010: Dr. Ingrid Johnson Rachesky
  Rising Star Alumnus of the Year
  2015: Ms. Sarah S. DuBose
  2014: Dr. O]Umar Karaman
  2013: Ms. Morgan Burleson
  2012: Ms. Sarah Kemper
  2011: Ms. Tamika Williams

- **The GCSC Alumni Legacy Scholarship** was initiated in 2010 to support a deserving student in receiving an excellent education experience at GCSC. The Alumni Association is proud to report that this scholarship was completed and endowed with the GSCS Foundation in July 2013. The GCSC Alumni Legacy Scholarship is open to all "Legacy" students whose parent(s) have obtained a degree from Gulf Coast. Applicants must have a cumulative GPA of 2.5 or higher and demonstrate merit and financial need. Priority consideration is given to applicants whose parent or parents are current members of the Association and who reside in Bay, Gulf, or Franklin County. The Alumni Association will award our sixth recipient in 2015.

- **The GCSC Alumni Association ATC Community Meeting Room Sponsorship** was initiated in 2012 and completed in March 2014. The Advanced Technology Center (ATC) offers students new skills and training through innovative programs that will ultimately provide an adaptable workforce to attract new businesses that will help our community grow and prosper.

- **The GCSC Alumni Association Sponsorship of the Rosenwald Junior College Center for Social Change & Inclusion** supports the development of a dynamic learning environment and "living history" of Rosenwald Junior College. Students, alumni and community members are encouraged to utilize the center to remember and learn about the history of this corner stone of Bay County through verbal and written recollections, artifacts and on-going social dialogue.

- **The Alumni Association's Career Workshops** were initiated in 2009 and have been extremely successful in helping students, alumni, and community members with their job search preparations. Participants learn tips and techniques for improving their resumes, interview skills, social networking skills, and how to dress for success. Workshops conclude with a professional panel of Alumni Advisory Council members and community leaders answering individual questions and offering professional advice to help each participant with their specific job search needs.

Who can join? The GCSC Alumni Association's "Alumni" membership is open to all Gulf Coast State College alumni. A GCSC alumnus is defined as anyone who has earned a degree and/or completed a certificate program from Gulf Coast State College. Additionally, the Alumni Association offers a "Friend" membership for friends and patrons who support the mission and initiatives of the association, but are not GCSC alumni.

What is the cost to join? Membership fees support GCSC Alumni Association events and activities. Several "Alumni" and "Friend" membership options are available as listed below:

Alumni Membership
- Lifetime Alumni Membership: $500
- 10-Year Alumni Membership: $250
- Annual Family Alumni Membership: $25 (includes spouse and minor children living in your household)
- Annual Individual Alumni Membership: $15
- New Graduate Membership: complimentary one-year membership upon graduation

Friend Membership
- Lifetime Friend Membership: $500
- 10-Year Friend Membership: $250
- Annual Family Friend Membership: $25 (includes spouse)
- Annual Individual Friend Membership: $15
- Annual Current Student Membership: $10

How can I get more involved? Join the Alumni Association and become an active member by participating in Alumni Association events and activities throughout the year. If you are interested in a leadership role with the Alumni Association, our Alumni Advisory Council is responsible for leading the Alumni Association with recommendations and support for fundraising, membership growth, member recognition, mentoring initiatives, community service and awareness. If you are interested in becoming a member or learning more about the Alumni Advisory Council, please contact the Office of Alumni Affairs at the number below.

Join Today! Contact the Office of Alumni Affairs today for more information and/or join online by visiting our web site: GCSC Office of Alumni Affairs, phone: (850) 873-3583; Email: alumni@gulfcoast.edu; Web: www.gulfcoast.edu/alumni.
Questions about GCSC Alumni Association Membership? For more information, please contact the GCSC Office of Alumni Affairs by email alumni@gulfcoast.edu, phone (850) 873-3583 or by visiting our website at www.gulfcoast.edu/alumni.

ADMISSIONS

Students should know Gulf Coast State College is a tobacco free campus.

Students can apply online by visiting www.gulfcoast.edu and clicking on "Apply Online." The following chart summarizes the supported documents required for the various student categories.

Student Category	Application Form	H.S. Transcript or equivalent	College Transcript(s)	GCSC Placement Test	TOEFL Score	Letter from high school official	Home-school Affidavit	Tests of Adult Basic Ed (TABE)
A.A. Degree Seeking	✓	✓	✓	3				
B.A.S, B.S.N, A.S. Degree, A.A.S., or Technical Certificate	✓	✓	✓	3				
PSAV Certificate	✓	✓	✓	1				✓
Health Sciences Students	✓	✓	✓	4				
Non-Degree Seeking Students	✓		1	3				
Dual Enrolled Students	5			3		✓		
Early Enrolled Students	✓	✓		3		✓		
Home School Graduates	✓	✓	✓	3			✓	
Audit Students	✓		1	3				
International Students	✓	✓	2	3	✓			

1 = See Enrollment Services Office for exceptions.
2 = Required from each college or university attended.
3 = Required of all students planning to pursue a degree or take English or math courses. (Transfer students who have completed a college- level English and math courses are excluded.)
4 = Placement test scores used for acceptance into program.
5 = See Office of Instructional Support, Room 344, Student Union West, (850) 769-1551, extension 3207.

All transcripts must be sent directly from the high school or college to the Enrollment Services Office. Copies will not be recognized as official.

The college offers credit and non-credit courses. Any high school graduate or adult who can profit from additional educational experiences may be admitted to Gulf Coast State College provided she/he meets the requirements for enrollment in the particular program and for continued attendance as set forth in this catalog.

ADMISSION FOR COLLEGE CREDIT

Credit courses are designed to apply toward a degree. Students who are seeking a degree must complete an application for admissions, request official high school, GED, and all previous college transcript(s) and take the placement test if necessary (see Traditional Placement and Flexible Placement opportunities). ACT and SAT scores may also be used for placement purposes provided the scores are two years old or less. Students are required to have their official test scores sent to the Testing Office on the main campus. First time students are required to meet with an academic advisor located in the Center for Advising & Success in Student Union West room 80 prior to registering for classes.

First Time in College Student

First Time in College Students must attend a mandatory orientation. Orientation is the opportunity for students to become acclimated to attending college. This includes Gulf Coast policies and procedures as well as resource information that will aid students in making informed decisions.

Students who meet one of the following requirements may enroll in Associate in Arts degree, Associate in Science degree, or certificate programs.

1. Students who graduated with a Standard High School Diploma or an equivalency diploma (GED).

2. Students who are home educated, with a signed affidavit submitted by the student's parent or legal guardian attesting that the student has completed a home education program pursuant to the requirements of Florida Statute 1002.41.

3. Students are provisionally admitted on the basis of their application. Confirmation of high school graduation must be officially verified within the student's first term of enrollment.

NOTE: Special diplomas and certificates of completion are not accepted for admission into degree or certificate programs.

ADMISSION FOR NON-CREDIT

Non-credit courses are designed to meet the needs of citizens in the community and students are not seeking a degree or a certificate. Enrollment in non-credit Continuing Education courses is restricted to those 18 years of age and older. Students are required to complete a non-credit registration form and register for courses. For more information, please contact Continuing Education Office at (850) 872-3823.

GENERAL ADMISSION PROCEDURES

(Degree Seeking and Transfer Students)
Admission to the AA, AS, or Certificate Programs.

Students applying for admission for the first time must complete the following steps:

1. Submit an application for admission to the Enrollment Services Office. Applications are available on-line at www.gulfcoast.edu.
    There is a $20 non-refundable application fee.
2. Submit an official high school and all college transcript(s) to the Enrollment Services Office.
    *   High school seniors must request their transcript with the official graduation date posted.
    *   GED recipients must request a copy of their GED test scores.
    *   Transfer students must request official transcripts from all colleges and or/universities attended.
3. Take the appropriate placement tests, if applicable. These tests are used for placement purposes only and are not to be used as instruments for selective admission.

    Traditional Placement

    Prospective students who entered the 9th grade in a Florida public school prior to 2003-2004, or graduated from a non-public Florida High School, or earned the GED qualify for **Traditional Placement** in English, reading, and mathematics. Traditional Placement requires that the student submit active scores on a college placement test (PERT, CPT, ACT, SAT) to the college to assist academic advisors in determining the student's readiness for college-level English, reading, and mathematics.

Flexible Placement

Prospective students who entered the 9th grade in a Florida public school in 2003-2004 or later and who earned a standard Florida high school diploma from a Florida public high school OR are serving as active duty members of the United States Armed Services qualify for **Flexible Placement**. Flexible Placement indicates that the student is not required to be tested or to enroll in developmental education. Students have the flexibility to opt into developmental education if they deem it appropriate after consultation with their academic advisor.

Transfer students who have satisfied English and Math requirements may not need placement testing. Students who meet the following criteria are exempt from placement testing:
- Non-degree seeking students. Note: The college placement test or unofficial transcripts may be required for students taking English or Math courses for the first time.
- Students who meet the **Flexible Placement** criteria as described above.
- Transfer students who present transcripts showing a grade of "C" or better in college-level English and/or Mathematics.
- Students with ACT or SAT scores at or above the state minimum that are less than two years old. Listed below are the **Traditional Placement** scores for College-Level Placement based on the ACT and SAT scores.

Enhanced ACT	SAT I
Reading = 19	Verbal/Critical
English = 17	Reading = 440
Mathematics = 19	Mathematics = 440

Incomplete information may cause a delay in admission to the College. Any student who fails to complete the admission process may not be permitted to register until all procedures are fully met. A student who has not been officially accepted in the College is not eligible for financial aid. No student is officially accepted into the College until all transcripts are on file. Official high school transcript, official GED scores, and college transcript from each institution attended must be submitted to the Enrollment Services Office. An official transcript is mailed from the high school and college directly to Gulf Coast State College. Hand carried transcripts are not official. All transcripts become part of the student's permanent record and may not be returned.

BACCALAUREATE PROGRAMS

GCSC offers two types of baccalaureate (4 year) degrees, the Bachelor of Applied Sciences (BAS) and the Bachelors of Science in Nursing (BSN).

Admission Requirements for the B.A.S. Programs

The following summarizes the requirements to be admitted into a B.A.S. program:
- Completion of admission application to Gulf Coast State College.
- Submission of official transcripts from high school(s) (or GED).
- Submission of official transcripts from college(s) currently or previously attended.
- Completion of all college preparatory coursework.
- Completion of a minimum of fifteen (15) semester hours of transferrable general education coursework.
- Cumulative grade point average of 2.00 on a 4.00 scale in all postsecondary coursework.
- Official transcripts showing one of the following:
  - Completion of an A.S. degree of sixty (60) credits from a regionally accredited institution in a technology-related discipline, **OR**
  - Completion of an A.A. degree of sixty (60) credits from a regionally accredited institution.

Admission Requirements for the B.S.N. (Bachelors of Science Nursing) Degree

The Bachelor of Science in Nursing (RN-BSN) is designed to prepare licensed nurses for evidence-based practice and leadership in an ever-changing health care environment. BSN Graduates will also have the opportunity to continue their

education in a variety of specialty areas.

Application requirements for the BSN are as follows: (The items below are listed only as a general guide. Students should obtain a current application packet for the complete listing of entry requirements.)

- Completion of an associate degree program or diploma program in nursing from an accredited nursing school or college.
- Completion of the GCSC baccalaureate degree application (new students) or change of program status (current students).
- Complete the health sciences division application for RN-BSN
- Provide documentation of current RN licensure with no restrictions (current license must be active in the state in which clinical rotations are to be completed).
- Provide official high school, vocational school & college transcripts
- Documentation of a grade point average (GPA) of 2.50 or higher in all college credit courses and a "C" or higher in all prerequisite courses applicable to the RN-BSN program.
- Completion of the standard Florida foreign language upper division admission requirement. If, at the time of admission, the student has not completed two consecutive years of the same foreign language in high school or eight credits in college, the student must complete eight credits of the same foreign language before completion the program.

Requirements after Conditional Acceptance:
1. Satisfactory fingerprint / criminal background check.
2. Copy of Valid CPR certification. Either the American Heart Association Health Care Provider Life Support Course or the American Red Cross CPR for the Professional Rescuer is acceptable.
3. Completion of physical examination (with satisfactory results), including copy of immunization form.
4. Satisfactory drug screening (may be required based upon the clinical agency requirements)
5. Current PPD or TB test or Declination with x-ray results.

Evaluating the Validity of High School Diplomas

Gulf Coast State College will verify the validity of a high school diploma if we believe that the diploma is not valid or was not obtained from an entity that provides secondary school education.

Gulf Coast State College will review the information gathered and will render a decision to accept or deny the high school diploma. The student will be notified in writing of the decision.

Readmission

Students who have not been enrolled at GCSC within the last 12 months must submit an application for admission to the Enrollment Services Office. Please have any official transcripts from all colleges/universities attended since the last term of enrollment sent to GCSC. The student will complete requirements for graduation under the catalog in force at the time of re-entry.

Admission of Non-High School Graduates

Individuals under the age of 18 without a standard high school diploma, GED, certificate of completion—CPT eligible or home school affidavit cannot be admitted. The exception is for students enrolled in one of the dual enrollment categories.

Individuals 18 years of age or older can enroll in advanced and professional, postsecondary vocational, and/or postsecondary adult vocational courses as non-degree seeking students (special students). Students cannot enroll in programs until they receive a high school diploma or GED. Students are encouraged to obtain a high school diploma or GED.

All non-high school graduates 18 years or older may enroll in certain PSAV programs with permission of the PSAV program manager. Non-high school graduates may also enroll in designated non-credit courses and GED preparation courses. The non-graduate must earn the diploma by the end of the first term of enrollment.

Special Student Admission

The Special Student admissions classification is designed for those students enrolling in credit classes without the high school diploma or its equivalent. The Special Student must be at least 18 years of age and not currently enrolled in a high school program. The Special Student is permitted to accumulate 15 credit hours in this status. The non-graduated Special Student will be encouraged to earn the GED diploma during the first term of enrollment in credit courses. After earning the GED diploma, the Special Student may request to change to degree-seeking status or continue as a non-degree seeking student.

Non-Degree Students

Applicants who do not wish to earn a degree or certificate from Gulf Coast State College and wish to take college or career and technical or vocational credit courses may not need to provide evidence of prior educational coursework. However, students seeking enrollment in courses with prerequisites or other admissions requirements, or students seeking financial assistance may be required to provide evidence of all prior educational course work. Many students attend college to upgrade employment skills, for transfer credit, or for personal interest and enjoyment. Non-degree applicants only need to provide a completed Application for Admissions. Students will not be permitted to enroll in any college credit English, humanities, or mathematics course – or any course having an English, mathematics or reading prerequisite – without meeting the State of Florida mandated minimum scores on an approved placement test or by producing evidence that they have met the prerequisite. Upon changing to degree-seeking status at Gulf Coast State College, high school/college transcripts, as appropriate, will be required.

Dual Enrollment Admission (High School)

Dual enrollment is authorized under Florida Statute 1007.271 as an articulated accelerated mechanism. It is intended to shorten the time necessary for students to complete the requirements associated with the conference of a degree, broaden the scope of curricular options available to students, and increase the depth of study available for a particular subject.

Dual enrollment provides the opportunity for qualified high school students to enroll in college-level work at Gulf Coast State College while concurrently enrolled in high school. Students receive both high school and college credit for these courses. This program is open to students from public high schools, accredited private schools, or approved home education programs. Students must have an unweighted GPA of 3.0 and demonstrate readiness for college coursework through scores on the college placement test to participate in college credit dual enrollment. Participation in vocational dual enrollment requires a 2.0 unweighted GPA.

A student may take dual enrollment courses during school hours, after school hours, and during the summer term. Students in dual enrollment classes do not pay registration, matriculation, or lab fees. For additional information, please call (850) 747-3207. Dual enrolled students wishing to continue their education at GCSC must apply as a new student, register, and pay fees as a regular student.

Early-Out Student Admission

Students designated as early-out graduates (meet all high school graduation requirements early) can register at GCSC as a non-degree seeking student. Early-out students are required to meet all GCSC admissions requirements and upon admission must provide a letter from their high school counselor stating the student has met all graduation requirements and giving permission to register early. Early-out students are required to pay their own fees. The official high school transcript is required when the standard high school diploma is posted.

Limited-Access Program Admission

In order to meet certification and professional accreditation standards, certain GCSC programs carry additional admission and graduation requirements. Please see specific limited access program in the catalog for additional admission requirements or you can contact the appropriate department for details.

Transfer Student Admission

A student who has attended another college or university is considered a transfer student. Transcripts from high school and all institutions of higher education previously attended for students enrolled in Associate in Arts degrees, Associates in Science degrees, Associates in Applied Science degrees, Bachelor degrees, and certificate programs are required. Official transcripts from all previously attended schools are to be sent directly to the Office of Enrollment Services. Hand carried transcripts or transcripts marked "issued to student" will not be accepted. Freshman and sophomore credits will be accepted if earned at colleges or universities fully accredited by one of the six regional accrediting associations (Southern Association of Colleges and Schools, for example) provided the courses meet academic standards and are relevant to the college's instructional program. Transfer courses from regionally accredited institutions will be evaluated and placed on the student's GCSC transcript.

Students enrolled in postsecondary adult vocational (PSAV) certificate programs are required to request transcripts from high and institutions of higher education. Students enrolled in PSAV certificate programs who request a transfer course be accepted are required to submit official transcripts from all previously attended schools. Credit from vocational and occupational institutions will be awarded provided the credits meet academic standards and are relevant to the college's instructional program.

Credit is allowed for Associate in Science degrees or certificate programs by means of occupational-technical articulation agreements as outlined in the Florida Department of Education Statewide Articulation Agreements. Students are required to submit official transcripts of occupational-technical course work for consideration. Upon receipt of official copies of occupational-technical course work, an evaluation package is prepared for the chairperson of the discipline for final approval. Occupational-technical coursework is reviewed by the relevant department chairperson for equivalency and must meet the admissions requirements as well as satisfy the required validation mechanisms as outlined in the specific program's articulation agreement as stated by the Florida Department of Education. Appropriate documentation supporting evidence of credit must be submitted to Enrollment Services for processing. Specific credit is awarded to students meeting all of the above stated requirements as recommended by the Florida Department of Education.

Credits with "P" or "S" grades from Florida public institutions are considered transferable. No credit is awarded for "P" grades, "S" grades, or remedial courses taken outside the state of Florida.

To maintain degree-seeking status, students are required to have transcripts evaluated no later than the end of the first academic term of enrollment. A student will be placed on registration restriction if transcripts are not received within thirty days from the beginning of the term. A transcript evaluation will be performed for degree-seeking students once all transcripts have been received by the Office of Enrollment Services. The evaluation process is normally completed within six weeks of transcript receipt. Students can view their evaluated transcript at www.gulfcoast.edu.
All transfer students are required to satisfy the Gulf Coast residency graduation requirement by completing 25 percent of the degree program at GCSC.

The Office of Enrollment Services has the institutional authority to administer the college's transfer policy. Actions taken by the Office of Enrollment Services are subject to review by the Vice President of Academic Affairs.

Transfer from a Non-Regionally Accredited Institution

Students who attended non-regionally accredited institutions will be notified by mail. Credit from non-regionally accredited institutions may be awarded on an individual basis provided the credits meet academic standards and are relevant to the college's instructional program. Students must submit course syllabi and faculty credentials for evaluation to division chairs for courses under consideration for transfer credit. Submission of documentation does not imply credit acceptance. The documentation provides GCSC with the information necessary to determine whether the courses taken will meet the criteria for acceptance. Students may be asked to provide further information in order to make an educated decision within the parameters established by our accrediting agency. Students who wish to pursue the

acceptance of transfer credit from a non-regionally accredited institution should consult with the Office of Enrollment Services with any questions regarding the procedures for seeking transferability of courses.

Transferring to GCSC with a Bachelor's Degree

Students transferring to GCSC with a Bachelor's degree or higher and who wish to pursue an Associate in Science degree, or certificate must verify previous degrees by submitting high school and all college official transcripts. Once all documents have been received, an evaluation package from the Office of Enrollment Services will be forwarded to the relevant academic division for a program evaluation.

The program manager will determine if there is any prior credit applicable to the student's current degree program. Only courses with a grade of "C" or better will be accepted

The student's cumulative grade point average for the degree will include only those courses completed at GCSC.

Transient Student Admission

Students pursuing degrees at other colleges or universities may be admitted as transient students to take courses back to their home institutions. A transient student form from the home institution or some other written authorization is required indicating the specific course(s) to be taken and the parent institution's willingness to accept the credits earned. The transient form or written authorization is required prior to registration. Transient students are considered non-degree seeking students; therefore, official transcripts are not required. The transient student form creates the application if done through the Florida Virtual Campus (www.flvc.org) for students coming from Florida public colleges and universities. Transients from out-of-state and private institutions should provide a transient letter/form as well as file an application for admission to GCSC along with a $20 non-refundable application fee.

International Student Admission

Students requiring the F-1 Student Visa, including those who are transferring their F-1 Student Visa from another U.S. institution, must meet the following admission requirements. You can find the required forms at www.gulfcoast.edu/international/default.htm.

(This information is for International Students only. If you are a **Permanent Resident Alien, please follow the standard application process.)

- **International Student Admission Application:** An admissions application, including a $40 non-refundable application fee, and all required documents must be received before an I-20 can be issued. Your permanent foreign address is required. Students must have completed secondary school (high school).

- **TOEFL-Test of English as a Foreign Language:** Students from non-English speaking countries are required to submit an official TOEFL (Test of English as a Foreign Language) score report with achieved **minimum** total scores as listed below. Visit www.ets.org for testing details.

    ➢ 79 on the Internet-based test
    ➢ 213 on the Computer-based test
    ➢ 550 on the paper-based test

- **Financial Statement of Responsibility:** Students must be able to bear the cost of study and living expenses. A Statement of Financial Responsibility must be completed and notarized. An official bank statement with funds available to you in excess of $15,000 (US currency) must be attached to the Statement of Financial Responsibility. Students should know that $15,000 is needed each year to cover living expenses, tuition and fees. The college assumes no responsibility for financial assistance.

- **Foreign Transcripts**: Transcripts from foreign institutions must be evaluated by World Education Services (WES). Visit www.wes.org for more details. It is the responsibility of the student to bear all associated costs and fees.

Gulf Coast State College (GCSC) will determine transferable credits. If the academic institution you attended does not issue documents in English, you must submit precise word for word translations of all your credentials. To have your documents translated, you may contact University Language Services at www.alsintl.com/university.htm.

> - **High school graduates only:** please submit your original high school transcript to WES for evaluation.
> - **University students:** Please submit university original transcripts to WES for evaluation. High school documents are also required. Acceptance of transfer courses is subject to approval by GCSC.

Housing: On campus housing is not available at GCSC; international students are responsible for making their own housing arrangements. For more info, please visit www.gulfcoast.edu/international/default.htm.

Health Insurance: Submit proof of health insurance coverage valid in the U.S. Insurance must be maintained while attending GCSC. Upon the completion of all admissions requirements, a Certificate of Eligibility (form I-20) will be issued to the student. The US Citizenship and Immigration Services (USCIS) will be notified of the student's admission to GCSC.

International students must register as a full-time student taking a minimum of 12 credit hours during the fall and spring semesters and remain a full-time student in order to maintain status.

Please note: Off-campus employment **is not** permitted **unless** first approved by USCIS. Please see the International Student Representative for approval and procedures for on-campus employment.

For additional assistance, please call (850) 913-3282 or (800) 311-3685 ext. 3282, or visit our website at www.gulfcoast.edu/international/default.htm.

Denial of Admission

In accordance with Florida Statute 1001.64(8) (a), Gulf Coast State College may consider the past actions of any person applying for admission or enrollment and may deny admission or enrollment to an applicant because of misconduct if determined to be in the best interest of the college. Gulf Coast State College reserves the right to refuse admission or re-enrollment, or place conditions on admission or re-enrollment of applicants and students, who Gulf Coast State College determines would be disruptive of the orderly process of the college's programs, which would interfere with the rights and privileges of other students or employees, and/or represent a safety risk to Gulf Coast students, employees or property. Applicants/students have the right to appeal any decision to the Appeals Committee within seven calendar days of the date of notice.

Audit Student

Students who plan to take a course as audit must meet GCSC admission and course placement requirements. Audit students must declare the audit status prior to the end of the published add/drop period by completing an "audit request" form at any Enrollment Services Office. Audit students are assessed all applicable fees.

Florida Residency for Tuition Purposes

Section 1009.21, Florida Statutes (F.S.), allows a U.S. citizen, lawful permanent resident or alien lawfully in the United States who is in an eligible visa category to be classified as a Florida resident for tuition purposes if the applicant or the dependent applicant's parent/legal guardian has established legal residence in the state for at least 12 consecutive months immediately prior to the first day of classes of the term for which Florida residency is sought.

The determination of dependent or independent status is important because it is the basis for whether the student has to submit his/her own documentation of residency (as an independent) or his/her parent's or legal guardian's documentation of residency (as a dependent).

Definitions

1. **Dependent student**: any person, whether or not living with his/her parent, who is eligible to be claimed by his/her parent as a dependent under the federal income tax code or who is not deemed independent for federal financial aid purposes.
2. I**ndependent student**: a student who meets any one of the following criteria:
   - Is married
   - Is 24 years of age or older by the first day of classes of the term for which residency status is sought at a Florida institution
   - Has children who receive more than half of their support from the student
   - Has other dependents that live with and receive more than half of their support from the student
   - Is a veteran of the U.S. Armed Forces or is currently
   - Serving on active duty in the U.S. Armed Forces for purposes other than training
   - Both parents are deceased or the student is or was (until age 18) one of the following: (a) a ward/dependent of the court or (b) in foster care
   - Is determined an unaccompanied homeless student by a school district homeless liaison, emergency shelter or transitional housing program
3. **Independent student (under 24):** a student who is under the age of 24 and wishes to be considered independent must, for the term residency is sought; provide additional written or electronic verification of possession beyond the standard Tier 1 and Tier 2 documents. The following are examples of documents that must be provided:
   - Marriage certificate, insurance information showing marital status or most recent tax return showing marital status
   - Tax returns showing support of children or other dependents that live with and receive more than half of their support from the student
   - Military discharge documents
   - Legal documents showing the student is a ward/dependent of the courts
   - Documentation showing that the student provides more than 50 percent of his/her support for the year (Examples of acceptable documentation may include a copy of most recent tax return showing a minimum of $6,500 annual income [amount subject to change based on federal regulations], W-2 form, pay stubs or employer earnings verification.)
4. **Initial enrollment:** the first day of class of the student's first term at an institution of higher education.
5. **Legal resident or resident:** a person who has maintained his/her residence in Florida for the preceding 12 months, has purchased a home which is occupied by him/her as his/her residence, or has established a domicile in Florida pursuant to s. 222.17, F.S.
6. **Non-resident for tuition purposes:** a person who does not qualify for the in-state tuition rate.
7. **Parent:** Either or both parents of a student, any guardian of a student, stepparent, or any person in a parental relationship to the student.
8. **Resident for tuition purposes:** a person who qualifies as provided in this section for the in-state tuition rate.

Required Documentary Evidence

If an applicant (student) qualifies for a residency exception or qualification, then appropriate documentation must be submitted as evidence of entitlement to that exception or qualification. Such evidence is generally specific to the type of residency exception or qualification being claimed by the student.

If an applicant (student) does not qualify for a residency exception or qualification, he/she will have to submit documentation that he/she (or a parent or legal guardian, if a dependent) has been a Florida resident for at least 12 consecutive months prior to the first day of classes for which the student is enrolling. At least two of the following documents must be submitted, with dates that evidence the 12 consecutive month qualifying period. At least one of the documents must be from the First Tier. As some evidence is more persuasive than others, more than two may be requested. No single piece of documentation will be considered conclusive.

First Tier *(at least one of the two documents submitted must be from this list):*
   - A Florida driver license
   - A State of Florida identification card
   - A Florida voter registration card
   - A Florida vehicle registration

- Proof of permanent home in Florida that is occupied as a primary residence by the individual or by the individual's parent if the individual is a dependent child
- Proof of homestead exemption in Florida
- Transcripts from a Florida high school for multiple years (two or more years) if the Florida high school diploma or GED was earned within the last 12 months
- Proof of permanent full-time employment in Florida for at least 30 hours per week for a consecutive 12-month period

Second Tier *(may be used in conjunction with documentation from First Tier):*
- A declaration of domicile in Florida
- A Florida professional or occupational license
- Florida incorporation
- A document evidencing family ties in Florida
- Proof of membership in a Florida-based charitable or professional organization
- Any other documentation that supports the student's request for resident status, including, but not limited to, utility bills and proof of 12 consecutive months of payments; a lease agreement and proof of 12 consecutive months of payments; or an official state, federal or court document evidencing legal ties to Florida.

Statutory Exceptions and Qualifications
Section 1009.21, Florida Statutes (F.S.), permits certain
applicants who do not meet residency requirements to be classified as Florida residents for tuition purposes.

- If a dependent person who has been residing continuously with a legal resident adult relative other than the parent for at least three years immediately before the first day of classes of the term for which Florida residency is sought, the dependent child may provide documentation from the adult relative or from the parent. Both the dependent child and the adult relative or the parent must meet the consecutive 12 month legal residence requirement [s.1009.21(2) (b), F.S.].

  A dependent child who is a United States citizen may not be denied classification as a resident for tuition purposes based solely upon the immigration status of his/her parents. The claimant must provide documentation that he or she has resided in the state at least 12 consecutive months immediately before the child's initial enrollment.

Based on section 1009.21, F.S., the College requires documentation in support of the following exceptions; however, the student does not have to show 12 months of residence in Florida prior to qualifying. These exceptions and qualifications categories are as follows:

- Persons who were enrolled as Florida residents for tuition purposes at a Florida public institution of higher education, but who abandoned Florida domicile and then re-enroll in Florida within 12 months of the abandonment – provided that the person continuously maintains the re-established domicile during the period of enrollment. (This benefit only applies one time.) [s.1009.21(9), F.S.]
- Active duty members of the Armed Services of the United States residing or stationed in Florida, their spouses and dependent children; active, drilling members of the Florida National Guard; or military personnel not stationed in Florida whose home of record or state of legal residence certificate, DD2058, is Florida [s. 1009.21(10) (a), F.S.] (Required: copy of military orders or Form DD 2258)
- Active duty members of the Armed Services of the United States, their spouses and dependent children, attending a public college or university within 50 miles of the military establishment where they are stationed, if that establishment is within a county contiguous to Florida [s. 1009.21 (10)(b), F.S.] (Required: copy of military orders)
- United States citizens who are living on the Isthmus of Panama, who have completed 12 consecutive months of college work at the Florida State University Panama Canal Branch, and their spouses and dependent children [s. 1009.21(10)(c), F.S.]
- Full-time instructional and administrative personnel employed by the State public school system and institutions of higher education as defined in s. 1009.21(c) and their spouses or dependent children [s. 1009.21(10)(d), F.S.] (Required: copy of employment verification)
- Students from Latin American and the Caribbean who receive scholarships from the federal or state government. The student must attend, on a full-time basis, a Florida institution of higher education [s. 1009.21(10) (e), F.S.] (Required: copy of scholarship papers)

- Full-time employees of state agencies or political subdivisions of the state when the student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training [s.1009.21 (10)(g) (Required: copy of employment verification)
- Active duty members of the Canadian military residing or stationed in Florida under the North American Air Defense (NORAD) Agreement, and their spouses and dependent children, attending a public community college or state university within 50 miles of the military establishment where they are stationed [s. 1009.21(10)(j)]
- Active duty members of a foreign nation's military who are serving as liaison officers and are residing or stationed in Florida, and their spouses and children, and attending a public community college or state university within 50 miles of the military establishment where the member is stationed [s. 1009.21(10), F.S.]
- Qualified beneficiaries under the Stanley G. Tate Florida Prepaid College Program [s.1009.98, F.S.] (Required: copy of Florida Prepaid Program ID card)
- A dependent child who has lived with an adult relative, who is not a parent or legal guardian, for at least the four years preceding the first day of class for the term of enrollment
- Persons who were enrolled as a Florida resident at a state institution of higher learning but who abandon Florida residency for less than one year

In addition to the Florida Statute exceptions, Florida Administrative Code Rule 6A-10.044(1)(a) provides classification as a Florida resident for tuition purposes for a dependent student who attended a Florida high school for a minimum of two (2) academic years immediately preceding his or her initial enrollment at GCSC and who graduated from a Florida high school or earned a Florida GED® within the last twelve (12) months. For this exception, the student's high school transcript or their GED® transcript is one evidence of Florida residency, and at least one (1) additional document identified in F.S. Sect.1009.21(3)(c)1. or 1009.21(3)(c)2., F.S., must be presented evidencing parental legal residence.

Residency Reclassification

An individual who is classified as out-of-state and wants to request "reclassification" to in-state status must complete a Request for Residency Reclassification form from the Enrollment Services Office or download the form from the Admissions webpage at www.gulfcoast.edu. The completed Request for Residency Reclassification form and supporting documentation must be submitted to Enrollment Services for consideration prior to the term for which reclassification is sought.

The evidentiary requirement for reclassification goes beyond that for an initial classification, because the student has previously been determined to be an out-of-state resident. A student who is initially classified as a nonresident for tuition purposes may become eligible for reclassification as a resident for tuition purposes only if the student or his/her parent if the student is a dependent, present clear and convincing documentation that supports permanent legal residency in Florida for 12 consecutive months. A student, or his/her parent if the student is a dependent, may become eligible for reclassification by presenting a minimum of three documents as listed in the Required Documentary Evidence section. One of the three documents must come from the First Tier.

The burden of providing clear and convincing documentation justifying reclassification of a student as a resident for tuition purposes rests with the student, or if the student is a dependent, his/her parent. For documentation to be "clear and convincing," it must be credible, trustworthy and sufficient to persuade Enrollment Services staff that the student or, if the student is a dependent, his/her parent has established legal residency in Florida that is not solely for the purpose of pursuing an education and has relinquished residency in any other state for a minimum of 12 consecutive months prior to classification.

Residency Appeals

A student who is denied Florida residency for tuition purposes on request for residency reclassification may appeal the decision through a written petition to the Residency Appeal Committee in the Enrollment Services. The burden of providing clear and convincing documentation justifying reclassification of a student as a resident for tuition purposes rests with the student or, if the student is a dependent, his/her parent.

The Residency Appeal Committee must render to the student the final residency determination in writing, advising the student of the reasons for the determination. The decision of the Residency Appeal Committee will constitute final action.

ALTERNATIVE SCHEDULING OPPORTUNITIES

Between work and family, most of us have extremely busy schedules. Recognizing that flexible scheduling is important, Gulf Coast addresses these individual student needs by providing multiple scheduling opportunities.

- E-Learning/Distance Education Hybrid Classes (a combination of online and/or distance education with some in-class, face to face meetings)
- Evening Only
- Friday Only

E-Learning: If you're looking for online or Web-based classes, look no further. What was once known as "distance education" has evolved to "E-Learning" at GCSC. These classes are offered in part, or entirely, online. In fact, entire degrees can be achieved through E-Learning at Gulf Coast State College. Each semester, we offer more than 150 sections of courses online. The E-Learning Department is your connection to the most accessible courses on campus, and beyond.

Details for each online course can be found at http://www.gulfcoast.edu/ecampus. Visit this Web site or call, (850)769 1551 ext. 3268. We'll be happy to get started or find your way further toward your degree goals.

Military Services Program

Gulf Coast offers on-site classes at Tyndall Air Force Base. These classes are also open to the civilian population. Civilian students must contact GCSC Tyndall Office at 283-4332 to secure access to the military base prior to registration.

Aside from stated and traditional means of obtaining credit, special policies, procedures and services are available to active-duty personnel.

The college follows the recommendations of the American Council on Education concerning credit awarded for the successful completion of military service schools and training programs. Division chairs determine whether or not military credits apply to specific programs.

Official copies of appropriate military transcripts and/or documentation are required to award applicable credit.

- Credit must be applicable to the student's current degree program.
- Gulf Coast must offer a course comparable in content and credit value.

It should be noted that most credits apply to the Associate in Science degree programs. For additional information visit the college website (www.gulfcoast.edu) and click on the **TAFB Center option.**

Sites

In addition to course and program offerings at the main campus of Gulf Coast State College in Panama City, the college maintains additional sites at Tyndall Air Force Base Education Center, the North Bay Center, including the Charles H. Abbott Criminal Justice Training Academy, and the Gulf/Franklin Center in Port St. Joe. Information on course offerings at these sites can be obtained from the schedule of classes for each term and through brochures and press releases.

Cooperative Education

Cooperative Education (Co-op) is a supervised, practical work experiences that seek to combine theories and practice in the students' major field of study. The student may be working in appropriate businesses, industries, government agencies or institutions, including educational institution, can enroll in Co-op and earn college credits and gain practical knowledge at the same time. The class is designed to maximize the students' learning and apply practical skill and learned theories to projects in their field of studies.

Co-op classes have two main parts, one class work and one practical job/work related. The class work utilizes Angel (the Learning Management System at Gulf Coast State College and thus saving time and energy).

Co-op courses may be taken toward the completion of most of the Associate of Arts and Associates of Science degree programs as well as can be used as electives in some cases. Students wishing to register in a Co-op class must contact and meet with Ms. Kimberly Hoyt to insure registering in the appropriate class.

Ms. Hoyt is in Advanced Technology Center 151A and she can be reached at 850-872-3874 or by email at khoyt@gulfcoast.edu.

FINANCIAL INFORMATION

Student Expense

Registration will not be officially completed until **all** fees are paid in full by the dates identified in the college calendar. Students are responsible for all fees for courses not dropped by the student during the drop/add period.

Fee Changes

Fees are subject to change by the Florida Legislature and the District Board of Trustees. Current fees are available in the Enrollment Services Office. Fees listed below are for the 2015-2016 academic year.

RESIDENT

PER A&P, PSV, COLLEGE PREP, and EPI CREDIT HOUR:

Tuition	$72.92
Student Activity Fee	7.29
Capital Improvement Fee	7.29
Financial Aid Fee	3.65
Technology Fee	3.65
Total, Per Credit Hour	94.80
Access Fee	3.95
Total, Per Credit Hour	**$98.75**

UPPER DIVISION (BACHELOR COURSES) : PER A&P HOUR:

Tuition	$87.42
Student Activity Fee	8.74
Capital Improvement Fee	8.74
Financial Aid Fee	4.37
Technology Fee	4.37
Total, Per Credit Hour	113.64
Access Fee	3.95
Total, Per Credit Hour	**$117.59**

PER PSAV CREDIT HOUR:

Tuition	**$69.93**
Capital Improvement Fee	3.50
Financial Aid Fee	6.99
Technology Fee	3.50
Total, Per PSAV Hour	83.92
Access Fee	3.95
Total, Per PSAV Hour	**$87.87**

NON-RESIDENT

PER A&P, PSV, COLLEGE PREP and EPI CREDIT HOUR:

Tuition (resident portion)	$72.92
Tuition (non-resident portion)	221.42
Student Activity Fee	7.29
Capital Improvement Fee	24.69
Financial Aid Fee	14.72

Technology Fee	14.72
Total, Per Credit Hour	355.76
Access Fee	3.95
Total, Per Credit Hour	**$359.71**

UPPER DIVISION (BACHELOR COURSES) : PER A&P HOUR:	
Tuition (resident portion)	$87.42
Tuition (non-resident portion)	436.86
Student Activity Fee	8.74
Capital Improvement Fee	34.95
Financial Aid Fee	26.21
Technology Fee	26.21
Total, Per Credit Hour	620.39
Access Fee	3.95
Total, Per Credit Hour	**$624.34**

PER PSAV CREDIT HOUR:	
Tuition (resident portion)	$69.93
Tuition (non-resident)	209.79
Capital Improvement Fee	13.99
Financial Aid Fee	27.97
Technology Fee	13.99
Total, Per PSAV Hour	335.67
Access Fee	3.95
Total, Per PSAV Hour	**$339.62**

Application Fee (non-refundable) $20.00
International student Application Fee $40.00
Returning Student Application Fee $10.00

Transcript Fee $5.00
Computerized placement testing (CPT) $5.00
CLEP tests (each)...$80.00
Testing for academic correspondence
courses... $20.00

(Testing will be administered through the testing office and will be scheduled during the regular workday. The fee to cover administrative costs is payable at the Gulf Coast State College Business Office.)

An additional fee will be charged for courses offered through E-Learning. Certain courses carry additional fees (see "Course Descriptions").

Fees for Non-Credit Activities

Fees are established for non-credit courses in keeping with Florida statutes. A complete description of fees set for non-credit activities can be found in the college policy manual.

Refund Policy for Credit Classes

Students are responsible for all fees for courses not dropped by the student during the published drop/add period. Refunds result from 1) classes dropped by the student by the end of the published scheduled drop/add period for each term; 2) classes dropped prior to the first day of class for courses that do not begin during the scheduled drop/add period; and 3) for classes that are cancelled by the college. A refund of fees paid will be given if the proper procedures are followed. Refund checks are mailed within two weeks after the end of the published drop/add period each term.

A drop is different from a withdrawal. A drop will result in the elimination of the class(es) from the transcript record. A dropped class does not affect the standards of academic progress; however it may affect the amount of financial aid awarded. A withdrawal will result in a letter grade of "W" in each class from which the student withdraws; withdrawals are included in the calculation of academic progress.

Procedures for Requesting a Refund <u>after</u> the Drop/Add Period

A student who discontinues enrollment after the published drop/add period may be granted a refund if proper procedures are followed. Procedures for requesting a refund are:

1. Contact the office of the Vice President of Student Affairs to secure a *Request to Drop Form*.

2. Complete the *Request to Drop Form* and attach supporting documentation (military orders, physician's letter, etc.). Incomplete submissions will not be considered.

3. Submit all paperwork within **six weeks** of the end of the term in which enrollment is discontinued. **NO SUBMISSIONS WILL BE CONSIDERED AFTER THE SIX WEEK PERIOD.**

Supporting documentation **must** include one of the following:
- Written documentation of call to or enlistment in active military duty or change of military station.
- Death of the student or member of student's immediate family (parent, spouse, child, sibling).
- Illness of the student or of a dependent person of such severity or duration, as confirmed in writing by a physician, that completion of the semester is precluded.
- Documented administrative error by college.

Refund requests must have supporting documentation to be considered.

Refund Policy for Non-Credit Activities

The drop/add period for registration of non-credit classes is class-specific and, therefore, not dependent upon traditional academic terms or semesters. The refund process is initiated in writing by the student through the Continuing Education Office.

A full refund will be granted when requested by 4 p.m. three work days prior to the first day of class. After this date, refunds will not be granted. All refunds are issued by check in the name of the student registered and mailed to the student's address listed on the registration form.

Online classes are not refundable once the student's registration has been processed.

Documented extraordinary situations will be considered on an individual basis by the Appeals Committee.

STUDENT FINANCIAL AID

Gulf Coast offers a variety of financial assistance for students. Students may apply based on financial need or merit. Financial assistance may be awarded from one or any combination of federal and state grants; part-time employment; institutional, state, and private scholarships; and student loans. Information and applications are available on the college website at www.gulfcoast.edu or contact the GCSC Financial Aid Office in the Enrollment Services Building.

Students should check their official Gulf Coast student email for Financial Aid correspondence.

Each semester, students on financial aid should take the following steps when registering for classes:
1) Verify on Lighthouse or in Enrollment Services that your major is correct
2) Verify your contact information is correct
3) Do a degree evaluation to see what courses you have left to graduate
4) Only register for classes needed for your major

5) Register for all classes you plan on taking that semester even if they don't start until a later session. If you add it later, it may not count towards your FA eligibility
6) Check your bill on Lighthouse and make sure all of your charges are paid by the published due date
7) If you decide you don't want to take a class, make sure you drop it during the add/drop period

Financial Aid Programs

Federal Pell Grant: Grant funds are designed to assist students with financial need. Eligibility is determined by student and/or family financial status and is based on information provided on the Free Application for Federal Student Aid (FAFSA). A need analysis determination is performed by the U.S. Department of Education and the results are reported to the school and the student. Interested students may apply at www.fafsa.gov. Awards are based on student and/or family prior year income from the federal income tax form. Award amounts are based on the number of hours enrolled each semester. Costs of tuition, books, and miscellaneous educational expenses may be covered by the Pell grant. ***Students must reapply each year when tax forms are filed.***

Supplemental Educational Opportunity Grant (SEOG): A supplement to Pell eligible students who meet the priority consideration deadline of May 15. Students must have maximum eligibility for Pell (Expected Family Contribution equals zero) and must enroll in a minimum of six credit hours per semester.

Florida Student Assistance Grant: A Florida grant for students who show exceptional need as determined by information provided on the Free Application for Federal Student Aid (FAFSA) and who meet the May 15 priority consideration deadline. Other eligibility criteria include:

- Florida resident as determined by Admissions and Records.
- Enrolled in at least six (6) semester hours in an associate's or bachelor's degree program each semester.
- Prior recipients must have successfully completed the number of semester hours for which they were awarded and maintained a cumulative GPA of 2.0 or higher.

Florida Student Assistance Grant-Certificate Education (FSAG-CE): A Florida grant program for students pursuing a certificate. To be eligible, students must be at least half-time, must complete the FAFSA application, and meet other state and college requirements. A limited number of grants will be awarded. For more specific eligibility information, contact the Financial Aid Office.

Federal Work-Study: Federal funds provided to students for part-time jobs on and off campus. Students must apply using the Free Application for Federal Student Aid (FAFSA) at www.fafsa.gov. Participants must have unmet need as determined by the students' cost of attendance, EFC, and other aid awarded. Contact the financial aid office for more information.

Florida Bright Futures Scholarship Program: A Florida scholarship program awarded to high school students who meet the academic requirements. Students must apply online prior to graduating high school. Bright Futures pays a portion of a student's tuition. Students need to make sure any unpaid balances are paid by the due date. Students are responsible for repaying Bright Futures funds for withdrawn classes. Students withdrawn due to illness or emergency should contact the Financial Aid office about the appeal process. The deadline to appeal is 45 days from the end of the effected term. Bright Futures recipients should consult the GCSC website at http://www.gulfcoast.edu/finance_assist, click on **Bright Futures**. Current information on Bright Futures scholarship requirements, student eligibility, and renewal requirements is available at www.floridastudentfinancialaid.org. Students who fail to meet renewal requirements due to illness or emergency can contact the Financial Aid office about an appeal. The deadline to appeal is 45 days from the last day of the spring semester.

Florida First Generation Matching Grant (FGMG): Jointly funded by GCSC Foundation and the Florida Department of Education, this grant provides assistance to low-income Florida residents who are the first in their family to attend college. Recipients must be enrolled in at least 6 credit hours and must have financial need as determined by the FAFSA. To apply, students need to complete the FAFSA application prior to the May 15 priority deadline. Award information will appear on Lighthouse for those awarded.

Gulf Coast State College Foundation Scholarships: GCSC Foundation Scholarship opportunities are open to all students attending or planning to attend Gulf Coast State College. Application period traditionally begins January 1 and ends March 1. Applicants must have a cumulative GPA of 2.0 or higher and a valid GCSC student ID number. All interested parties must visit the Foundation's STARS Online scholarship website and set up a student account. The web address is www.gcscfoundation.org/scholarships. Foundation scholarships are not meant to cover 100% of a student's educational cost. Awards are only intended to supplement a student's education needs. Foundation scholarships can also be used in conjunction with federal and state grants, Bright Futures, College Prepaid programs, and other scholarship awards. Foundation scholarships are awarded for one academic year only (fall and spring semesters) and recipients must reapply each year unless otherwise noted.

State of Florida Employee Fee Waiver: Per Section 1009.265, Florida Statutes, GCSC will waive tuition for state employees to enroll for up to (6) six credit hours of courses per term on a space-available basis. State employees are eligible for registration for courses during the college's published drop/add period. Waivers will not apply to any course registrations made prior to the college's published drop/add period. State employees must complete all admissions requirements, including the application for admission, placement testing, transcripts, and proof of prerequisites. After registration, state employees must present the State Employee Waiver Intent to apply and Agency Authorization Form to the Business Office for fee payment.

Federal Direct Stafford Loans: Funds available to eligible students to borrow for educational expenses. Students may use the funds now and delay repayment until they graduate or stop attending at least half-time. Interested students must complete the Free Application for Federal Student Aid (FAFSA) to determine need, complete entrance counseling, the master promissory note, and loan request form. Students may qualify for subsidized or unsubsidized based on their eligibility from the FAFSA and unmet need. Students may borrow subsidized loans for only 150% of the length of time required to complete their chosen program of study.

To qualify, applicants must have a 2.0 overall GPA and a 67% completion rate for all post-secondary courses attempted. The 3 step loan application process is located on the GCSC website at www.gulfcoast.edu and click on **Financial Assistance**. All steps must be complete before processing can begin.

Parent Loan Program (PLUS): Loan funds are available only to parents of undergraduate students and are based on the credit worthiness of the parent. Dependent undergraduate students may apply for additional unsubsidized funds only after the PLUS loan is denied.

Short Term Emergency Loans: GCSC emergency loans are issued by the GCSC financial aid office and are available to pay 80% of tuition and fees up to a maximum of $800. Loans are not credit based, but do require a reference. Loans must be repaid within 60 days from the beginning of the semester in a 16 week semester. In a session B or C term that lasts 10 weeks or less, loans are due within 30 days from the beginning of that session. Late fees will be assessed and holds will be placed on the transcript and registration for failure to repay the loan by the due date. Contact the financial aid office for more information. ***Loan funds are borrowed and must be repaid***.

Applying for Financial Aid

Applications for financial aid should be filed as early as possible for the following academic year. Applicants should apply online at www.fafsa.gov as early as possible after completion of income tax forms no later than May 15. This is a free application! If you are asked for a credit card number or to pay a fee, you are on the wrong website.

Failure to provide accurate information will cause unnecessary delays in the evaluation of the student's eligibility.

Students planning to use financial aid to pay tuition must have complete files by:

July 1 for fall
November 1 for spring

General Eligibility Requirements

All financial aid is dependent upon the availability of federal, state, and institutional resources. To be eligible for aid at GCSC, a student must:

- Have a high school diploma or GED certificate.
- All high school and college transcripts must be received and evaluated by the Enrollment Services Office.
- Declare an eligible major prior to the end of the drop/add period for the current semester.
- Federal financial aid will only be used for classes required in an eligible major.
- Enroll at least half-time. (Some Pell students may qualify at less than 6 hours.)
- Be a citizen or eligible non-citizen.
- Not owe a refund or repayment on a federal grant at any institution.
- Not be in default on a federal student loan.
- Maintain Satisfactory Academic Progress (FASAP) standards as listed below.

Financial Aid Satisfactory Academic Progress (FASAP)

The FASAP policy can be found at http://www.gulfcoast.edu/finance_assist/student_responsibility.htm.

At the end of each semester, every financial aid recipient will have their academic progress evaluated. If the student has not met the required standards for GPA and completion rate at the end of that semester, they will be placed on Financial Aid Warning for one semester. The student will remain eligible for one semester. If that student is still not meeting the minimum academic standards, they will be placed on financial aid suspension and they will not be eligible for federal financial aid. Their Financial Aid will continue to be suspended until they return to FASAP (see standards below).

Note: Students in the Educator Preparation Institute (EPI) will be evaluated based on credits taken in that program.

Required Standards

Students receiving financial assistance must maintain minimum standards in three categories: Grade Point Average (GPA), completion rate, and maximum time frame. These are evaluated cumulatively, meaning that every college credit attempted, including transfer credits, will be included in the evaluation.

- Students must meet the following cumulative GPA depending on the total number of credit hours attempted:

Total Credit Hours Attempted	Required Minimum Cumulative GPA
1 to 14	1.50
15 to 29	1.75
30 or more	2.00

- GPA calculation for FASAP includes all institutional and transfer coursework, including developmental.
- Students must complete at least 67% of all credits attempted. The following grades are considered to be completions: A, B, C, D, and P. The following grades are considered incomplete: F, I, W, X, S, NS, and U.
- Students who have attempted 150% of the number of credit hours required for their degree or certificate program are considered to be over their maximum time frame and are not making FASAP. Changes in program of study do not extend eligibility beyond the 150% credit hour maximum time frame.

Appeals Process and Reinstatement

A student who loses eligibility for financial aid has an opportunity to appeal. In order to appeal, a student must complete an appeal form and attach all items listed on that form including a written explanation, supporting documentation, and an academic plan. The student may file the appeal based on mitigating circumstances as defined below:

- Death of a close relative affecting the student's academic performance.
- Illness of the student or close family member having direct effect upon the academic record.
- Other unique special circumstances outside the student's control.

Appeals are reviewed by the Financial Aid appeals committee and will take a few weeks to process. Students will not meet with the committee. Students will be notified by GC email and/or mail of the decision.

If the appeal is granted, the student is placed on financial aid probation for that semester and regains eligibility for Title IV federal financial aid. Additional conditions may be established as part of the appeal decision. Students on probation must abide by the requirements in their academic plan to continue their probationary status. If they fail to meet the requirements in their academic plan, they will be placed on financial aid suspension status and will lose Title IV aid eligibility. If new special circumstances exist, the student may appeal again. However, a student will only be granted two appeals while at Gulf Coast State College.

If the appeal is denied by the committee, the student remains on financial aid suspension and is not eligible for Title IV aid. The decision of the appeals committee is final. The student may appeal again the following semester if circumstances have changed or student has additional documentation. A student on financial aid suspension can regain Title IV aid eligibility once they are again meeting all three SAP requirements.

If you do not receive a decision on your appeal by the time your tuition payment is due, you must make other personal arrangements to pay your fees for the current or upcoming semester in order to keep your schedule of classes. In making those arrangements you should not assume your appeal will be granted or that you will have your financial aid reinstated.

College Preparatory (Development/Remedial) Classes

Required developmental coursework is counted when determining a student's enrollment status for financial aid purposes. However, federal guidelines state that students are limited to 30 credit hours of funded developmental coursework.

Enrollment Snapshot and Disbursement

Each semester, make sure you register at the beginning of the semester for all classes you plan on attending. GCSC awards aid based on enrollment at certain points in time also known as census dates. For each semester (fall, spring, summer), there is an add/drop period followed by a "no show" reporting period of about a week. Instructors will verify your attendance during this time. After the no show period, a snapshot of your enrollment is taken. Your aid for the semester is calculated using this enrollment snapshot. Session C classes added later will not be included in your enrollment snapshot.

There will be a second enrollment snapshot taken after the session C add/drop and "no show" reporting periods only for those students who were not registered at the beginning of the semester and who do not already have a snapshot of enrollment. Students in the Educator Preparation Institute are the only exception to this rule, as their enrollment snapshot is updated after session C's "no show" reporting period.

Pell Grant is disbursed to students' Lighthouse accounts approximately one week after the "no show" reporting period as long as all of their classes have started. Refund checks will be mailed within 14 days of the date of disbursement. Other types of financial aid typically disburse a few weeks after Pell, depending on the type of aid.

Withdrawing and Paying Back Federal Aid

Students receiving federal financial aid (Pell Grant, SEOG, and Stafford Loans) who withdraw or stop attending all of their classes will be required to repay a portion of their financial aid if they have not attended more than 60% of the semester. Federal law states that federal student aid is awarded based on the assumption that the student will attend school for the entire semester. When a student does not attend more than 60% of the semester, they have not earned all of their

aid and must repay what they have not earned. **This is the law and there are no appeals!**

Veterans Benefits

Applicants who plan to attend college under veterans benefits should consult the veterans affairs (VA) certifying official. To learn more about veteran benefits and to apply, go to www.gibill.va.gov.

To be eligible, students must be degree seeking with all of their coursework leading towards that degree. Their enrollment must be reported to the VA certifying official each term.

Gulf Coast State College will adjust its VA certification procedures to the changing dynamics of the Veterans Administration without prior notification to students. Students on probation for two consecutive terms of enrollment who receive VA educational benefits will have their benefits terminated. VA benefits will be reinstated when the student is no longer on academic probation.

Credit for previous education and training will be evaluated and granted, if appropriate. Since the first VA checks are delayed, it is advisable for the veteran to be prepared to meet all expenses for approximately two months. For further information call the office of military and veteran affairs at Gulf Coast State College at 747-3210.

Veterans' Fee Deferment Policy

In accordance with Florida Statutes 1009.27, only one deferment per calendar year will be granted, except where the veteran's certifying officer concurs that extenuating circumstance were present, then additional deferments may be granted.

Any person eligible to receive veteran educational benefits who wishes to pursue an approved program of education at Gulf Coast State College will be granted upon request a sixty (60) day deferment during the fall and spring semesters and a thirty (30) day deferment for summer semesters for full payment of fees from the first day of classes, provided the period of deferment shall not extend beyond 10 days before the end of the term.

No eligible person who has received a deferment and who has failed to pay the deferred fees shall be allowed to re-enroll until such indebtedness has been satisfied.

Office of Military and Veteran Affairs

GSCS has an office of military and veteran affairs to provide assistance to active duty/veterans/guard & reserve personnel, as well as their family members who are using their VA education benefits. The areas of assistance include, determining if members are eligible for VA benefits, instructions on applying for benefits, advising, registration, and transitioning to the college environment. A Veteran Book Borrow Program is also available for eligible students on a first-come, first-served basis.

STUDENT SERVICES

Academic Advising

The mission of Gulf Coast State College's academic advising program is to engage all students in dynamic academic and career planning. The advising program has been developed that enables students to partner with experts in the academic fields related to student's field of study or career choice. All students must consult with an academic advisor located in the Center for Advising and Success, Student Union West Room 80 prior to registering for first semester classes.

Every first time student at Gulf Coast State College will meet with a Master Advisor who will assist the student in the transition to college and aid in scheduling the student's first semester courses. Master Advisor will assign a Primary Advisor for each student based upon the student's chosen field of study.

During the student's first semester of classes, the student will schedule a meeting with the Primary Advisor to map out the student's educational plan. The student's assigned Primary Advisor will continue to work with the student throughout the student's academic career at Gulf Coast.

Students may change their major for a current term through the initial drop/add deadline for the term. Any change of major initiated after the drop/add deadline will be processed and applied to the subsequent term. The Center for Advising and Success is located in Student Union West Room 80.

Students who have declared **transfer track or academic major** may register for classes without consulting an academic advisor provided they are in good academic standing.
First-time students are not allowed to register without consulting an academic advisor.

Degree Evaluation

The Institutional Degree Evaluation is a tool that assists students in determining if they are on target for graduation. The Degree Evaluation matches a student's academic history against a specific GCSC major for a specific catalog year to determine which course requirements have been met and which are still unsatisfied. Students may access their individual degree evaluation by visiting www.gulfcoast.edu and click on LIGHTHOUSE, or by requesting a copy of their degree evaluation from an advisor located in Student Union West, Room 80.

Developmental Education

Gulf Coast State College offers developmental courses in Reading, Writing and Mathematics using modularized and compressed strategies. In addition, a concurrent (though not co-requisite) lab in Reading and Writing will be offered as one option.

In each discipline area, **traditional placement** students (see page 13) will have two options from which to choose, as well as the choice of pursuing developmental coursework in traditional "seated" classes or via distance learning format. In all instances, students will be informed of the advisability of taking the PERT placement tests to better inform their own decision-making process.

GCSC will seek to accelerate student progress through developmental education coursework, and to therefore increase the number of students who successfully complete these requirements, through options for individualized instruction. For example, modular coursework in Mathematics will proceed on the basis of addressing identified skills deficiencies, with options for accelerated completion of the developmental section and corresponding progression into college-level courses as quickly as possible.

In addition, Mathematics "gateway" course requirements have been re-aligned to reflect students' indication of future interests through identification of a "meta-major," with the MAC 1105 (College Algebra) sequence reserved for students selecting STEM meta-majors and as an option for students in the Business meta-major. Students selecting any other meta-major have the option to complete STA 2023 or MGF 1106/1107.

Placement Testing

Some first-time-in-college degree seeking students entering college credit programs are required to take some form of basic testing for placement in English, reading, and mathematics. Students may meet this requirement several ways. ACT or SAT scores may be used for placement provided that the scores are less than two years old and they meet state-mandated minimum score levels. If ACT or SAT scores are lower than the state-mandated minimum scores, the student may take the College Placement Test (CPT). If a student transfers college-level mathematics credit and/or college-level English composition credit to GCSC, the student has completed the testing requirement in that specific discipline and must test only in the area he or she is deficient. Transfer students need to have their transcripts evaluated by the Transcript Coordinator to determine whether it is required to take any of the tests. College-level English composition credit supersedes the need for placement in reading.

Please see Flexible and Traditional Placement explanation on page 13 of this catalog.

Arrangements for special testing accommodations are made in the Office of Disability Support Services.

In accordance with Florida Statute Section 1008.30 State Board of Education Rule 6A-10.0315(8), a degree-seeking student has a maximum of two attempts on the CPT once admitted to the college. Attempts are considered by subtest (reading, writing, math) and do not have to be taken at the same time.

College placement tests are available for a fee and results are available immediately after testing. At the Panama City Campus, students can pay the fee in the Bookstore or Business Office and take the receipt to the Testing Lab located in the Enrollment Services Annex Building, Room 129. The placement test schedule is on the college website (www.gulfcoast.edu); under *Quicklinks* click on the T**esting** option then "College Placement Test". The CPT is also available at the Gulf/Franklin Campus, the North Bay Campus, and the Tyndall Air Force Base Campus.

The College Level Examination Program (CLEP) test is administered at the Panama City Campus. The registration fee can be paid in the Bookstore or Business Office and an appointment can be made in the Testing Lab located in the Enrollment Services Annex Building, Room 129.   The CLEP test schedule is available on the college website (www.gulfcoast.edu); under *Quicklinks* click on the T**esting** option then "CLEP". CLEP is also available to eligible military and Department of Defense personnel at the Tyndall Air Force Base Campus.

The Test of Adult Basic Education (TABE) is administered to students interested in one of the PSAV programs. Students are registered to take the TABE by the program advisor and can test either at the Panama City Campus, the North Bay Campus, or the Gulf/Franklin Campus. The TABE test schedule is available on the college website (**www.gulfcoast.edu**); under *Quicklinks* click on the **Testing** option then "TABE".

The Health Education Systems, Inc. (HESI) is administered to students pursuing a career in nursing. Students are registered to take the HESI by a program advisor in the Health Sciences Division.

Bookstore

Gulf Coast State College maintains a bookstore in the Student Union West. The bookstore sells new and used books, school supplies, and Commodore apparel. The bookstore is open Monday through Thursday from 7:30 a.m. to 6:30 p.m. and on Fridays from 7:30 a.m. until 4:00 p.m. during the fall and spring semesters. Bookstore hours during summer terms vary from those listed above. Books for Gulf/Franklin Center classes are sold at the Gulf/Franklin Center Bookstore Monday through Friday. During the final exam period of each semester, the bookstore at the main campus will buy back select titles from students.

PAY4PRINT

A Pay4Print system is installed in all computer labs and in the library. Your username is the first part of your GCSC e-mail address and can be found by accessing Lighthouse. Your initial password is your birthday (YYYYMMDD). You will be required to change your password after your initial log on. Adding funds may be done online using PayPal or through one of the Pay4Print kiosks located in the library, outside the bookstore, or at each of the remote campuses. Money added by students shows as real balance on the student account. Some courses have a lab fee that may load credit to your account and show up as a free balance; any unused amount in the free balance is removed at the end of the course.

Funds can be added to student print accounts by credit or debit card with a minimum of $5 or at patron kiosks or bill acceptors on the Panama City campus at the Library, and the lobby of the Student Union West Building outside the Bookstore. Bill acceptors are also located at the Gulf Franklin Center in room B108, at the Tyndall AFB Center in room 34, and at the North Bay Center in the EOC student break room. Black & white copies are 5 cents and color copies are 20 cents. There is no refund on any portion of unused prints.

Library

The GCSC library provides comprehensive library services, including research assistance, library instruction, reserve materials, and interlibrary loan. Virtual reference chat is available all hours the library is open. These services may also be accessed via the "Library" link at www.gulfcoast.edu. The Library's resources include print and electronic books and journals and access to over 130 databases. In addition to college-owned resources, the staff will help obtain materials from other libraries. Group and quiet study areas are complemented by computers for students to access the catalog and other online resources. Wireless internet access and wireless printing are available within the building

Assessment (CLEP)

Computerized College Level Examination Program (CLEP) tests are given at scheduled times by appointment. Registration for the test is required before the test is administered. The CLEP testing schedule is available in the Enrollment Services Building, Room 128 or on the college website (www.gulfcoast.edu) under Student Resources and click on the **testing option**.

CLEP and DSST examinations are also available to active duty military or DOD eligible individuals at the GCSC Tyndall Office. Call 283-4332 for more information.

Florida Virtual Campus (FLVC)

Florida Virtual Campus is a network that provides access to many resources of Florida's higher education institutions. FLVC offers a variety of student services and resources provided for convenience by the State of Florida and by the participating institutions. Students may access the FLVC website at www.flvc.org to stay aware of current degree requirements, run a graduation evaluation, access college transcripts, take career assessments, investigate Florida colleges and degrees, and apply to Florida colleges.

Registration

Registration is the process of building your class schedule and enrolling in courses. Courses are offered for varying lengths of time in a term. There are three Full Terms in an academic year—Fall, Spring, and Summer-which are approximately 16 weeks (12 weeks in the summer) each. Each term has mini terms that are 8 weeks (6 weeks in the summer) in length. Go to www.gulfcoast.edu and click on Lighthouse to register for classes. Please refer to the academic calendar for dates of open registration.

As a new degree-seeking student, you will be eligible for registration after completion of Orientation.
If you have a "registration hold" on your record, you will need to resolve the hold before you can register. To find out if you have any holds on your record, go to www.gulfcoast.edu and click on Lighthouse Login and click on Student Records. advisor.

Websites

Websites students may find useful include:
- www.studentclearinghouse.org, download degree and/or enrollment verifications.
- www.flvc.org, degree shop/copy of transcripts/apply to academic institutions.
- www.ets.org, international student information on TOEFL.
- www.collegeboard.com, order official SAT scores, CLEP/AP/IB.
- www.actstudent.org, order official ACT scores.
- www.collegesource.org, information of college and/or universities.
- www.va.gov, information on veteran student benefits.
- http://www.gulfcoast.edu/students/testing_center/credit_exam/default.htm, student-information on CLEP/IB/AP/AICE.
- www.http://www.leg.state.fl.us/Statutes/index.cfm, current state statutes.

Career Center/Job Placement

Whether you're looking for the latest career and salary information, links to prospective employer web sites, valuable tips for writing resumes, or interview strategies, the GCSC **Career Development and Job Placement Center** is a great place to start. Let us help you explore career opportunities and find your path to a brighter future.

The Career Center and Job Placement offers:
- Computerized career assessments, to clarify your personality, values, interest, and other characteristics that may affect your career choices.
- Assistance with job searches/referrals, unemployment, resumes, and additional employment resources.

- Literature and online resources on career fields-salaries, labor market information, education requirement, job duties, and much more.

The services are **FREE** for students, potential students, alumni, and the community. We are located on the first floor in the Student Union East Building Room 54 or you can visit our website at http://careersourcegc.com.

Student Support Services - TRIO

The Student Support Services-TRIO program provides support for students with academic need in the areas of English, Spanish, reading, and mathematics. This support includes one-to-one and group tutoring as well as specialized workshops and test preparation. Professional learning managers provide program services to all eligible participants. Additional support is provided by the program counselor through individual and group counseling activities that focus on study skills development, career exploration, student success strategies, and activities that foster a sense of belonging. A learning laboratory with computer access and audio/visual equipment is also available for student use. Eligibility for participation in the Student Support Services program is based on federal guidelines. The program serves first generation and low-income students, as well as students with physical and learning disabilities. Once certified for the program, students remain eligible for program services throughout their tenure at Gulf Coast State College. The offices for Student Support Services are located in the Student Union West Building, rooms 88, 89, 90B, and 90C.

Services for Students with Disabilities

Gulf Coast State College encourages the enrollment of students with disabilities and recognizes their special needs; thus the Disability Support Services program at GCSC is comprehensive in the services offered and the range of disabilities served. Its focus is academic support through human support services and technology to help students reach their potential. The college endeavors to provide equal access to a quality education by providing reasonable accommodations to qualified individuals. To promote academic success, we offer a wide range of assistance and support services. Services include but are not limited to assistance in course registration, information about and referrals to campus and community services, academic and personal counseling, learning specialists, testing accommodations, readers, note takers, interpreters, listening systems, and adaptive equipment. Students who have a disability requiring special assistance should contact the Office of Disability Support Services.

Course Substitutions

Gulf Coast State College has developed and implemented policies and procedures for providing reasonable course substitutions for eligible students with disabilities. Students who may be eligible for substitutions are those who have documented disabilities. Documentation must be provided to substantiate that without a course substitution the disability can be reasonably expected to prevent the student from meeting requirements for admission to the institution, admission to a program of study, entry to upper division, or graduation. For additional information and assistance, contact the Office of Disability Support Services located in the Student Union East, Room 59 or Room 33.

Student E-Mail

Student Email is a GCSC provided email account for credit students and is issued upon admission to the college. **This email account is the official means of communication between the student and Gulf Coast State College** and thus, it is not permissible to forward this email address to any other email account. Please check this email account on a regular basis for administrative and instructional notifications and communications. Establish your student email account by following the instructions found at the following site: http://www.gulfcoast.edu/students/student_email/default.htm.

Computer Labs

Computers for use by the students and staff of the college are located in the library. They are fully supported by the computing center and provide access to various types of multi-media tutorials as well as the Internet and Microsoft Office applications. These computers are available all hours the library is open. An open computer lab/library is also available at the Gulf/Franklin Center Monday through Friday.

Student Insurance

The college has no accident or medical insurance available for students. If a student is not covered under a personal or family policy, the college strongly recommends that the student purchase such a policy from the agent of choice.

LIGHTHOUSE

Lighthouse is Gulf Coast State College's online service for students that provides learning resources such as online registration, grades, degree evaluations, financial aid, and academic records.

Lighthouse Password/Personal Identification Number (PIN)

A Personal Identification Number (PIN) is a unique password that allows you to electronically access your student records and to register for classes. When you establish your Lighthouse account, you will be asked to select a password that will serve as your PIN each time you log in. By creating a unique PIN, you will help provide increased security for your student records. It is important that you do not forget your PIN since you will be required to enter it every time you log in to Lighthouse. If you do forget your PIN, you should follow the directions on the Lighthouse home page to re-set your PIN. Your PIN should be kept secure; you should not share it with anyone.

Your PIN will remain active while you are enrolled as a student at GCSC. To access your student information for grades and evaluated coursework from other colleges go to http://www.gulfcoast.edu, click on LIGHTHOUSE Student Portal.

Student Identification Card

Photo student ID cards are available in the ID Center in the Enrollment Services Building or at the following locations: the main office at the Gulf/Franklin Center, the main office at the North Bay Center and the GCSC office at Tyndall Air Force Base. Students must present current photo identification (driver license or military identification) and a current registration receipt that shows the student's ID number to have the photo ID taken. There is no charge for the original ID card; however, a fee is incurred for replacement cards.

TUTORIAL SERVICES

The college provides tutorial support to Gulf Coast students in English, reading and mathematics.

Math Lab

Located on the second floor of the Student Union West, the Math Lab offers free tutoring for students in mathematics courses through Calculus I. Students are encouraged to come do their math homework in the lab so they can ask questions as they practice the material. The lab is equipped with computers where students can watch course videos and utilize online resources. The Math Lab is a fun learning environment where students can ask questions, study, and learn how to become successful in their math classes.

Mission: To provide a positive atmosphere where students come to get help with their homework, enhance their study skills, and become successful independent learners.

The Writing and Reading Lab

The Writing and Reading Lab, located in the Rosenwald Classroom Building in rooms 108 and 110, offers free tutoring for students in English and Reading courses and is also happy to provide tutoring to any student seeking assistance with English, grammar, punctuation, mechanics, essay development, reading comprehension, organization of ideas, and MLA, APA, and Chicago style formatting.

Mission: The Writing and Reading Lab endeavors to support the achievement of student academic goals by providing tutoring in a caring and supportive environment thereby increasing retention and graduation rates. Maximizing the aptitude of developmental students in order to meet the rigorous demands of the curriculum is paramount.

STUDENT SUPPORT

Counseling

Counseling services are available for academic adjustment, personal concerns, and referral services. Care is taken to assure the highest standards of confidentiality are maintained at all times. The Counseling Center is located in the Student Union East.

The Honors Program

The Honors Program emphasizes development of critical thinking skills in an environment that is unique and challenging. Honors courses are designed to be a different approach to teaching and learning. Honors classes are small, generally fewer than 20 students per class. Emphasis is placed on individuality, originality, and participation. Honors students have opportunities to participate in unique research and special classroom activities not usually available in the regular classes for these courses. The Honors Program curriculum is designed to fit every Associate in Arts program the college offers. The honors courses will fulfill most of the general education requirements for any A.A. degree.

Students who complete the program while maintaining the required grade point average will be classified as "Honors Graduates." These students will receive special recognition during graduation, receive the seal of Honors on their diploma and will have the designation as "Graduate of the Honors Program" on all transcripts. Participants in the program may be eligible for additional scholarship opportunities, membership in Phi Theta Kappa International Honorary Society, nomination to the Academic All-USA Team, and Brain Bowl. In order to participate in the Honors Program, students must:
- have a 3.5 or better weighted high school GPA (transcript required), or
- have completed 15 credit hours from GCSC with a 3.5 GPA or better.

Students are then expected to maintain a 3.0 GPA in all coursework in order to remain in the program. Students who fail to maintain this minimum GPA will not be permitted to enroll in additional honors courses until the GPA is improved to 3.0. Students must complete all honors coursework and have an overall 3.5 GPA or better to graduate from the program.

Curriculum: To graduate from the program, a student must complete at least 15 hours of core courses. In special cases, the honors director may be able to substitute course.

The Honors Program curriculum is as follows:

IDH 2931 Honors Symposium*	1 credit
IDH 1905 Honors Directed Research**	1 credit
ENC 1102H English Composition II	3 credits
EUH 1000H Western Civilization I	3 credits
EUH 1001H Western Civilization II	3 credits
THE 2000H Understanding Theatre Meets Area I Humanities	3 credits
BSC 2311H Marine Biology	3 credits
PHI 2600H Ethics Meets Area II Humanities	3 credits
STA 2023H Statistics	3 credits
MAC2311H Calculus I	4 credits
BSC 2011H Biology for Science Majors II	3 credits
PSY 2012H Psychology	3 credits
POS 2041H American National Government	3 credits
LIT 2090H Contemporary Literature Meets Area III Humanities	3 credits
Majors Course Honors by Contract***	3 credits

*The topics addressed in the Honors Symposium change each semester and the course may be taken more than once.
**Honors Directed Research allows the student to develop independent research skills, address leadership qualities and to create conference worthy presentations; this course may be taken more than once
***Contractual course arrangements permit any course within a student's major to become an honors course by contract. Honors contracts are processed by the 10th working day after the drop and add period.

For additional information, contact the honors director, Jennifer Hamilton, 769-1551, ext. 5850.

Academic Freedom

Believing that collegiate education is fortified through the vigorous and unfettered presentation and exchange of ideas, the District Board of Trustees of Gulf Coast State College staunchly upholds the tenets of academic freedom. No external coercion shall be permitted to interfere with sober pursuit of truth and knowledge within the context of properly constituted courses and programs of study. The District Board of Trustees has developed procedures by which curricula and syllabi are developed and modified in keeping with the mission of the institution.

Student Conduct

An applicant suspended from another institution for disciplinary reasons will not be admitted to Gulf Coast until eligible for readmissions to the suspending institution.

Gulf Coast State College students are subject to college rules and policies and all public laws. Students who violate college rules or policies are subject to disciplinary action as provided in the Student Conduct Code found in the *Student Handbook*.

Appeals Committee (Non-academic)

The Appeals Committee reviews non-academic grievances, including those involving the impact of religious beliefs or practices on the educational benefits of students, requests for substitutions to admissions and graduation requirements for students with disabilities, and requests for refunds. Members of the committee are appointed by the college President each year.

Academic Grievances

Gulf Coast State College insures fair and prompt resolution of student academic grievances, providing due process and equitable treatment for all parties involved. For a copy of the Student Academic Grievance procedure, as well as assistance with filing an academic grievance, contact the Office of Academic Affairs and Learning Support.

Student Rights & Responsibilities

Gulf Coast State College holds students and community of central importance. The college provides many opportunities for learning and offers a range of programs and services to help students become well-educated, productive citizens. The college is equally dedicated to collaborating with the community to help create or improve economic well-begin and to offer the space of the college for social dialog, events of art and culture, and other moments that enhance our quality of life.

In accordance with the college's mission, the institution articulates rights and responsibilities that shall form the foundation of the social contract between the student and the institution. Basic to these rights and responsibilities are the students' rights:
- To be treated with respect and dignity
- To be afforded due process in resolution of all conflicts with the college
- To the counsel of a student advocate (Student Ombudsman) to assist in the resolution of such conflicts
- To protection of all constitutional rights in accordance with the United States Constitution

As a member of the Gulf Coast State College community, students also are obligated to the following basic responsibilities:

- To behave in a mature, responsible manner
- To respect the rights, opinions and beliefs of other community members
- To adhere to all established college policies and procedures

Student Ombudsman

Gulf Coast State College has designated the vice president of student affairs to serve as the student ombudsman. The role of the ombudsman is to investigate student problems experienced at the college and to attempt to secure a satisfactory resolution.

Student Right to Know

Student Persistence Rules/Placement Rate of Vocational Completers: Information regarding graduation rates and placement are available as required by the Student Right to Know Act (Public Law 101-542) in the Office of Institutional Effectiveness on the Panama City Campus.

Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act afford students certain rights with respect to their educational records. These rights include:

1. The right to inspect and review the student's education records within 45 days of the day Gulf Coast State College receives a request for access. Students would submit to the Registrar's Office written requests that identify the record(s) they wish to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Registrar's Office the student shall be advised of the correct official to who the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes is inaccurate. Students may ask Gulf Coast State College to amend a record that they believe is inaccurate. They should write the Registrar, clearly identify the part of the records they want changed, and specify why it is inaccurate. If Gulf Coast State College decides not to amend the record as requested by the student, the student shall be notified of the decision and advised as to his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by Gulf Coast State College in an administrative, supervisory, academic, research, or support staff position (including law enforcement personnel and health staff); a person or company with whom Gulf Coast State College has contracted (such as an attorney, auditor, collection agent, degree conferral & transcript processing agent, document managing agent, and placement sites for internship or similar student work/study opportunities); a person serving on the Board of Trustees; a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks; consultants, volunteers or other outside parties to who Gulf Coast State College has outsourced institutional services or functions that it would otherwise use employees to perform. A school official has a legitimate educational interest if the official needs to review an education records in order fulfill his or her professional responsibility. As allowed with FERPA guidelines, Gulf Coast State College may disclose education records without consent to officials of another school, upon request, in which a student seeks or intends to enroll.
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Gulf Coast State College to comply with the requirements of FERPA. The name and address of the Office administers FERPA is:

   Family Policy Compliance Office
   U.S. Department of Education
   400 Maryland Avenue, SW
   Washington, DC 20202-5901
5. What conditions apply to disclosure of information in health and safety emergencies?
   a. Gulf Coast State College may disclose personally identifiable information from an education record to appropriate parties, including parents of an eligible student, in connection with an emergency if knowledge of the information is necessary to protect the health or safety of the student or other individuals.
   b. Nothing in the 20 U.S.C. 1232g (b)(1)(l) and (h) or this part shall prevent Gulf Coast State College from:

1. Including in the education records of a student appropriate information concerning disciplinary action taken against the student for conduct that posed a significant risk to the safety or well-being of that student, other students, or other members of the school community;
2. Disclosing appropriate information maintained under paragraph (b)(1) of this section to instructors and school officials within Gulf Coast State College who have been determined to have legitimate educational interests in the behavior of the student; or
3. Disclosing appropriate information maintained under paragraph (b) (1) of this section to instructors and school officials in other schools who have been determined to have legitimate educational interests in the behavior of the student.

6. In making a determination under paragraph (a) of the section, Gulf Coast State College may take into account the totality of the circumstances pertaining to a threat to the health or safety of a student or other individuals. If Gulf Coast State College determines that there is an articulable and significant threat to the health or safety of a student or other individuals, it may disclose information from education records to any person whose knowledge of the information is necessary to protect the health or safety of the student or other individuals.

At its discretion, Gulf Coast State College may provide Directory Information in accordance with the provisions of the Family Education Rights and Privacy Act. Directory Information is defined as that information which would not generally be considered harmful or an invasion of privacy if disclosed. Designated Directory Information at Gulf Coast State College includes the following:

- Student's name
- Date of birth
- Major field of study
- Enrollment status
- Participation in recognized activities and sports
- Weight, height and photograph of athletic team members
- Dates of attendance
- Degrees, awards, and previous schools attended

Students may withhold Directory Information by notifying the registrar in writing; please note that such withholding requests are binding for all information to all parties other than for those exceptions allowed under the Act. Students should consider all aspects of a Directory Hold prior to filing such a request.

Health or Safety Emergency (FERPA)

In an emergency, *FERPA* permits school officials to disclose without student consent education records, including personally identifiable information from those records, to protect the health or safety of students or other individuals. At such times, records and information may be released to appropriate parties such as law enforcement officials, public health officials, and trained medical personnel. *See* 34 CFR § 99.31(a) (10) and § 99.36. This exception to *FERPA's* general consent rule is limited to the period of the emergency and generally does not allow for a blanket release of personally identifiable information from a student's education records. In addition, the Department interprets *FERPA* to permit institutions to disclose information from education records to parents if a health or safety emergency involves their son or daughter.

Internet Privacy Policy

Website privacy is very important to us. Our policy is to collect no personal information about you when you visit our Website, unless you affirmatively choose to make such information available to us.

When you visit our website our Web server automatically recognizes the Internet domain, IP address from which you accessed our website. This information does not result in the identification of your personal e-mail address or other personal information.

In addition, we gather information regarding the volume and timing of access to our website by collecting information on the date, time, and website pages accessed by visitors to the website. We do this so that we can improve the content of our website, and this information is not shared with other organizations. Again, only aggregate information is collected, and individual visitors' personal information is not identified.

If you choose to share personal information with us, by sending us a message or filling out an electronic form with personal information or sending a message, we will use the information only for the purposes you authorized. Some of the information may be saved for a designated period of time to comply with the state of Florida's archiving policies, but we will not disclose the information to third parties or other government agencies, unless required by state or federal law.

For information on the risks of identity theft and what to do if you suspect you are a victim of identity theft, go to http://www.ftc.gov/.

If you have other questions about our privacy policies, or have ideas about improving our policies, please feel free to e mail us at rbarker@gulfcoast.edu, or contact us by telephone at (850-872-3857).

Notification of Social Security Number Collection and Usage

In compliance with Section 119.071(5), Florida Statutes, Gulf Coast State College (GCSC) issues this notification regarding the purpose of the collection and use of your Social Security Number (SSN). GCSC collects your SSN only to perform College duties and responsibilities. To protect your identity, GCSC will maintain the privacy of your SSN and never release it to unauthorized parties in compliance with state and federal laws. The College assigns you a unique student/employee identification number which is used for associated employment and educational purposes at GCSC, including access of your records. Gulf Coast State College may collect and/or use your Social Security Number for the following purposes:

EMPLOYEES

Human Resources (Employment and Hiring)

Social Security Numbers are used for legitimate business purposes in compliance with completion and processing of the following:

- Federal I-9 (Department of Homeland Security)
- Federal W4, W2, 1099 (Internal Revenue Service)
- Federal Social Security taxes (FICA)
- Processing and Distributing Federal W2 (Internal Revenue Service)
- Unemployment Reports (Florida Department of Revenue)
- Florida Retirement Contribution reports (Florida Department of Revenue)
- Workers Comp Claims (FCCRMC and Department of Labor)
- Direct Deposit Files (affiliate banks)
- 403(b) and 457(b) contribution reports
- Group health, life, and dental coverage enrollment (for employees and their dependents)
- Various supplemental insurance deduction reports
- Backgrounds checks (SSNs are collected in conducting employment background investigations for prospective employees as well as promotion eligible employees pursuing positions of special trust)
- Retirement documents (for retirees, employees and their beneficiaries)

Providing your Social Security Card is a condition of employment at GCSC.

STUDENTS

Admission and Registration
Federal legislation relating to the Hope Tax Credit requires that all postsecondary institutions report student SSNs to the Internal Revenue Service (IRS). This IRS requirement makes it necessary for colleges to collect the SSN of every student. **A student may refuse to disclose his or her SSN for this purpose, but he/she may be subject to IRS penalties.**

The Florida public school system uses SSN as a student identifier.   It is beneficial to have access to the same information for purposes of tracking and assisting students in the transition from one education level to the next, linking all levels of the state education system. The intent is to establish a comprehensive management database of information which will co-reside with the Division of Public Schools Information Database and the State University System Database to provide integrated information at the state levels for educational decision-making.

Social Security Numbers appear on official transcripts and are used for business purposes in accordance with parameters outlined by the U.S. Department of Education.

Veteran Administration Benefits

The SSN is required for enrollment verification and reporting for all Veterans Administration beneficiaries. A veteran student is required to report his/her SSN in order to receive the appropriate benefits and for tracking purposes.

Financial Aid
The Student Financial Aid Office uses SSNs in the application process for determining eligibility for financial aid such as grants, loans, work assistance programs, and scholarships (including Bright Futures). The SSNs are used to identify students by the Florida Office of Student Financial Aid and the U.S. Department of Education. Each student must report his/her SSN on the FAFSA. **If a SSN is not provided, the FAFSA will not be processed.**

Workforce Programs
These programs, funded through the Agency for Workforce Innovation (AWI), use your Social Security Number as an identifier for program enrollment and completion.

Contractors
Gulf Coast State College collects contractor Social Security Number information in comply with Internal Revenue Service regulations for contractors and individuals who have entered into agreements for services, as required and authorized by federal law.

Foundation/Alumni Affairs
The Foundation is charged with advancing the mission and goals of the College through outreach initiatives, facilitating alumni relations and fundraising efforts. The Foundation has a need to access SSNs of College graduates for the sole purpose of locating "lost" alumni and confirming alumni identify and/or status (i.e. deceased).

Student ID Numbers

All GCSC students are issued a unique Student Identification (ID) number upon admission to the College. All college transactions will require the student to provide their ID number.

Degree Compliance

The Institutional Degree Evaluation is a program that matches a student's academic history against a specific GCSC major program for a specific catalog year to determine which course requirements have been met and which are still unsatisfied. Students may access their individual degree evaluation by visiting www.gulfcoast.edu and click on LIGHTHOUSE, or by requesting a copy of their degree audit from an advisor located in the Center for Advising & Success in Student Union West room 80.

Parking and Campus Security

Campus security and parking safety are important for students, staff, and visitors to Gulf Coast State College. Employees and students should keep personal safety as their first priority and take the following steps in case of an emergency.
- Call the FSU Police, ext. 3111, from any college phone or 872-4750 ext. 311.
- Call 911 if a life-threatening emergency.
- Call the college switchboard operator, extension 2800, from any college phone or 769-1551.
- Safety concerns at the Gulf/Franklin Center should be reported to the director and/or staff located in Building A.
- Safety concerns at the North Bay Center should be reported to the division chair and/or staff located in the Abbott Bldg.

Operating a vehicle on college properties is a privilege and it is the student's responsibility to adhere to all published guidelines and posted traffic information. Failure to follow these rules may result in the loss of this privilege.

All parking areas are color coded accordingly:
a) green curb parking is reserved for faculty and staff,
b) blue curb parking is reserved for handicapped permits,
c) and yellow curb parking areas are designated as No Parking.

Any areas not marked as previously designated are available for student and guest parking. All vehicles on the GCSC Panama City campus, the North Bay Center, and the Gulf/Franklin Center are required to display a parking decal or temporary permit, as appropriate. The cost of the first decal or permit is included in the student's fee and additional decals are available for fee-paying students at a small additional cost.

Students, faculty, staff, and visitors parking in restricted areas will receive traffic citations for violations. Fines must be paid in a timely manner in the college's Business Office or the fines will increase in accordance with guidelines published on the college's website. Funds generated from parking violations will be placed in a student loan fund administered by Financial Aid.

To aid in the prevention of accidents and criminal activity on campus, GCSC requests students report suspicious activities to staff immediately. The Florida State University – Panama City Campus Police monitor parking areas and buildings for the safety of our students, faculty, and staff. "Campus Crime Watch Area" signs with instructions and periodic crime awareness programs help student's protect their personal safety and possessions on campus.

Campus security includes a strict prohibition about the possession, use, or sale of alcoholic beverages and illegal drugs. The "Drug Free Campus" policy found in the *College Catalog*, the *Student Handbook*, and the *Employee Handbook* describes college policies regarding the possession, use, or sale of alcoholic beverages and illegal drugs.

The annual campus security report contains campus crime statistics for years 2007, 2008 and 2009. Statistics concern criminal offenses, as defined by the university crime reporting format, reported to campus security or local police agencies. Additional information can be found at the OPE Campus Security Statistics website (http://ope.ed.gov/security) brought to you by the U.S. Department of Education.

Parking Decals/Temporary Passes

Vehicles on all Gulf Coast State College properties are required to display a college parking decal or temporary pass issued by the sponsoring department for short duration events. Failure to comply with this requirement may result in a traffic fine, and repeated offenses may result in a loss of driving privileges on campus. Parking fees are established annually and approved by the District Board of Trustees as part of the annual operating budget. Parking fees are to be used for the maintenance of parking areas, pedestrian walking areas, lighting, costs of maintaining the public trolley access, and other associated costs.

Parking tickets will not be issued during public events such as public forums, athletic events, and performing arts performances provided the vehicle is otherwise legally parked.

The cost of the first parking decal for GCSC and FSU-PC students is included in the student's fees. Decals expire on July 31 and may be obtained by presenting a copy of a paid fee receipt to the Information Desk on the first floor of the Student Union East. A second decal, if needed, may be obtained by the student at a cost of $5 to cover administrative costs.

Temporary passes are available for others attending events of short duration on college properties and may be obtained by contacting the sponsoring department on campus. Students using temporary forms of transportation, such as a rental vehicle, may obtain a temporary pass at the Information Desk on the first floor of the Student Union East rather than purchase an additional decal.

Handicapped Parking

Parking in handicapped parking spaces requires a state-issued tag or placard, and violations are subject to civil penalties as allowed by Florida Statute.

CAMPUS CRIME REPORT STATISTICS

Number of Offenses Reported

OFFENSES	2012	2013	2014
Murder	0	0	0
Manslaughter	0	0	0
Sex Offenses – Forcible	0	0	0
Sex Offenses – Non Forcible	0	0	0
Aggravated Assault	0	0	1
Burglary	0	2	0
Arson	0	0	0
Motor Vehicle Theft	0	0	0
Drug Law Violations	3	1	2
Liquor Law Violations	2	1	1
Illegal Weapons Violations	1	0	0

Campus Sex Crimes Prevention Act Notice

Pursuant to Sections 775.21, 943.0435, and 944.607, Florida Statutes requiring notification to institutions of higher education if a sexual predator or sexual offender is enrolled or carrying on a vocation at an institution of higher education in this state, the Florida Department of Corrections will notify such institution. Information regarding such offenders attending Gulf Coast State College may be obtained in the Office of the Vice President of Student Affairs or accessed online at www.fdle.state.fl.us.

Drug Free Campus

In compliance with the Drug Free Schools and Communities Act Amendment of 1989, Gulf Coast State College:

- prohibits the unlawful possession, use, or distribution of illicit drugs and alcohol by all students and employees;
- enforces sanctions, including those applicable under local, state, and federal law, for unlawful possession, use, or distribution of illicit drugs and alcohol, including but not limited to suspension, expulsion, termination of employment, and referral for prosecution which may result in arrest, appropriate fines, and imprisonment;
- believes that there are many detrimental health risks associated with the use of illicit drugs and the abuse of alcohol, including but not limited to psychological and physical addiction, insomnia, disorientation, depression, hallucinations, hypertension, increased anxiety and paranoia, damage to unborn fetuses, convulsions, cancer, psychosis, respiratory failure, brain damage, and death;
- encourages anyone with a drug or alcohol problem to seek help at one of the local agencies which include but are not limited to the following:

> Alcoholics Anonymous 784-7431
> Chemical Addictions
> Recovery Effort, Inc. 872-7676
> Life Management
> Center of Northwest
> Florida 769-9481

More information may be obtained in the Counseling Center.

Student Government Association

The Student Government Association (SGA) serves as the student governance group on campus. The SGA actively seeks to represent the needs and concerns of the students to the college administration. Needs or concerns of a legislative nature are presented through the Florida College System Student Government Association (FCSSGA), a statewide

organization representing and involving all of Florida's state and community colleges. The purpose of the SGA is to develop student leadership and to contribute to the total life of the college. Through a number of standing and ad hoc committees, the SGA coordinates, encourages, and promotes participation in extracurricular and co-curricular activities. Application criteria for membership in SGA are available in the Student Government Office in the Student Union East.

Athletics and Recreation

Gulf Coast State College has a highly successful intercollegiate athletic program. The Gulf Coast State College Commodores compete in the Florida Community College Activities Association, Panhandle Conference, in men's basketball, women's basketball, men's baseball, women's softball, and women's volleyball. Gulf Coast's athletic teams have consistently been competitive and highly ranked regionally, statewide, and nationally.

An intramural/extramural program is available for all interested students. Contact by Office of Wellness and Athletics for program listings. Open hours are available for fitness swim and the use of the weight room. Information can be obtained from the director of wellness and athletics.

Cultural Occasions

Plays, lectures, concerts, art shows, and other forms of entertainment or enrichment are brought to the campus and community by the Division of Visual and Performing Arts. These special programs, designed to enhance the cultural life of the campus community, are financed through student activity funds, the sale of tickets, administrative allocations, and the support of the Gulf Coast State College Foundation, Inc. A variety of programs sponsored by the Division of Visual and Performing Arts serve as an integral part of the community's cultural life. All Gulf Coast State College students are encouraged to participate in plays, musicals, choral and band organizations, and art activities.

Campus Organizations

GCSC students have the opportunity to become a member of various campus clubs and organizations and enhance their educational journey. These groups contribute to the total college experience and range from religious organizations, to service organizations to career and academically-oriented organizations. All campus groups must be approved by the Student Activities Board and Student Support Division, following the procedure outlined in the *Student Handbook* under the section "Organizing Clubs."

Public Radio Stations

The WKGC-FM/AM stations are broadcast services of Gulf Coast State College to residents of the Emerald Coast. WKGC-FM is a 100,000 watt American Public Media/BBC affiliate and operates as a public radio station, serving the community with news, information and entertainment. WKGC-AM is an entertainment service to the community, providing the area with classic jazz and popular standards music. WKGC's mission is to serve audiences with distinctive programming that provides information, insights, and cultural experiences essential to understanding a diverse, independent world. The stations serve to promote arts, culture, and civic involvement and the exchange of ideas. WKGC-FM/AM also serves as academic laboratories to GCSC students who want to learn about opportunities and careers in communications.

ACADEMIC POLICIES

Student Classification

Students will be classified in accordance with the following criteria:

Degree seeking: Students enrolled in credit courses that have provided the Enrollment Services Office with all the required admission credentials and have been accepted into their declared programs.
Freshman: Students enrolled in college credit courses that have completed 29 or less credit hours of college work.

Sophomore: Students enrolled in college credit courses that have completed 30 or more credit hours of college work.

Junior: Students enrolled in college credit courses that have completed 60 or more credit hours **and** are enrolled in a Bachelor's level program.

Senior: Students enrolled in college credit courses that have completed 90 or more credit hours **and** are enrolled in a Bachelor's level program

Unclassified: Students who have enrolled but have not declared a program such as dual enrollment or transient students and those who seek teacher recertification or personal enrichment.

Full-time: Students registered for 12 or more credit hours in a fall, spring, or summer term.

Part-time: Students registered for fewer than 12 credit hours in a fall, spring, or summer term.

It should be noted that students receiving benefits from another agency (such as the Veterans Administration) are subject to that agency's definition of these terms.

Graduation Recognition

Recognition will be given at graduation to students who have attained outstanding academic achievement with the following designations:

With Honors	(cum laude)	3.50-3.69 grade point average
With High Honor	(magna cum laude)	3.70-3.89 grade point average
With Highest Honor	(summa cum laude)	3.90-4.00 grade point average

Semester Recognition
Recognition will be communicated each semester for those students who have attained outstanding semester academic achievement with the following designations:

The President's List shall include those degree-seeking students who have earned 12 or more college credit hours within a semester and a semester grade point average of 3.90-4.0.

The Dean's List shall include those degree-seeking students who have earned 12 or more college credit hours within a semester and a semester grade point average of 3.70-3.89.

The Honors List shall include those degree-seeking students who have earned 12 or more college credit hours within a semester and a semester grade point average of 3.00-3.69.

The Honors List also shall include those degree-seeking part-time students (enrolled in 6-11 college credit hours) who have earned 6 or more college credit hours within a semester and a grade point average of 3.00 and above.

Fines

Students cannot register for courses, graduate, and/or receive transcripts until all fees and fines have been paid.

Academic Integrity

Honest participation in academic endeavors fosters an environment in which optimal learning can take place and is consistent with the college's mission. Academic misconduct, including cheating and plagiarism, is destructive to the spirit of an educational environment and therefore cannot be condoned. See the Student Handbook for detailed policy information.

Grades

Each faculty member will explain the grading system employed in each course. Students are responsible for obtaining a clear understanding of this process. Final grades are available the week after the end of each term. Students may access grades on-line through GCSC's LIGHTHOUSE at www.gulfcoast.edu.

A	Excellent - 4 quality points/credit hour
B	Good - 3 quality points/credit hour
C	Average - 2 quality points/credit hour
D	Poor - 1 quality points/credit hour
F	Failure - 0 quality points-credit hour
I	Incomplete - An "I" becomes and "F" within 30 calendar days from end of the term
IP	Course is currently in progress
NS	No Show
P	Passing - 0 quality points-credit hours
S/U	Satisfactory/Unsatisfactory - 0 quality points/credit hour S/U grades are used for non-credit courses for which CEUs are not awarded.
R	Remedial Grade Mode
RW1	Student Withdrawal, Remedial—**See Withdrawals**
RW2	Instructor Withdrawal, Remedial—**See Withdrawals**
RW3	Administrative Withdrawal, Remedial—**See Withdrawals**
W1	Student Withdrawal—**See Withdrawals**
W2	Instructor Withdrawal—**See Withdrawals**
W3	Administrative Withdrawal - **See Withdrawals**
X	Audit - Audits **must** be declared before the end of the drop/add period and cannot be changed to credit

How to Compute Grade Point Average (GPA)

The student's GPA is used in determining academic standing, graduation readiness, eligibility and other academically related decisions.

Each letter grade has a quality point value on the Grading System/Quality Point Scale. A student may determine the grade points for his/her grade in each course by multiplying the number of quality points a grade is worth times the number of semester hours the course carries.

A = 4 quality points, B = 3 quality points, C= 2 quality points, D = 1 quality point, and F and P = 0 quality point

The cumulative grade point average is determined by dividing the total quality points earned by the total semester hours for GPA (including transfer work). Grade quality points are awarded as follows:

Courses	GPA Hours	Grades	Quality Points
ENC1101	3	A	12
MAC1105	3	C	6
SYG2000	3	F	0
SPN1120	4	B	12
EUH1000	3	D	3
EGS1002	1	B	3

Total hours for GPA is 17.   Total Quality Points Earned is 36.

17 hours for GPA divided into 36 quality points earned = 2.11 GPA.

Grades of S, P, NS, R, W, and X do not carry grade quality points. In general, credits for these grades do not count.

Grade Change

All grade changes must be initiated by the instructor and approved by the appropriate division chair and the vice president of academic affairs and learning support. All grade changes must be made within 30 days of the close of each term. Exceptions for extenuating circumstances must be approved by the vice president of academic affairs and learning support.

Grade Forgiveness

Students may repeat a course when a grade of "D" or "F" has been earned. The last grade counts. However, universities may count forgiven grades in calculating the grade point average. Forgiven grades may also be calculated in determining financial aid eligibility.

Excess Hours Advisory Statement

Section 1009.286, Florida Statutes, establishes an "excess hour" surcharge for a student seeking a baccalaureate degree at a state university. It is critical that students, including those entering Florida colleges, are aware of the potential for additional course fees. "Excess hours" are defined as hours that go beyond 110% of the hours required for a baccalaureate degree program. For example, if the length of the program is 120 credit hours, the student may be subject to an excess hour surcharge for any credits attempted beyond 132 credit hours (110 x 120%).

All students whose educational plan may include earning a bachelor's degree should make every effort to enroll in and successfully complete those courses that are required for their intended major on their first attempt. Florida college students intending to transfer to a state university should identify a major or "transfer program" early and be advised of admission requirements for that program, including the approved common prerequisites. Course withdrawals and/or repeats, as well as enrollment in courses non-essential to the intended major, may contribute to a potential excess hours surcharge.

Attendance

Regular class attendance and participation are significant factors that help to promote success in college.   Students are expected to attend all class meetings of all courses for which they are registered.
You are expected to know the instructor's specific attendance policy, as stated in the syllabus for each course. In the event of absence, you should contact your instructor as soon as possible to indicate the reason and to inquire whether make-up work is possible. (Make-up work is offered solely at the discretion of your professor.)

If your absences in a class become excessive, as stated in the course syllabus, your professor may contact you, indicating that further absence may result in your withdrawal from the course. (See entry on Withdrawal in this catalog section.) Your professor can withdraw you from a course for excessive absences without your permission.

Instructors will monitor attendance at the beginning of each semester. If you are not in attendance during this period, you may be withdrawn from the course. You will be financially responsible for the course and a "W or NS" will appear on your transcript. Withdrawal from a course may also have implications for financial aid.

Change of Name, Address, Major

A student should file any change of address, name, marital status, residency or citizenship with the Enrollment Services Office. Students can also change their address online via LIGHTHOUSE and the change is effective immediately. Change of major should be initiated in the Enrollment Services Office. **It is very important to keep the College informed as to correct addresses, so that important information will be received by the student.**

Total Attempts

This policy applies to college-level and college preparatory courses taken for the first time beginning with Fall Semester 1997. Only Gulf Coast State College courses are counted in attempts. Repeatable courses, courses required to be repeated by a regulatory agency, or courses being repeated as part of a regulatory requirement for continuing education to stay current in a field, such as teacher certification, will not be applied to this policy.

A student can only repeat a course with a "D" or "F" grade. There is a maximum of two withdrawals permitted for each course. On the third attempt, a student cannot withdraw and must earn a grade.

A student may enroll three times in each course. On the third attempt and after, a student is assessed full cost of instruction (4 times matriculation). A fourth attempt may be allowed only for students who withdraw or fail due to extenuating circumstances. An exception may be granted only once for each course, provided approval is granted through an academic appeal. The college has the authority to review and reduce fees paid by students, on an individual basis, due to continued enrollment in a course, contingent upon the student's financial hardship.

Exceptions may be granted through an academic appeal process for the following:
- Repeating courses with a grade of "A," "B," or "C"
- Requiring a grade on the third attempt
- Allowing only two withdrawals per course
- Enrolling more than three times
- Limiting to two the number of times a course grade may be forgiven

Students who have successfully completed a college preparatory course with a "C" or better may request, through the appeals process, to audit the same preparatory course. Students will be allowed to audit the course only once. Audits for college and vocational courses declared prior to the end of the drop/add period shall not count as attempts.

Withdrawals

Two withdrawals are permitted per credit course. After that, a grade will be assigned. Please be concerned about withdrawals. When admitting students into certain programs, universities may calculate withdrawals as grades. It is your responsibility to verify the effects of enrollment and/or withdrawal upon your financial assistance (financial aid, scholarships, grants, etc.). There are two kinds of withdrawals---student and administrative.

- Student Withdrawal - Students wishing to withdraw must complete a withdrawal form and submit the form to the Office of Enrollment Services before the scheduled withdrawal deadline as published in the college catalog. Student withdrawals initiated prior to the scheduled withdrawal deadline will be recorded as a grade of "W". The withdrawal deadline for an off-term or condensed term is one week after midterm.

- Administrative Withdrawal – A faculty member may withdraw a student up to the published withdrawal deadline for violation of the class attendance policy in which case the student will receive a grade of "W". The withdrawal deadline for an off-term or condensed term is one week after midterm.

Students cannot withdraw from developmental studies courses (college-preparatory classes) after the drop/add period without written permission from their instructor and/or their academic advisor.

Graduation Procedures

1. Fulfill academic program requirements for degree to include a minimum 25 percent of credit successfully completed at GCSC. The catalog under which a student graduates cannot be older than five years.
2. Earn a 2.00 grade point average on all GCSC courses attempted.
3. Earn a cumulative 2.00 grade point average (including transfer credit).
4. Meet with the Graduation Specialist in the Office of Enrollment Services. Students pursuing a B.A.S., B.S.N., A.S., or certificate must first obtain a program evaluation from their advisor.
5. Submit a graduation application to the Office of Enrollment Services by the published deadline. Students graduating in the Summer or Fall semesters who want to participate in the Spring ceremony must apply for graduation by the preceding Spring deadline date. See general catalog for specific deadline dates.
6. Fulfill all financial obligations to the college.

Maximum Course Load

The maximum load for a student is 18 hours for the fall and spring semesters without written permission of the advisor. Students with a "B" average and written permission of their advisors may carry up to 21 hours. The maximum load for the average student for each summer term is seven hours. A student who has a "B" average may carry nine hours. Written permission of the vice president of academic affairs & learning support is required for a student to register for more than 21 hours in the fall or spring or more than 18 hours in the summer session.

Course Substitution

Applies primarily to Postsecondary Vocational and Certificate programs.

- Student submits appropriate documentation to program manager.
- If approved, program manager sends completed Course Substitution Form to the Enrollment Services Office.

Students receiving VA educational assistance **must** notify the Veterans Affairs Office.

Transcripts

The Buckley Amendment prohibits the release of academic records without the student's signature. To request an official transcript, you must access your Lighthouse account to complete and submit the Transcript Request Form online. There is a $5.00 charge for each Gulf Coast State College transcript. If you are currently enrolled in a class(es), or are planning to graduate at the end of the term, be sure to select "Hold for Grades" and/or "Hold for Degree" to ensure the transcript sent is complete. If neither of these is selected, your transcript will be mailed within 2-3 business days. At the end of each term, please allow an extra week to the processing time in order to allow for grade processing.

Transcripts cannot be e-mailed or faxed by the college to the student, individuals, or other institutions. Gulf Coast State College reserves the right to place a hold on a student's record that will prevent official transcripts to be processed if the student has an outstanding financial obligation. It is the student's responsibility to notify the Enrollment Services Office when all obligations are satisfied in order to have the request processed.

Student Records

All permanent, official, and final student records are maintained in an electronic format. On a periodic basis throughout an academic year, the College is required by state and federal regulations to submit academic data to the Northwest Regional Data Center.

Non-Traditional Credit

Up to 45 hours of nontraditional credit (i.e., CLEP, AP, IB, and AICE) may be applied toward a degree. Duplicate credit will not be awarded. Credits earned will not be included on the official Gulf Coast State College transcript until the student has successfully completed 15 credit hours. For more information visit: www.gulfcoast.edu/students/testing_center/credit_exam/default.htm.

College Level Examination Program (CLEP)

Students may receive CLEP credit for up to 30 credit hours. Information on credit awarded for subject matter exams is available from the Transcript Coordinator in the Enrollment Services Office and online at the GCSC website (www.gulfcoast.edu) under *Student Resources* and click on the **testing** option.

The college accepts CLEP credit as follows:
- Transcripts from a Florida public college/university,
- Official CLEP test score.

Excelsior College Mobility Examinations

Students applying for the RN program with appropriate scores and LPN licenses may receive credit. Contact the Health Sciences Division for additional information.

Cambridge AICE (AICE)

A list of courses and credits awarded for each examination is available from the Transcript Coordinator in the Enrollment Services Office and online at the college website (www.gulfcoast.edu) under *Student Resources* and click on the **testing** option.

Advanced Placement (AP)

Scores of 5, 4, and 3 may be accepted for credit. Students must submit official AP scores to the Enrollment Services Office. Information on credit awarded for subject matters exams is available from the Transcript Coordinator in the Enrollment Services Office and online at the college website (www.gulfcoast.edu) under *Student Resources* and click on the **testing** option.

International Baccalaureate (IB)

A list of courses and credits awarded for each examination is available from the Transcript Coordinator in the Enrollment Services Office and online at the college website (www.gulfcoast.edu) under *Student Resources* and click on the **testing** option.

- Students who have received an IB Diploma may be awarded up to 30 semester credits.
- Information on credit awarded for students without an IB Diploma is available from the Transcript Coordinator in the Office of Enrollment Services Office.

Early Completion by Examination

Students may request permission to challenge a course in which they are enrolled by taking a proficiency examination. Students passing the proficiency examination will be excused from further class attendance.

Military Credit, Prior Training, and Experience

Most military credit, prior training, and experience applies to Associate in Science, Associate in Applied Science, or certificate programs. GCSC uses national standard evaluations systems, such as the American Council on Education's Guide to the Evaluation of Educational Experiences in the Armed Services, and requires students to submit official transcripts of military credit, prior training, and experience for consideration.   Credit will be accepted when it applies to a

degree and when it is comparable in content and credit value to a GCSC course. Upon receipt of official copies of military credit, prior training, and experience credit, an evaluation package is prepared for the Chairperson of the discipline for final approval. Prior training and experience is reviewed by the relevant department chairperson for equivalency and must be applicable to the student's current program of study. Students with documented training certificates may be awarded credit if the training meets the academic standards and is relevant to the College's instructional program. For those with prior experience, credit may be awarded based on successful completion of the final exam for the course in which the student is seeking credit. Appropriate documentation supporting evidence of credit must be submitted to Enrollment Services for processing.

No credit is extended for military credit, prior training, and experience not applicable to the student's current program of study or when there is no GCSC equivalent. Students can request a subsequent evaluation of these records if his or her program of study changes. Requests should be placed in the Office of Enrollment Services. Information on credit awarded for subject matters exams (DANTES) is available from the Transcript Coordinator in the Office of Enrollment Services.

Servicemembers Opportunity College (SOC)

The American Association of Community Colleges has designated Gulf Coast State College as a Servicemen's Opportunity College (SOC). Under this agreement, GCSC recognizes that service members and their dependents should not be penalized for attending multiple academic institutions due to their military contribution. Students may complete degree requirements at other accredited colleges as a transient student and transfer those credits to GCSC as part of the degree requirements. For information on how to become a transient student see page 14. Students who participate in SOC are still required to satisfy the Gulf Coast residency requirement by completing 25 percent of the degree program at GCSC. For more information, please call (850) 283-4332.

Academic Standing

College Credit and Vocational Credit. In determining academic progress, college credit, vocational credit, and preparatory credit are combined. "Attempted" is defined as all courses in which a student has processed an official registration and in which a student remains enrolled after the drop/add period.

Transfer courses, courses taken for audit, and courses for which a student receives a refund will not be included in the determination of academic standing.

Academic Standards

To maintain satisfactory academic progress at Gulf Coast, a student must achieve a minimum cumulative grade point average (GPA) of 2.0. This is considered **Good Academic Standing**.

Academic Warning. Students whose TERM GPA is below 2.0 will be placed on Academic Warning. To be removed from Academic Warning at the end of the following term, the student must achieve a minimum cumulative GPA of 2.0. Academic Warning is the college's notification that the student should seek assistance from the Counseling Center, or Career Center to assist in developing an education plan.

Academic Probation. Students who have been placed on Academic Warning one term and fail to reach a cumulative GPA as described below will be placed on Academic Probation.

- 1-14 attempted credit hours and an earned GPA of 1.49 or lower
- 15-29 attempted credit hours and an earned GPA of 1.74 or lower
- 30 or more attempted credit hours and an earned GPA of 1.99 or lower

To be removed from Academic Probation, a student must achieve a minimum cumulative GPA of 2.0.

Academic Suspension. Students who have been placed on Academic Probation and have not earned a minimum cumulative GPA of 2.0 during their probation term, will be placed on Academic Suspension for the following term (Fall, Spring).

Students on Academic Suspension are prohibited from enrolling in credit courses at Gulf Coast for the following term (Fall, Spring).

Students have the right to appeal an academic suspension decision. In order to appeal the academic suspension decision the student must complete and submit the Academic Suspension Appeal Request for Hearing form and participate in the Academic Suspension Appeal Hearing.

In order for a student to return to **Good Academic Standing**, the student must achieve a cumulative GPA of 2.0.

Maximum Credit Hour Limit for Need Based Aid Students

Students who have attempted in excess of 90 credits (including credits transferred in from other institutions) prior to the beginning of an academic year are not eligible to receive federal, state, or GCSC need-based aid at Gulf Coast State College. Students exceeding 90 attempted credits during the academic year will be allowed to receive, through the end of the academic year, any need-based aid for which they are otherwise eligible.

Bachelor of Science Degree Programs

Gulf Coast State College offers Bachelor's Degree programs in the following areas:

The Bachelor of Applied Science (B.A.S.) Degree

The Bachelor of Applied Science (B.A.S.) degree is a baccalaureate degree designed to prepare students to enhance and/or advance their career. B.A.S. programs provide baccalaureate degree completion opportunities for students from a variety of educational backgrounds but primarily those with Associate of Science or Associate of Applied Science degrees or their equivalent. B.A.S. degree programs typically include capstone experiences that provide opportunities for students to demonstrate the application of acquired knowledge, skills, and competencies. The B.A.S. degree is awarded upon the completion of the course requirements in the Technology Management program.

The Bachelor of Science in Nursing (B.S.N.) Degree

The Bachelor of Science in Nursing program is an RN-BSN completion program that builds from associate in science degree coursework, allowing an RN with an associate's degree in nursing to earn a Bachelor of Science degree with a major in nursing. (Students with a diploma in Nursing will be evaluated individually after application to the College.) The program is competitive and limited.

Bachelor Degree Graduation Requirements

To receive a bachelor's degree, students must:
1. Satisfy the requirements for the chosen major;
2. Successfully complete a minimum of 120 semester hours with at least a "C" average (2.0 GPA) for an all college cumulative grade point average that includes Gulf Coast State College and transferred credits in lower and upper division courses;
3. Successfully complete a minimum of 30 of their last 36 hours in regular courses at Gulf Coast State College;
4. Apply no more than 45 semester hours in any combination of extension, correspondence, CLEP, University Credit by Examination and Armed Forces credits toward an undergraduate degree;
5. Satisfy Gulf Coast State College's General Education Requirements;
6. Satisfy the Foreign Language requirement. Students may fulfill the requirement in any of the following manners:
   a. Complete eight semester hours of the same foreign language.
   b. Successful completion of two sequential high school credits in one foreign language as listed in status 1007.262 and DOE Board Rule 6A.10.02412. The student is responsible to send official high school transcripts to the Registrar's office for evaluation.
   c. Submit an English translated high school course-by-course transcript from a country of origin; exits test scores or certificates not acceptable. Students must have an English translation performed, at students' expense, by a member of the National Association of Credential Evaluation Services (NACES). Examples of acceptable services are Josef Silny & Associates and World Education Services.
   d. Achieve appropriate College Level Examination Program (CLEP) level one and two scores in French, German, and Spanish.
7. Submit an application for graduation as outlined in the Graduation Procedures section of this catalog.
8. Fulfill all financial obligations to the college.

● General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

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Bachelor of Applied Science in Digital Media Program of Study (DIMA-BAS/DIGM-BAS)

Program Goal: The Bachelor of Applied Science in Digital Media undergraduate degree program is designed to prepare graduates with the requisite knowledge, skills, and values to effectively apply various business principles and tools in an organizational setting. The BAS-DM is a program designed to balance theory and concepts with practical application and tools. The program of study will include areas such as digital media, simulations, and web-based technology. The interdisciplinary approach to this degree allows students to integrate courses from several specialized areas in computing. Graduates of this program will be prepared for a variety of entry and mid-level technical and management positions within the digital media, web technology, and computing industries.

Students pursuing the DIGM-BAS degree must take SPC4445 at FSU as a transient student. This requires submission of four documents:
1. Transient Student Application to FSU-PC.
2. FSU Student Health History Form to FSU-PC.
3. Consortium Agreement to Gulf Coast State College. Complete host school information before submitting to GCSC Enrollment Services. Note: you must include a copy of your schedule and fee receipts in your submission to GCSC.
4. Bachelors of Applied Science Transient Student Authorization Form.

BAS Total Degree Credits, (120 crs.)
General Education, (36 crs.)
Credits from AS/AA, (42 crs.)
Upper Division, (42 crs.)

General Education Requirements
>   *The General Education Requirements are outlined on page 68. All students must have a total of 36 credits of General Education courses for the B.A.S. degree. Most students entering the program will need an additional 21 general education credits. The specific courses needed will vary among students. Please contact a B.A.S. advisor for assistance.

Communications Area		Credit Hours
	●+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	Approved College-level Math (MAC/STA)	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	●PSY2012 or ●SYG2000, Psychology/Sociology	3
History	EUH1000 or 1001, Western Civilization	3
Government	●POS2041, American National Government	3
Digital Media Courses		
	+DIG4591, Multimedia Production & Design Group	3
	+ISM4212, Database Design & Administration	3
	+CTS3425, Advanced Web Page Publishing – ASP	3
	+COP3855, Advanced Web Animation (JQuery)	3
	+DIG3543, Media Planning	3
	+DIG3553, Interactive Media Design	3

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●General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

	+DIG4433, Visual Development	3
	+DIG4570, Digital Media Production Techniques	3
	+DIG3525, Digital Production Studio I	3
	+DIG3526, Digital Production Studio II	3
	+BUL3564, Legal Aspects of Managing Technology	3
	+SPC4445, Group Dynamics & Leadership (FSU)	3
	+MAN3303, Principles of Management and Leadership	3
	+ISM4314, Project and Change Management for IT	3

Additional graduation requirements: Students must have fulfilled the requirement for the chosen major, earned a minimum of 25 percent of the total hours required for the degree in residence at Gulf Coast State College, fulfill the College Level Communication and Computational Skills Assessment requirements according to Florida Rule 6A-10.030, demonstrate foreign language competence, and be registered at Gulf Coast State College during the semester of graduation.

● General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

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Bachelor of Applied Science in Organizational Management Program of Study (ORGA-BAS) (ORGM-BAS)

The Bachelor of Applied Science in Organizational Management at Gulf Coast State College is designed to prepare students to become effective leaders in organizations and society. Program specializations in Entrepreneurship, Health Services Administration, and Emergency Services Administration will prepare graduates for administrative and managerial positions in business,
health care, emergency/fire services and other related careers.

The B.A.S. in Organizational Management is specifically designed for people who possess skills in health care, emergency management or entrepreneurship, and want to advance to higher level supervisory/leadership positions. The program is intended to serve those currently in the workforce who need a baccalaureate degree to advance their career opportunities. Upper-level coursework will include study of applied management practices with a concentration in the student's technical field, and will contain hands-on application of management principles and practices through internships and capstone experiences. Program graduates will be able to initiate and respond to change through leadership, teamwork and organizational effectiveness skills, and their critical thinking, problem-solving and decision-making skills will enable them to view situations from new perspectives in order to find new solutions.

The Bachelor of Applied Science in Organization Management program is a 120-credit hour bachelor's program which provides a 24-credit hour core in Management, augmented by an 18-credit hour concentration in one of three specializations: Entrepreneurship, Health Services Administration, or Emergency Services Administration. Admissions requirements include the completion of an associate's degree program from an accredited school or college, and
documentation of a GPA of 2.00 or higher in all college credit courses. As detailed below, the program requires completion of a total of 120 credit hours: 42 hours in associate's degree transfer credits, 36 hours in General Education, 24 hours in the Organizational Management program core, and 18 hours in the student's chosen concentration.

Admission Requirements:
1. Completion of Application for General Admission to GCSC.
2. Submission of all official transcripts by established deadline.
3. Submission of official transcripts from college(s) currently or previously attended. Transcripts must indicate completion of an A.S. or A.A. degree of at least sixty (60) credits from a regionally accredited institution.
4. Completion of a minimum of fifteen (15) semester hours of transferrable general education coursework.
5. Documentation of a Grade Point Average (GPA) of 2.00 or higher in all postsecondary coursework.
6. Completion of the standard Florida foreign language upper division admission requirement. If at the time of admission the student has not completed two sequential high school credits in the same foreign language or eight semester hours in college, the student must complete eight semester hours of foreign language before completing the program.

Students pursuing the ORGM-BAS degree must take coursework at FSU-PC as a transient student. This requires submission of the following documents:

1. Transient Student Application to FSU-PC.
2. FSU Student Health History Form to FSU-PC.
3. Consortium Agreement to Gulf Coast State College. Complete host school information before submitting to GCSC Enrollment Services. Note: you must include a copy of your schedule and fee receipts in your submission to GCSC.
4. Bachelors of Applied Science Transient Student Authorization Form.

BAS Total Degree Credits, (120 crs.)
General Education, (36 crs.)
Credits from AS/AA, (42 crs.)
Upper Division, (42 crs.)

General Education Requirements
*The General Education Requirements are outlined on page 68. All students must have a total of 36 credits of General Education courses for the B.A.S. degree. Most students entering the program will need an additional 21 general education credits. The specific courses needed will vary among students. Please contact a B.A.S advisor for assistance.

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•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

Communications Area	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area	Approved College-level Math (MAC/STA)	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•PSY2012 or •SYG2000, Psychology/Sociology	3
History	EUH1000 or 1001, Western Civilization	3
Government	•POS2041, American National Government	3
Organizational Management Core Courses		
	+BUL3310, Legal Environments of Business (FSU)	3
	+COM3120, Organizational Communication (FSU)	3
	+FIN3400, Financial Management	3
	MAN3240, Applied Organizational Behavior (FSU)	3
	+MAN3303, Principles of Management and Leadership	3
	+MAN3503, Management Risk Analysis and Decision-Making	3
	+MAN4143, Contemporary Leadership Challenges (FSU)	3
	+MAN4520, Quality Management (Six Sigma)	3
Specialization Areas (Choose one):		
SPECIALIZATION IN ENTREPRENEURSHIP (18 credits)	+FIN4470, Entrepreneurial Finance	3
	+ENT3003, Principles of Entrepreneurship	3
	+MAR4413, Sales, Negotiating, and Customer Relationship Management	3
	+MAR4836, Concept and Product Development	3
	+MAR3802, Marketing Management	3
	+MAN4900, Capstone	3
SPECIALIZATION IN EMERGENCY SERVICES (18 credits)	+FES3533, Community Risk Reduction During Crisis for Emergency Services	3
	+DSC3783, Political and Legal Issues Facing Emergency Responders	3
	+DSC3064, Security and Emergency Communications	3
	+DSC4755, National Security	3
	+DSC4013, Capstone Project in Public Safety	6
SPECIALIZATION IN HEALTH SERVICES ADMINISTRATION (18 credits)	HSA3553, Legal Issues in Healthcare	3
	HSA3113, Current Trends/Contemporary Issues in Healthcare	3
	HSA3700, Foundations of Research in Healthcare	3
	HSA4110, Healthcare Organization and Management	3
	HSA4160, Strategic Planning and Marketing for Healthcare	3
	+HSA4850, Internship/Capstone	3

Additional graduation requirements: Students must have fulfilled the requirement for the chosen major, earned a minimum of 25 percent of the total hours required for the degree in residence at Gulf Coast State College, fulfill the College Level Communication and Computational Skills Assessment requirements according to Florida Rule 6A-10.030, demonstrate foreign language competence, and be registered at Gulf Coast State College during the semester of graduation.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

Bachelor of Applied Science in Technology Management Program of Study (TM-BAS) (TM-BAS)

Program Goal: This program is designed for students who have completed an AS in Computer Integrated Manufacturing, Computer Programming and Analysis, Computer Networking Systems, E-Business, Electronics Engineering Technology, Digital Media (Web Development or Gaming Emphasis) or a similar technical degree from GCSC or another institution with a desire to increase their technical skills in their chosen area of specialty. After completing the B.A.S. in Technology Management degree, students will be prepared for leadership and supervision positions while offering advanced technical experience.

BAS Total Degree Credits, (120 crs.)
Associate of Science, (63 crs.)
Additional General Education Course Requirements*, (21 crs.)
Technology Management Core Requirements, (21 crs.)
Specialization in Control Engineering or Specialization in Information Technology, (15 crs.)

General Education Requirements
*The General Education Requirements are outlined on page 68. All students must have a total of 36 credits of General Education courses for the B.A.S. degree. Most students entering the program will need an additional 21 general education credits. The specific courses needed will vary among students. Please contact a B.A.S advisor for assistance.

Communications Area	●+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	Approved College-level Math (MAC/STA)	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	●PSY2012 or ●SYG2000, Psychology/Sociology	3
History	EUH1000 or 1001, Western Civilization	3
Government	●POS2041, American National Government	3
Organizational Management Core Courses		
TECHNOLOGY MANAGEMENT CORE COURSES		
	+MAN3303, Principles of Management & Leadership	3
	+BUL3564, Legal Aspects of Managing Technology	3
	+FIN3400, Financial Management	3
	+ISM4314, Project and Change Management for Technology	3
	MAN3240, Applied Organizational Behavior (FSU)	3
	+MAN4520, Quality Management (Six Sigma)	3
	+ISM4302, Emerging Technologies	3
	+MAN3503, Managerial Risk Analysis and Decision Making	3
	+MAN4900, Capstone Project	3
SPECIALIZATION IN CONTROL ENGINEERING TECHNOLOGY (Choose 15 credits)		
	+CET3135C, Microcontroller Technology w/Lab	4
	+EET4328, Wireless Systems	3
	+EET3218C, Control Systems Technology	4
	+EET4935, Special Topics in Electrical Engineering	3

●General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

	Technology	
	+ETI3418, Computer Numerical Control Systems	3
	+ETI3621, Techniques in Lean Manufacturing	3
	+ETI4480, Applied Robotics	3
	+ETI4704, Occupational Safety	3
	+ETS3650C, Industrial Networking	3
SPECIALIZATION IN INFORMATION TECHNOLOGY (15 Credits)		
	+ ISM4212, Database Design and Administration	3
	+ ISM4330, Information Security Policy Administration and Management	3
	+COP4640, Operating Systems	3
	+CAP4774, Data Warehousing	3
Select one of the following:		
	+CTS3425, Advanced Web Page Publishing - ASP	3
	+COP3855, Advanced Web Animation (JQuery)	3
	+ISM4154, Enterprise-wide System Implementation and Administration	3

Additional graduation requirements: Students must have fulfilled the requirement for the chosen major, earned a minimum of 25 percent of the total hours required for the degree in residence at Gulf Coast State College, fulfill the College Level Communication and Computational Skills Assessment requirements according to Florida Rule 6A-10.030, demonstrate foreign language competence, and be registered at Gulf Coast State College during the semester of graduation.

●General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

The Bachelor of Science Program

Bachelor of Science in Nursing
(RNBA-BSN)

The Bachelor of Science in Nursing at GCSC is an RN to BSN completion program that builds from the Associate of Science in Nursing allowing a licensed RN to earn a Bachelor of Science degree with a major in nursing. (Students with a diploma in nursing will be evaluated individually after application to the college.) The program is competitive and limited, and preference will be given to residents of Bay, Gulf, and Franklin counties.

The following degree plan is only appropriate for the student who is already a registered nurse. For initial entry into the GCSC nursing program, please see the requirements for Nursing, Associate degree.

Program Goal: The Bachelor of Science in Nursing is designed to prepare licensed nurses for evidence-based practice and leadership in an ever-changing health care environment. BSN Graduates will also have the opportunity to continue their education in a variety of specialty areas.

Communications Area	●+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	●+*STA2023, Statistics	3
	Approved College-level Math (MAC/MGF)	3
Natural Sciences Area		
Physical Science	CHM1032, General, Organic, Biochemistry or higher level chemistry (CHM 1040 & 1045 are acceptable)	3
Biological Science	+BSC2085, Anatomy and Physiology	3
Social Sciences Area		
Behavioral Sciences	●PSY2012 or ●SYG2000, Psychology/Sociology	3
History	EUH1000 or 1001, Western Civilization	3
Government	●POS2041, American National Government	3
ASSOCIATE DEGREE/DIPLOMA IN NURSING		**48**
CORE COURSES		
	*NUR3069, Advanced Health Assessment	3
	*NUR3119, Nursing Concepts and Theories	3
	*NUR3128, Pathophysiology	3
	+*NUR3167, Research Process for Professional Nursing	3
	*NUR3895, Teaching and Learning for the Healthcare Professional	3
	*NUR3636C, Community Health	4
	*NUR3925, Symposium I	1
	*NUR4655, Multicultural Factors in Health	3
	*NUR4827C, Leadership and Management	4
	+*NUR4925, Symposium II	1
	*NUR4837, Health Care Policy and Economics	3
	*NUR4847, Clinical Decision Making	3
	*NUR4945C, Nursing Capstone Practicum	2

●General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

Admission Requirements:

1. Completion of an associate's degree program or diploma program in nursing from an accredited school or college.
2. Documentation of current RN licensure with no restrictions.
3. Completion of Application for General Admission to GCSC.
4. Completion of Health Sciences Division Application for the RN to BSN program.
5. Submission of all official transcripts by established deadline.
6. Documentation of a Grade Point Average (GPA) of 2.50 or higher in all college credit courses and a "C" or higher in all prerequisite courses applicable to the RN to BSN program.
7. Completion of the standard Florida foreign language upper division admission requirement. If at the time of admission the student has not completed two sequential high school credits in the same foreign language or eight semester hours in college, the student must complete eight semester hours of foreign language before completing the program.
8. Completion of all required common pre-requisites.

The following is required after acceptance into the B.S.N. program:
- Documentation of current PPD or TB test
- Current CPR certification
- Physical examination form
- Immunization form
- Background check required. Admission will be contingent on a satisfactory fingerprint/criminal background check.
- Drug screening may be required according to individual clinical site

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

The Associate in Arts Degree

The Associate in Arts (A.A.) degree is comprised of the freshman and sophomore years of a baccalaureate degree, also known as a four-year degree. The A.A. degree is specifically designed for the student who plans to transfer to a Florida public university.

The A.A. degree requires a minimum of 60 college-level credit hours. Thirty-six (36) credit hours are specified as the *general education* component of the degree and twenty- four (24) credit hours are referred to as *elective*. These elective courses may be utilized to satisfy specific university major requirements. Students who intend to pursue a specific major at the university should follow the **transfer track** that most closely aligns to the intended major at the university. Each transfer track details courses that are required for transfer to the specific major at the university. These courses are noted as **common prerequisite** courses and when completed successfully, enable the student to transfer to the university as a junior.

Completion of the A.A. degree guarantees admission to a state university but not necessarily admission to the specific program of study within the institution. Some university majors are known as *limited access* and may include additional requirements such as a minimum grade point average, an audition, submission of a portfolio, or completion of certain courses. Please consult a Gulf Coast academic advisor or access the Florida Virtual Campus at www.flvc.org for additional information.

Although the A.A. degree does not guarantee admission to a private and/or out-of-state institution, a student may consult an academic advisor for further assistance.

Beginning with fall 2014, all first-time-in-college students pursuing the Associate in Arts degree must demonstrate competency in a foreign language. This competency is ordinarily demonstrated through completion of two credits of sequential high school foreign language OR successful completion of two semesters of foreign language at the postsecondary level. Basic American Sign Language (ASL1400/ASL1401) does not meet this requirement.

The general education curriculum coursework is intended to provide students with a foundation to communicate, to be a responsible member of the global community, to think critically, and to exhibit scientific and quantitative reasoning skills at a postsecondary level. Students will demonstrate learning in these areas as articulated in the following student learning outcomes.

Communication:
C-1: Students will demonstrate the ability to communicate effectively.
C-2: Students will demonstrate the ability to analyze communication critically.
Humanities:
H-1: Students will confirm the ability to think critically
through demonstrating interpretive ability and cultural literacy.
H-2: Students will acquire competence in reflecting critically upon the human condition.
Mathematics:
M-1: Students will determine appropriate mathematical
and computational models and methods in problem solving,
and demonstrate an understanding of mathematical concepts.
M-2: Students will apply appropriate mathematical and computational models and methods in problem solving.
 N-Natural Sciences
N-1: Students will demonstrate the ability to critically examine and evaluate scientific observation, hypothesis, or model construction, and to use the scientific method to explain the natural world.
N-2: Students will successfully recognize and comprehend fundamental concepts, principles, and processes about the natural world.
Social Sciences:
S-1: Students will demonstrate the ability to examine behavioral, social, and cultural issues from a variety of points of view.
S-2: Students will demonstrate an understanding of basic social and behavioral science concepts and principles used in the analysis of behavioral, social, and cultural issues, past and present, local and global.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

UNIVERSITY TRANSFER TRACKS

General Associate in Arts
Accounting
Agricultural Science Anthropology/Archaeology Architecture
Art
Biology
Building Construction
Business Administration Business Teacher Education Chemistry
Chiropractic Medicine
Communication-Advertising/Public Relations
Communication-Journalism
Communication-Radio/Television Broadcasting
Communication-Speech Computer Information Systems Computer Science
Computer Science and Software Engineering
Criminology/Criminal Justice
Dental Medicine
Early Childhood Education
Economics
Economics for Business
Elementary Teacher Education
Engineering
English
Entomology
Environmental Science: Natural Science Option
Environmental Science: Policy Option
Foreign Language
Forestry
Geology
Health Education
Health Administration, Information, and Science
History
Information Technology
Landscape Operations and Management
Legal Studies
Marine Biology
Mathematics
Mathematics Education
Medical
Medical Technology
Meteorology
Middle School Science Education
Music
Nursing
Nutrition, Food, and Exercise Science
Occupational Therapy
Oceanography
Optometry
Ornamental Horticulture
Pharmacy
Philosophy
Physical Education Physical Therapy Physics
Political Science
Psychology Radiologic Science Recreation Religion
Respiratory Care (Therapy)
Science Education

● General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

Social Studies Education
Social Work
Sociology
Special Education
Sports Medicine/Athletic Trainer
Theatre
Veterinary Medicine
Women's Studies

Graduation Requirements for the Associate in Arts Degree

Although the A.A. degree does not indicate a specific major, it is strongly encouraged that students complete the A.A. degree prior to transferring to a public university in Florida. All A.A. degree recipients must meet the following requirements for graduation:

1. Successfully complete a minimum of 60 credit hours of acceptable college-level credit.
2. Successfully complete the 36 credit hours of general education courses.
3. Successfully complete a minimum of 24 credit hours of A.A. designated electives.
4. Earn a minimum cumulative grade point average (GPA) of 2.00, including all transfer credits and courses attempted at GCSC. In addition, a student must earn a minimum cumulative GPA of 2.00 on all GCSC courses.
5. Complete 25 percent of college-level credit hours at GCSC (a minimum of 15 credit hours).
6. Submit an application for graduation as outlined in the Graduation Procedures section of this catalog.
7. Fulfill all financial obligations to the college.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

The Associate in Arts Degree Program of Study

All students intending to graduate with an A.A. degree and planning to transfer to the university to pursue a specific major are required to complete the following curriculum.

To assure that graduates of the state university and state college systems share a common base of General Education requirements, the State of Florida has designated general education core course options in each of five areas of study—Communication, Humanities, Mathematics, Natural Sciences, and Social Sciences. Beginning with students initially entering a Florida College System institution or state university in 2015-2016 and thereafter, each student must complete at least one identified core course (designated with •) in each area of study as part of the general education course requirements.

GENERAL EDUCATION COURSES

Communication Area (6 crs.)
o *Students will demonstrate the ability to communicate effectively.*
o *Students will demonstrate the ability to analyze communication critically.*

Any student who successfully completes a course with an ENC prefix for which ENC1101 is an immediate prerequisite shall be considered to have completed the communication core.

- ENC1101, English Composition I, (3 crs.)
  ENC1102, English Composition II, (3 crs.)

Humanities Area (9 crs.)
o *Students will confirm the ability to think critically through demonstrating interpretive ability and cultural literacy.*
o *Students will acquire competence in reflecting critically upon the human condition.*

In order to fulfill the Humanities area requirement, students must choose at least one course from each discipline (Visual & Performing Arts, Philosophy/Religion, and Literature). At least one course in the Humanities area must be a core option course (designated with •).

Discipline: Visual & Performing Arts (choose one, 3 crs.)
- ARH2000, Understanding Visual Arts
  ARH2050, Art History I ARH2051, Art History II
  ARH2060, History of Architecture
- MUL2010, Understanding Music
  MUL2110, Survey of Music Literature
- THE2000, Understanding Theatre
  THE2071, Survey of Film

Discipline: Philosophy/Religion (choose one, 3 crs.) (Students must complete ENC1101 with a minimum grade of "C" before taking Philosophy/Religion courses, which also require completion with a minimum grade of "C.")
PHH2060, Introduction to Classical Philosophy
PHI2002, Introduction to Modern and Contemporary Philosophy
- PHI2010, Introduction to Philosophy
  PHI2600, Ethics
  PHI2635, Biomedical Ethics
  REL2000, Introduction to Religion
  REL2121, Introduction to Religion in America
  REL2300, Religions of the World REL2315, Eastern Religions SPN2200, Second-Year Spanish I

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

Discipline: Literature (choose one, 3 crs.)
(Students must complete ENC1102 with a minimum grade of "C" before taking Literature courses, which also require completion with a minimum grade of "C.")

    AML2010, American Literature through the Civil War
    AML2020, American Literature: Reconstruction to Present
    AML2600, African-American Literature
    ENG2111, Literature and Film
    ENL2012, English Literature through the 18th Century
    ENL2022, English Literature: Romantics to Present
- LIT2000, Introduction to Literature
    LIT2040, World Drama
    LIT2090, Contemporary Literature
    LIT2110, World Literature: Ancient – Renaissance
    LIT2120, World Literature: Enlightenment to Present
    LIT2380, Women in Literature

Mathematics Area (6 crs.)

o *Students will determine appropriate mathematical and computational models and methods in problem solving, and demonstrate an understanding of mathematical concepts.*
o *Students will apply appropriate mathematical and computational models and methods in problem solving.*

Any student who successfully completes a mathematics course for which one of the general education core course options in mathematics is an immediate prerequisite shall be considered to have completed the mathematics core.

NOTE: Mathematics course requirements are determined by student's choice of major. Consult an academic advisor for more information.

Discipline: Mathematics (choose at least one core option course [designated with •] from the list below)
- MAC1105, College Algebra
- MAC2311, Calculus with Analytical Geometry I
- MGF1106, Mathematics for Liberal Arts I
- MGF1107, Mathematics for Liberal Arts II
- STA2023, Statistics

Plus at least three additional hours at the level of STA, MAC, or MFG as approved by advisor and/or defined by major.

Natural Sciences Area (6 crs.)

o *Students will demonstrate the ability to critically examine and evaluate scientific observation, hypothesis, or model construction, and to use the scientific method to explain the natural world.*
o *Students will successfully recognize and comprehend fundamental concepts, principles, and processes about the natural world.*

Any student who successfully completes a natural science course for which one of the general education core course options in natural science is an immediate prerequisite shall be considered to have completed the natural sciences core.

In order to fulfill the Natural Sciences area requirement, students must complete both a Physical Science and a Biological Science course. At least one course in the Natural Sciences area must be a core option course (designated with •).

    Discipline: Physical Sciences (choose one, 3 crs.)
- AST1002, Descriptive Astronomy
- CHMX020, Chemistry for Liberal Studies
    CHM1032, General, Organic, Biochemistry
    CHM1040, Fundamentals of Chemistry
- CHM1045, General Chemistry
- ESC2000, Earth and Space Science Survey
- EVR1001, Introduction to Environmental Science
    GLY1010, Physical Geology

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

GLY1032, Natural Disasters

MET1010, Introductory Meteorology

OCE1001, Fundamentals of Oceanography

- PHY1020, Basic Concepts of Physics

PHY1023, Survey of General Physics

- PHY2048, University Physics I
- PHY2053, College Physics I

Discipline: Biological Sciences (choose one, 3 crs.)

BOT2800, Plants and Society

- BSC1005, General Biological Science

BSC1020, Human Biology

- BSC2010, Biology for Science Majors I
- BSC2085, Human Anatomy and Physiology I

BSC2311, Introduction to Marine Biology

Social Sciences Area (9 crs.)

- o *Students will demonstrate the ability to examine behavioral, social, and cultural issues from a variety of points of view.*
- o *Students will demonstrate an understanding of basic social and behavioral science concepts and principles used in the analysis of behavioral, social, and cultural issues, past and present, local and global.*

In order to fulfill the Social Sciences area requirement, students must choose at least one course from each discipline (Behavioral Sciences, History, and Government). From the two courses taken in History and Government, students are expected to take one Global course and one U.S. course. At least one course in the Social Sciences area must be a core option course *(*designated with •).

Discipline: Behavioral Sciences (choose one, 3 crs.)

- ANT2000, Introduction to Anthropology
- ECO2013, Principles of Economics, Macro
- PSY2012, General Psychology
- SYG2000, Principles of Sociology

Discipline: History (choose one, 3 crs.)

Global:

EUH1000, Western Civilization I

EUH1001, Western Civilization II

U.S.:

AMH2010, United States History I

- AMH2020, United States History II

Discipline: Government (choose one, 3 crs.)

Global:

CPO2002, Comparative Government

U.S.:

- POS2041, American National Government

POS2112, State and Local Government

New students who were initially admitted as first-time-in-college students in fall 2014 or thereafter, pursuant to s. 1007.25, F.S., must meet foreign language competency as specified in s. 1007.262, F.S. This competency is ordinarily demonstrated through completion of two credits of sequential high school foreign language OR successful completion of two semesters of foreign language at the postsecondary level. Basic American Sign Language (ASL1400/ASL1401) does not meet this requirement.

No more than two physical education/activity semester hours may be used for the A.A. degree. No more than six hours of Cooperative Education may be used for the A.A. degree. No more than 30 hours of College Level Examination Program (CLEP) credit may be used for the A.A. degree.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.

+ Prerequisites and/or corequisites required. See course descriptions.

* Minimum grade of "C" required.

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•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ACCOUNTING
(ACCT-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for an advanced education at the university level. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*STA2023, Statistics	3
	+*MAC2233, Calculus for Business	3
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	CGS1570, Microcomputer Applications	3
	*ACG2001, Financial Accounting I	3
	+*ACG2011, Financial Accounting II	3
	+ECO2023, Economics, Micro	3
	+ACG2071, Managerial Accounting	3
Electives		9
TOTAL DEGREE HOURS		**60**

RECOMMENDED ELECTIVE:
CGS2518, Spreadsheets for Business Environments, 3 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/AGRICULTURAL SCIENCE
(AGSC-AA)**

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies in agriculture and the related areas of agronomy, botany, entomology, soil science, and veterinary medicine. Agriculture science impacts government, academic, and corporate areas of the food industry. Please see the advisor for assistance in selecting appropriate elective courses relative to the interest area in agriculture. Florida A & M University offers the B.S. degree in agriculture science. The University of Florida has similar programs. It is strongly recommended that students be familiar with the admissions requirements of the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*STA2023, Statistics	3
	+*MAC1140, Pre-Calculus Algebra	3
Natural Sciences Area		
Physical Science	•+CHM1045, General Chemistry	3
Biological Science	•+BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Majors I Lab	1
	BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Majors II Lab	1
	+CHM1045L, General Chemistry Lab	1
	+CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	+*MAC1114, Trigonometry	3
	+SPC1608, Introduction to Public Speaking	3
	CGS1570, Microcomputer Applications	3
	•+SYG2000, Sociology or •PSY2012, Psychology	3
Electives		1
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/ANTHROPOLOGY/-
ARCHAEOLOGY
(ANTH-AA)**

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in anthropology or archaeology. Anthropologists study human origins, languages, social institutions and customs. Archaeologists study the artifacts of prehistoric and historic peoples and attempt to reconstruct the culture and social practices of such people. This transfer track will also prepare students for a teaching career in anthropology or archaeology. Students should expect to complete graduate studies in preparation for a career in anthropology or archaeology.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	•ANT2000, Introduction to Anthropology	3
	ANT2100, Introduction to Archaeology	3
Electives	GEO1000, Introduction to Geography, 3 crs.	18
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ARCHITECTURE
(ARCH-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for entry into the Bachelor of Science in Architectural Studies degree program.

It is desirable that students transferring to a senior institution plan their program so that common prerequisites can be completed for the upper-division transfer school for their major. It is best for the student to complete the entire two-year degree program prior to transfer, as A.A. graduates who transfer to one of the institutions in the Florida State University System (SUS) enjoy certain protections under the statewide articulation agreement. These rights are presented in the "Student Bill of Rights."

Gulf Coast State College offers the necessary prerequisites for most of the State of Florida University Baccalaureate Programs. Students are encouraged to consult a current catalog from the upper-division school where they plan to transfer in addition to meeting with a college advisor or faculty member to acquire an official program plan of study for their intended major. GCSC has an Articulation agreement with Florida A&M University (FAMU); the University of Florida and University of South Florida have similar programs.

It is highly recommended that, in addition to the common prerequisites listed below, students should consult the current catalog from the desired transfer university. Some programs have restricted access or are considered Limited Access programs. Students are responsible for completing the specific requirements for admissions. For more information on the A.A. to B.S. articulation, contact your program advisor.

PRIMARY ADVISOR: Antonio Adessi LEED AP, (850) 769-1551, ext. 5887 or e-mail aadessi@gulfcoast.edu.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	+ARH2060, History of Architecture	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus I	3
	See General Education Requirement	3
Natural Sciences Area		
Physical Science	•+PHY2053, College Physics	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+PHY2053L, College Physics Lab	1
	+#ARC1301C, Design 1.1	4
	+#ARC1302C, Design 1.2	4
	+ETD2395, CAD for Architecture	3
Electives	+ ARC2303C, Design 2.1, 4 crs.	12
	+ ARC2304C, Design 2.2, 4 crs.	
	+ BCN2405, Statics and Strength of Materials, 3 crs.	
	BCN1230, Materials and Methods, 3 crs.	
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ART
(ART-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in the visual arts. Visual arts is a limited access program at most universities. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend. For example, some visual arts specialized programs within a university require two years of a foreign language.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	•ARH2000, Understanding Visual Art	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+ART1201C, Design I	3
	+ART1203C, Design II	3
	ART1300C, Drawing I	3
	+ART1301C, Drawing II	3
	+ARH2050, Art History Criticism I	3
	+ARH2051, Art History Criticism I	3
	ART2955, Portfolio and Resume Development	3
Electives	Approved visual arts or photography electives	3
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/BIOLOGY
(BIO-AA)

AREA OF CONCENTRATION: This transfer track prepares students for entering the university as a biology major. Generally, most state universities offer a B.S. or B.A. in biology or related life science fields such as botany, zoology, microbiology and cell science, entomology, plant science, animal science, and wildlife ecology. Because of the diversity among degree programs, students should contact the university they plan to attend as soon as possible to determine the curriculum option in which they are most interested and the admissions requirements of that university. Additionally, most universities require one year of a foreign language. All state universities in Florida offer upper division studies in biology.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus I	4
	+*MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	•+CHM1045, General Chemistry	3
Biological Science	•+BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Majors I Lab	1
	+BSC 2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	CHM1045L, General Chemistry Lab	1
	+CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	+CHM2210, Organic Chemistry I	3
	CHM2210L, Organic Chemistry I Lab	2
	+CHM2211, Organic Chemistry II	4
	CHM2211L, Organic Chemistry II Lab	1
Electives		1
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/BUILDING CONSTRUCTION
(BLCN-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to provide students the opportunity to gain knowledge in the disciplines necessary for a career in building construction. The track is designed to meet the first two years of preparation for a four-year degree based on the program offered at the University of Florida. Students should make contact as soon as possible with the school they plan to attend to make any program adjustments needed and to become familiar with the admissions requirements of that particular university. Other programs are offered at the University of West Florida and the University of North Florida.

A four year degree could lead to self-employment in the construction field; contract work for a government agency or private business; or employment by a private construction firm or government agency. Individuals are required to pass a state exam and meet all state licensing requirements to become a licensed contractor.

It is recommended that students who do not show competence in word processing and spreadsheets take CGS 1570 Microcomputer Applications. Competencies in these areas will be tested at the University of Florida. Students should check with the advisor to investigate other courses that may be taken to facilitate the transfer to the university of their choice. The University of Florida requires SUR 2101 (Surveying) and BUL 2241 (Business Law). Students are strongly advised to take ETG 2502 (Statics) and ETG 2530 (Strength of Materials) at the community college level, but these courses may be taken as 2-hour courses at the University of Florida in the summer prior to entering the upper division in the fall semester. Students should set their goals to enter the upper division program in the fall semester in order to get the correct sequence of courses at the university.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*STA2023, Statistics	3
	•+*MAC2311, Calculus I (4) or +*MAC2233, Business Calculus	3
Natural Sciences Area		
Physical Science	GLY1010, Geology	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	ACG2001, Financial Accounting I	3
	BCN1230, Materials and Methods	3
	•+PHY2053, College Physics I	3
	PHY2053L, College Physics I Lab	1
	+PHY2054, College Physics II	3
	PHY2054L, College Physics II Lab	1
Electives		10
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/BUSINESS ADMINISTRATION
(BUS-AA)**

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for an advanced education at the university level. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*STA2023, Statistics	3
	+*MAC2233, Calculus for Business	3
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	CGS1570, Microcomputer Applications.	3
	*ACG2001, Financial Accounting I	3
	+*ACG2011, Financial Accounting II	3
	+*ECO2023, Economics, Micro	3
	+*ACG2071, Managerial Accounting	3
Electives		9
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/BUSINESS TEACHER EDUCATION
(BSTR-AA)**

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for an advanced education at the university level. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

The State of Florida teacher certification requires a thorough background check by the Florida Department of Law Enforcement.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	*ACG2001, Financial Accounting I	3
	+*ACG2011, Financial Accounting II	3
	+ECO2023, Principles of Economics, Micro	3
	EDF1005, Introduction to the Teaching Profession	3
	EDF2085, Introduction to Diversity for Educators	3
	EME2040, Introduction to Technology for Educators	3
Electives	Suggested Electives: Choose one or see an advisor. CGS1570, Microcomputer Applications, 3 crs. GEB1011, Introduction to Business, 3 crs.	6
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/CHEMISTRY
(CHEM-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies as chemistry majors. All state public universities and most private universities offer the bachelor's degree in chemistry. Several of the institutions offer B.S./A.C.S. degrees, indicating endorsement of the program by the American Chemical Society. Most colleges of arts and sciences require an intermediate level of proficiency in a foreign language beyond that required for admissions to the university. To enhance students' chemistry education, the chemistry department at Gulf Coast State College offers hands-on instruction in the use of a wide range of instruments, such as gas chromatography (GC) and infra-red spectroscopy (FTIR). Several different levels of computer usage for chemistry are available for student use. It is strongly recommended that students be familiar with the admissions requirements of the university they plan to attend. In addition to the courses below, most universities require Calculus III and highly recommend Differential Equations.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus I	4
	+*MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2

NOTE: The PHY2048/2049 sequence is required for the Bachelor in Science degree. It is an option for the Bachelor in Arts degree.
 	
The PHY 2053/2054 sequence is not accepted for the Bachelor in Science degree.
	Students must also complete one of the following two-semester sequences in science:
	+*CHM2210, Organic Chemistry I, 3 crs.
	  CHM2210L, Organic Chemistry I Lab, 2 crs.
	+*CHM2211, Organic Chemistry II, 4 crs.
	  CHM2211L, Organic Chemistry II Lab, 1 cr.
	Electives[1], 6 crs.
	OR
	•+*PHY2048, University Physics I, 4 crs.
	  PHY2048L, University Physics I Lab, 1 cr.
	  PHY2049, University Physics II, 4 crs.
	  PHY2049L, University Physics II Lab, 1 cr.
	Electives[2], 6 crs.
	OR
	•+*PHY2053, College Physics I, 3 crs.
	  PHY2053L, College Physics I Lab, 1 cr.
	  PHY2054, College Physics II, 3 crs.
	  PHY2054L, College Physics II Lab, 1 cr.
	Electives, 8 crs.
		16

TOTAL DEGREE HOURS		**60**

[1]University Physics is required for advanced degrees in chemistry.
[2]GCSC strongly recommends that students pursuing a chemistry transfer track complete the chemistry sequence through CHM2211 before transferring.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/CHIROPRACTIC MEDICINE
(CHIR-AA)

AREA OF CONCENTRATION: The primary goal of this transfer track is to prepare students for admission directly to the college of chiropractic medicine or to the upper division for continued studies to prepare for admission to chiropractic study. Although schools of chiropractic medicine do not require students to hold a bachelor's degree, they do require a strong background in biology, chemistry, physics, and related areas, as well as specific requirements in the social sciences and humanities. Most chiropractic colleges require 60 - 80 semester hours of course work prior to making application. The state of Florida does not have a school of chiropractic medicine at this time. Students should be familiar with the requirements of the chiropractic school they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*MAC1140, Pre-Calculus Algebra	3
	+*MAC1114, Trigonometry	3
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	Approved Biology	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	+*CHM2210, Organic Chemistry I	3
	CHM2210L, Organic Chemistry I Lab	2
	Approved Biology Lab	1
	Approved Biology	3
	Approved Biology Lab	1
	•+*PHY2053, Physics I	3
	PHY2053L, Physics I Lab	1
	+*PHY2054, Physics II	3
	PHY2054L, Physics II Lab	1
Electives		0
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/COMMUNICATION
Advertising/Public Relations Option
(ADVR-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for an advanced education at the university level. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	AMH2010, U.S. History I	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+SPC1608, Introduction to Public Speaking	3
	•AMH2020, U.S. History II	3
Electives		18
TOTAL DEGREE HOURS		**60**

Recommended electives:
+MMC2100, Writing for Mass Comm, 3 crs.
MMC1000, Survey of Mass Communication, 3 crs.
CGS1570, Microcomputer Applications, 3 crs.
PGY2801C, Digital Photography, 3 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/COMMUNICATION
Journalism Option
(JOUN-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for the production and evaluation of information disseminated through mass media. The track includes study and appreciation of the evolution of the context and technologies of mass media. Students may develop fundamental skills in writing for newspapers, magazines, radio, and television. Students may gain practical skill in desktop publishing through production of the college literary magazine and the college newspaper. Students who graduate from this track may work in communication related fields. Students may continue their formal education toward a Bachelor of Arts or Bachelor of Science degree with a major in journalism or mass communication. Degrees in journalism or mass communication may allow entry into newspaper and magazine production as well as information related fields.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	AMH2010, U.S. History I	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+SPC1608, Introduction to Public Speaking	3
	•AMH2020, U.S. History II	3
Electives		18
TOTAL DEGREE HOURS		**60**

Recommended electives:

•ECO2013, Economics
+MMC2100, Writing for Mass Comm, 3 crs.
MMC1000, Survey of Mass Communication, 3 crs.
JOU2400, Newspaper Production, 6 crs.
Suggested electives:
PGY2801C, Digital Photography I, 3 crs.
PGY2802C, Digital Photography II, 3 crs.

TRANSFER TRACK/COMMUNICATION
Radio/Television Broadcasting Option
(RTV-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students as media creators, writers, and practitioners in radio, television, and the multimedia. Students will participate in real-time laboratory experiences and classroom exercises that introduce them to media outlets in the community as well as on-air and production work for WKGC-AM/FM, the public radio stations associated with Gulf Coast State College. Most students use this knowledge and background to continue their formal education toward a bachelor's degree in general or mass communications at a four-year institution.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+SPC1608, Introduction to Public Speaking	3
Electives		21
TOTAL DEGREE HOURS		**60**

Pre-Communication students wishing to transfer to a four-year Florida school should be aware of the AMH2010, AMH2020, and ECO2013 requirements by some institutions.)

Recommended electives:
DIG2000, Intro to Digital Media OR
    MMC1000, Survey of Mass Communication, 3 crs.
DIG2251, Digital Audio I, 3 crs.
+DIG2252, Digital Audio II, 3 crs.
CGS2069, Internet Marketing, 3 crs.
DIG2257, Radio Production Sound Recording, 3 crs.
+DIG2200, Basic Video, 3 crs.
+MMC2100, Writing for Mass Communication, 3 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/COMMUNICATION
Speech Option (SPCH-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for the art of public speaking. Students engage in critical thinking, and apply principles of reasoning to their ideas and to the ideas of others. The track includes the study and execution of significance to setting, audience, and purpose. Students who graduate from this track may work in communication related fields. Students may continue their formal education toward a Bachelor of Arts or Bachelor of Science degree with a major in communication studies (speech communication, interpersonal communication and legal communication). Degrees in communication may allow entry into law, ministry, education, speech writing, management, lobbying, and sales.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	AMH2010 or •AMH2020, U.S. History	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+SPC1608, Introduction to Public Speaking	3
Electives		21
TOTAL DEGREE HOURS		**60**

Recommended elective:
MMC1000, Survey of Mass Communication, 3 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/COMPUTER INFORMATION SYSTEMS
(COMP-AA)**

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*STA2023, Statistics	3
	+*MAC2233, Calculus for Business	3
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	CGS1570, Microcomputer Applications	3
	*ACG2001, Financial Accounting I	3
	+*ACG2011, Financial Accounting II	3
	+ECO2023, Economics, Micro	3
	+ACG2071, Managerial Accounting	3
Electives	Programming electives: +COP2224, C++ Programming I, 3 crs. +COP2250, Java Programming I, 3 crs. +COP2228, C++ Programming II, 3 crs. +COP2251, Java Programming II, 3 crs.	9
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/COMPUTER SCIENCE
(CMPM-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to provide students the opportunity to gain knowledge in the disciplines necessary for a career in computer science. A four year degree could lead to employment in an industrial or financial field, a government agency, a secondary college, or a university. Examples of employment include the development of software, working with robotics, the space industry, programming, sophisticated graphics such as animation and interior design, networking computers, and development of expert systems. Students are encouraged to become familiar with the admissions requirements at the university they plan to attend. Some of the schools in Florida have a limited access to computer science. Students in these schools must achieve at least a 2.5 GPA in all college work attempted and must have completed the State of Florida Common Course Prerequisites with a grade of "C" or better in order to be considered for entrance.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*MAC1114, Plane Trigonometry	3
	+*MAC1140, Precalculus Algebra	3
Natural Sciences Area		
Physical Science	•+PHY2048, University Physics I	4
Biological Science	•+BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+BSC 2011, Biology for Science Majors II	3
	•+*MAC2311, Calculus w/Analytical Geometry I	4
	+*MAC2312, Calculus w/Analytical Geometry II	4
	PHY2048L, University Physics I Lab	1
	+PHY2049, University Physics II	4
	PHY2049L, University Physics II Lab	1
	+COP1000, Intro to Programming Logic	3
	COP2224 or COP2250, Intro to C++ or Java Programming I	3
Electives		0
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/COMPUTER SCIENCE AND SOFTWARE ENGINEERING
(CSSE-AA)

AREA OF CONCENTRATION: A baccalaureate degree in Computer Science and Software Engineering affords students the opportunity to secure employment in an industrial or financial firm, a governmental agency, or secondary, college, or university teaching position. Potential research opportunities include the following: computer security, cryptography; programming languages; compilers; real-time systems; databases; fault tolerance; networks, neural networks; expert networks; fuzzy sets and systems; scientific visualization; human computer interaction; computational science and engineering. This transfer track is designed to meet FSU-Panama City program requirements.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus I	4
	+*MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	•+PHY2048, University Physics I	4
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+*MAC2313, Calculus III	4
	+MAD2104, Discrete Math	3
	+MAP2302, Differential Equations	3
	+PHY2048L, University Physics I Lab	1
	+PHY2049, University Physics II	4
	+PHY2049L, University Physics II Lab	1
	•+CHM1045, General Chemistry I	3
	+CHM1045L, General Chemistry I Lab	1
Electives	LIS2004, Introduction to Internet Research	1
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/CRIMINOLOGY/CRIMINAL JUSTICE
(LAW-AA)

AREA OF CONCENTRATION: Criminology and criminal justice encompass the scientific study of crime, criminals, the lawmaking process, the criminal justice system, and the treatment of offenders. Completion of the track leads to an Associate of Arts degree, which constitutes the first two years of a Bachelor of Arts or Bachelor of Science degree (a four-year degree). Students may complete the remaining two years of the four-year degree in criminology at Florida State or at several of Florida's major universities. The purpose of this program is to prepare students to continue their educational pursuits which lead to careers in federal law enforcement (FBI; Drug Enforcement Administration; U.S. Marshal's Service; Bureau of Alcohol, Tobacco and Firearms; Immigration & Naturalization Service; Internal Revenue Service; U. S. Postal Service and the Central Intelligence Agency), as well as careers as prosecuting or defense attorneys, judges, court administrators, probation/parole officers, juvenile court case workers, criminal analysts, and criminal research scientists.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		0
Electives		24
TOTAL DEGREE HOURS		**60**

Recommended electives:
CCJ1010, Introduction to Criminology, 3 crs.
CCJ1020, Introduction to Criminal Justice, 3 crs.
CCJ1191, Human Behavior in Criminal Justice, 3 crs.
CJL2100, Criminal Law, 3 crs.
CJC2002, Probation & Parole, 3 crs.
CCJ 2500, Juvenile Justice, 3 crs.
PLA2308, Criminal Procedure, 3 crs.
CJL2130, Evidence, 3 crs.
PLA2190, Legal Reasoning, 3 crs.
+PLA1104, Legal Writing and Research I, 3 crs.
PLA1203, Civil Practice and Procedure I, 3 crs.

•+SYG2000, Sociology or •PSY2012, Psychology, 3 crs.

•+BSC2085, Anatomy and Physiology or •+BSC1005, Biology, 3 crs.
CGS1570, Microcomputer Applications, 3 crs.
+SPN1120, First Year Spanish I, 4 crs.
+SPN1121, First Year Spanish I0I, 4 crs.
+SPC1608, Introduction to Public Speaking, 3 crs.
   (SPC1608 is a university graduating requirement and not a university entrance requirement.)

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/DENTAL MEDICINE
(DENT-AA)**

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies leading to a bachelor's degree. Most upper division programs designed to prepare students for dentistry are not in "pre-dentistry," but are in biology and related areas. Colleges of dentistry do not require students to have undergraduate degrees in biology or other sciences, but do expect students to have an in-depth background in biological sciences, chemistry, physics, and other related areas in order to master the dental curriculum. Students should gain admission to the college of arts and sciences to complete the bachelor's degree, and then seek admission to the college of dentistry. Admission to dental school is highly competitive and requires an excellent GPA, both in general course work and in science courses, as well as high scores on the DAT (Dental Aptitude Test). Students should become familiar with the requirements for the dental school of interest. Among the state universities in Florida, the only dental school is at UF.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*MAC1114, Trigonometry	3
	•+*MAC2311, Calculus I	4
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	+*CHM2210, Organic Chemistry I	3
	CHM2210L, Organic Chemistry I Lab	2
	+*CHM2211, Organic Chemistry II	4
	CHM2211L, Organic Chemistry II Lab	1
Electives		2
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/EARLY CHILDHOOD
(CHLD-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for a career in teaching early childhood ages birth to eight years. Upon successful completion of a four-year degree at a university and appropriate teacher certification requirements, students qualify for a Florida certificate in early childhood education. Students wishing to seek employment after completing the two-year Early Childhood program would be able to do so in child care and pre-school programs.

The state of Florida requires a thorough background check by the Florida Department of Law Enforcement prior to students entering the classroom for observations. The college requires the submission of written verification of approved and completed background checks before students may complete on-site course requirements. Students doing observations in school systems must go to the district in which they will do their observations and comply with the requirements for that system. The students will be required to pay a fee for the cost of the background check.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	AMH2010 or AMH 2020, U.S. History I or II	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	EDF1005, Introduction to the Teaching Profession	3
	EDF2085, Introduction to Diversity for Educators	3
	EME2040, Introduction to Technology for Educators	3
Electives		15
TOTAL DEGREE HOURS		**60**

Recommended electives:
+ SPC1608, Introduction to Public Speaking, 3 crs.

•SYG2000, Principles of Sociology, 3 crs.
EEC1701, Child Development, 4 crs.
+EEC2240, Social Studies and Creative Expression for Young
   Children, 3 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ECONOMICS
(ECON-AA)

AREA OF CONCENTRATION: The diversified discipline of economics makes the student aware of fiscal and monetary issues, international trade, and economic implications of private enterprise. Basic tools, theories, and economic models are studied to provide the student with a means to analyze economic issues.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+ECO2023, Economics, Micro	3
	Foreign language (if not completed in high school)	8
Electives		13
TOTAL DEGREE HOURS		**60**

Recommended electives:

•+*STA2023, Statistics (Meets one General Education math requirement), 3 crs.
GEB1011, Introduction to Business, 3 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ECONOMICS FOR BUSINESS
(ECOB-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for an advanced education at the university level. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	*MAC2233, Calculus for Business	3
	See General Education Requirement	3
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	CGS1570, Microcomputer Applications3	3
	*ACG2001, Financial Accounting I	3
	+*ACG2011, Financial Accounting II	3
	+ECO2023, Economics, Micro	3
	+ACG2071, Managerial Accounting	3
Electives		9
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ELEMENTARY TEACHER EDUCATION
(EDUC-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in teaching kindergarten through grade six. The four year degree will lead to Florida certification for grades K-6. Elementary education is a limited access program at most Florida universities. Students may have additional requirements for admission to a teacher-preparatory program. Please contact a GCSC advisor or the transfer institution for further guidance. The state of Florida requires a thorough background check by the Florida Department of Law Enforcement prior to students entering the classroom for observations. The college requires the submission of written verification of approved and completed background checks before students may complete on-site course requirements. Students doing observations in school systems must go to the district in which they will do their observations and comply with the requirements for that system. GCSC only has articulation agreements with Gulf, Franklin, and Bay school districts for such observation experiences. The students will be required to pay a fee for the cost of the background check.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	•AMH2020, United States History II	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	EDF1005, Introduction to the Teaching Profession	3
	EDF2085, Introduction to Diversity for Educators	3
	EME2040, Introduction to Technology for Educators	3
Electives		15
TOTAL DEGREE HOURS		**60**

Recommended electives:
+ SPC1608, Introduction to Public Speaking, 3 crs.
AMH2010, American History, 3 crs.
EEC1701, Child Development, 4 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ENGINEERING
(ENGR-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for entering an engineering school. Engineering is a limited access program at most universities. Chemical engineering majors are required to have CHM 1046/1046L, CHM 2210/2210L, and CHM 2211/2211L completed before entering the chemical engineering program. Each area of engineering may also be further limiting. For example, the University of Florida requires a 2.5 GPA in the A.A. degree but could require a 2.8 GPA in calculus and physics courses (first attempts only) to major in electrical engineering. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus I	4
	+*MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	•+PHY2048, University Physics I	4
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+*MAC2313, Calculus III	4
	PHY2048L, University Physics I Lab	1
	+PHY2049, University Physics II	4
	PHY2049L, University Physics II Lab	1
	•+CHM1045, General Chemistry	3
	CHM1045L, General Chemistry Lab	1
	+*MAP2302, Differential Equations	3
Electives		4
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ENGLISH
(ENGL-AA)

AREA OF CONCENTRATION: The purpose of the English transfer track is to prepare students for entry into upper-division studies in English. A Bachelor of Arts in English will prepare students for further studies in English, writing, and literature as well as other graduate programs, including law school. A Bachelor of Arts in English can also pave the way for careers in journalism and other fields that require communications skills. The English transfer track also prepares students who wish to enter English education programs and become certified to teach English on the middle school and high school levels. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
Electives		24
Option 1:	Electives, 24 crs. Recommended electives: Further English, Literature, and/or writing courses taught in the Language and Literature Division.	
Option 2:	EDF1005, Introduction to the Teaching Profession, 3 crs. EDF2085, Introduction to Diversity for Educators, 3 crs. EME2040, Introduction to Technology for Educators, 3 crs. Electives, 12 crs.	
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ENTOMOLOGY
(ENTO-AA)

AREA OF CONCENTRATION: This transfer track prepares students for entering the university as a biology major with emphasis in entomology. Generally, most state universities offer a B.S. or B.A. in biology, but only the University of Florida and Florida A& M University offer specialization in entomology.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*STA 2023, Statistics	3
	+* MAC1114, Trigonometry	3
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC 2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	•+*MAC2311, Calculus I	4
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	•+*PHY2053, College Physics I	3
	PHY2053L, College Physics I Lab	1
	ECO2023, Economics, Micro	3
Electives		2
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ENVIRONMENTAL SCIENCE: NATURAL SCIENCE OPTION (ENVN-AA)

AREA OF CONCENTRATION: This transfer track prepares students to enter environmental science programs having emphasis on the research and field aspects rather than the policy-making aspects of environmental concerns. The Natural Science option has unique prerequisites for the upper division studies. Therefore, it is necessary for students to make themselves aware of each institution's requirements.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*STA 2023, Statistics	3
	+* MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	•+PHY2048, University Physics I	4
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	+*CHM1046, Chemistry with Qual Analysis	3
	CHM1046L, Chemistry with Qual Anal. Lab	2
	PHY2048L, University Physics I Lab	1
	+* PHY2049, University Physics II	4
	PHY2049L, University Physics II Lab	1
	+ECO2023, Economics, Micro	3
Electives		3
TOTAL DEGREE HOURS		**60**

[1]GCSC strongly recommends that EVR1001 be completed before transferring.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ENVIRONMENTAL SCIENCE: POLICY OPTION
(ENVP-AA)

AREA OF CONCENTRATION: This transfer track prepares students to enter environmental science programs having emphasis on the policy-making aspects of environmental concerns rather than the research and field aspects. The Policy Option has unique prerequisites for the upper division studies. Therefore, it is necessary for students to make themselves aware of each institution's requirements.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*MAC1140, Pre-Calculus Algebra	3
	•+*STA2023, Statistics	3
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual Analysis	3
	+*CHM1046L, Chemistry with Qual Anal. Lab	2
	•+*PHY2053, College Physics I	3
	+*PHY2053L, College Physics I Lab	1
	ECO2023, Economics, Micro	3
Electives[1]		6
TOTAL DEGREE HOURS		**60**

[1]GCSC strongly recommends that EVR1001 be completed before transferring.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/FOREIGN LANGUAGE
(FLAN-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for careers in teaching, translation, or international business. The track includes courses which are required for an A.A. degree as well as foreign language courses. Students who know what area they will concentrate in at the university level should use their elective credits to meet the appropriate prerequisites for those programs. Students who enter the program at the second-year level will use the eight credits not needed for foreign language as electives to prepare for university requirements. Therefore, students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		

	OPTION 1: Spanish
	    Foreign Language, 15 crs.
	    Electives, 9 crs.
	
	OPTION 2: Foreign Languages Teacher Education
	    Foreign Language, 15 crs.
	    EDF1005, Introduction to the Teaching Profession, 3 crs.
	    EDF2085, Introduction to Diversity for Educators, 3 crs.
	        (In addition to EDF2085, a minimum of 6 semester hours
	        with an international diversity focus is required. Foreign
	        language courses may be used to meet this requirement.)
	    EME2040, Introduction to Technology for Educators, 3 crs.
		24

Electives		0
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/FORESTRY
(TREE-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to provide students the opportunity to gain knowledge in the disciplines necessary for a career in forestry. A four year degree can lead to careers in forest biology and ecology, forest management, forest products, research, teaching, industry, and environmental projects. This program is designed to provide the course work needed for the first two years based on the forestry program offered at the University of Florida. Students should begin study in Summer A after completing the A.A. degree. A 2.5 GPA is required in all math and science courses. Students should contact the university of their choice as early as possible to obtain information on admissions requirements and to make any necessary program changes.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*STA2023, Statistics	3
	•+*MAC2311, Calculus I	4
Natural Sciences Area		
Physical Science	•+CHM1045, General Chemistry	3
Biological Science	•+BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+PHY1023, Survey of General Physics	3
	+ENC2210, Technical Writing	3
	CHM1045L, General Chemistry Lab	1
	+SPC1608, Introduction to Public Speaking	3
	BSC2010L, Biology for Science Maj. I Lab	1
	+BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	CGS1570, Microcomputer Applications	3
	ECO2023, Economics, Micro	3
Electives		2
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/GEOLOGY
(GEOL-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies in geology, science education, or earth and environmental sciences. Each of these sub-specialties in geology may have unique prerequisites for upper division studies. Therefore, it is necessary for students to make themselves aware of each institution's requirements. State universities offering upper division work in geology are FAU, FIU, FSU, USF, & UF. It is strongly recommended that students be familiar with the admissions requirements of the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus I	4
	+*MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	GLY1010, Physical Geology	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	•+*CHM1045, General Chemistry	3
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	+* Approved two semester Physics sequence with labs	8-10
Electives		3-5
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/HEALTH ADMINISTRATION, INFORMATION, AND SCIENCE DEGREES

AREA OF CONCENTRATION: These programs are designed to prepare students for upper division studies in one of several health fields. It is strongly recommended that students be familiar with the admissions requirements of the university they plan to attend and the particular requirements for the individual program.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	3
	See General Education Requirement	3
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	*ACG2001, Financial Accounting I	3
	+*ACG2011, Financial Accounting II	3
	*ACG2071, Managerial Accounting	3
	CGS1570, Microcomputer Applications	3
Choose one of the following three options.	**HEALTH SERVICES ADMINISTRATION OPTION (HSA-AA)** This program is designed to prepare students for upper division studies in health care management at the state universities of FAMU, FAU, FGCU, FIU, UCF, and UNF. Graduates of this bachelor's degree will be prepared for entry-level management in a health service field.	
	ECO2023, Economics, Micro	3
	+*Approved mathematics (MAC, STA) (FAMU requires MAC2233)	6
	•PSY2012 or •SYG2000 Psychology/Sociology	3
	Biological Science	3
	Physical Science	3
Electives		9
TOTAL DEGREE HOURS		60
	HEALTH INFORMATION MANAGEMENT OPTION (MEDR-AA) This program is designed to prepare students for upper division studies in health information management at the state universities of FAMU, FIU, and UCF. Graduates of the B.S. degree will design, implement, and maintain health information systems, records, and statistics.	

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

	•+*STA2023, Statistics	3
	+*Approved mathematics (MAC)	3
	•PSY2012 or •SYG2000 Psychology/Sociology	3
	+*BSC2085, Anatomy and Physiology I (Meets biology requirement for A.A.)	3
	BSC2085L, Anatomy and Physiology I Lab	1
	+*BSC2086, Anatomy and Physiology II	3
	BSC2086L, Anatomy and Physiology II Lab	1
	Physical Science	3
Electives		9
TOTAL DEGREE HOURS		**60**
	HEALTH SCIENCE OPTION (HS-AA) This program is designed to prepare students for upper division studies in health science at UWF which in turn will prepare them for jobs in a health service field. Concentrations are available in Aging Studies, Allied Health, Communication, Health Care Administration, Health Care Ethics, Health Care Professional, Medical Information Technology, and Psychology of Health.	
	•+*MAC1105, College Algebra	3
	•+*STA2023, Statistics	3
	•ECO2013, Economics, Macro	3
	+ECO2023, Economics, Micro	3
	•PSY2012, Psychology	3
	Biological Science	3
	Biological Science Lab	1
	•+*CHM1045, General Chemistry (Meets physical science requirement for A.A.)	3
	CHM1045L, General Chemistry I Lab	1
Electives		4
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/HEALTH EDUCATION
(HLTH-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in health education or other health related fields such as health management, counseling, nutrition and community health. The four year degree will lead to certification in teaching health education. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend. Students may have additional requirements for admission to a teacher-preparatory program. Please contact a GCSC advisor or the transfer institution for further guidance. The state of Florida requires a thorough background check by the Florida Department of Law Enforcement prior to students entering the classroom for observations. The college requires the submission of written verification of approved and completed background checks before students may complete on-site course requirements. Student doing observations in school systems must go to the district in which they will do their observations and comply with the requirements of that system. The students will be required to pay a fee for the cost of the background check.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	•+ BSC2085, Anatomy and Physiology I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	EDF1005, Introduction to the Teaching Profession	3
	EDF2085, Introduction to Diversity for Educators	3
	EME2040, Introduction to Technology for Educators	3
	HSC2100, Personal and Community Health	3
	HUN1201, Principles of Nutrition	3
	BSC2085L, Anatomy and Physiology Lab	1
Electives		8
TOTAL DEGREE HOURS		**60**

Students should coordinate with their advisor to determine which electives will transfer to the four year institution of their choice. Also, students should fulfill the foreign language requirements, if necessary.

Recommended elective:
    EEC1701, Child Development, 4 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/HISTORY
(HIST-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to contribute to the intellectual development of students by enabling them to better understand themselves in a contemporary world that has been shaped by many aspects of human development chronologically, from ancient times to the present. The four year degree offers opportunities in teaching, and careers with historical agencies, museums, or the media. History also provides a good major for pre-law.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	EUH1000, Western Civilization I	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	EUH1001, Western Civilization II	3
	AMH2010, U.S. History	3
	•AMH2020, U.S. History II	3
Electives		15
TOTAL DEGREE HOURS		**60**

Recommended elective:
    GEO1000, Introduction to Geography, 3 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/INFORMATION TECHNOLOGY
(LIS-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies in information science. Graduates in the field are in demand and are employed by corporations, non-profit organizations, and educational institutions as educators, information architects, information systems managers, Web developers, information scientists, network administrators, systems analysts and computer user support specialists.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	+*PHI2600, Ethics	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC1105, College Algebra	3
	•+*STA2023, Statistics	3
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	MAC1114, Plane Trigonometry	3
	MAC1140, Precalculus Algebra	3
	•+*MAC2311, Calculus w/Analytical Geometry I	4
	+MAD2104, Discrete Mathematics	3
	•+PHY2053 or •+PHY2048, College Physics or University Physics I	3-4
	+PHY2053L or PHY2048L, College Physics or University Physics I Lab	1
	COP1000, Intro to Programming Logic	3
	+COP2224 or COP2250, Intro to C++ or JAVA Programming I	3
	COP2700, Data Structures (SQL)	3
Electives		
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/LANDSCAPE OPERATIONS AND MANAGEMENT
(LAND-AA)**

AREA OF CONCENTRATION: This transfer track prepares students who are interested in professional careers in landscape design, contracting, and management. Students will study such areas as design of gardens, with particular emphasis on the natural and man-made beauty of the resulting landscape, interior scape design, park management, aboriculture, urban forestry, and related fields.

Florida A & M University offers the B.S. degree in Landscape Operations and Management.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	•+PHI2010, Introduction to Philosophy	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC1105, College Algebra	3
	+*MAC1114, Trigonometry	3
Natural Sciences Area		
Physical Science	+CHM1040, Fundamentals of Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	CHM1040L, Fundamentals of Chemistry Lab	1
	EGN1110C, Engineering Drawing	3
	BCN1230, Materials and Methods	3
	+SUR2101, Surveying	3
	SPC1608, Introduction to Public Speaking	3
Electives		10
TOTAL DEGREE HOURS		**60**

Recommended elective:
   ART1300C, Drawing I, 3 crs.

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•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

LAW

AREA OF CONCENTRATION: Gulf Coast State College students who wish to pursue a career in law require no particular major or transfer track of "law" studies. As undergraduates, students will be steered toward broadly based studies emphasizing analytical reasoning, writing, and oral expression, and will be expected to show a capacity to perform at an academically rigorous level. Among the many majors approved by the American Bar Association are business, computer science, economics, English, history, linguistics, math, natural sciences, philosophy, political science, psychology, and sociology.

COMMON COURSE PREREQUISITES

Students may major in business, English, or one of the social sciences, or follow the general education curriculum. Law is a limited access program at most universities.

ELECTIVES

Students are strongly encouraged to take courses that will enhance writing skills.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/LEGAL STUDIES (LGLS-AA)

AREA OF CONCENTRATION: The Legal Studies transfer track leads to an Associate of Arts degree, which constitutes the first two years of a Bachelor of Arts or Bachelor of Science degree (a four-year degree). Students may complete the remaining two years of a four year degree at Florida State University's Panama City campus or at several of Florida's major universities. The purpose of this track is to prepare students to continue their educational pursuits which lead to careers in federal law enforcement (Federal Bureau of Investigation; Drug Enforcement Administration; U.S. Marshall's Service; Bureau of Alcohol, Tobacco and Firearms; Immigration & Naturalization Service; Internal Revenue Service; U.S. Postal Service and the Central Intelligence Agency), as well as careers as prosecuting attorneys, defense attorneys, judges, court administrators, probation and parole officers, and juvenile court case workers.

Communications Area		**Credit Hours**
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+* STA2023, Statistics	3
	See General Education Requirement	3
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		0
Electives		24
TOTAL DEGREE HOURS		**60**

Recommended electives:
+   PLA1104, Legal Writing and Research I, 3 crs.
    PLA1203, Civil Practice and Procedure I, 3 crs.
    PLA2308, Criminal Procedure, 3 crs.
    CCJ1010, Introduction to Criminology, 3 crs.
    CCJ1020, Intro. to Criminal Justice, 3 crs.
    CJL2100, Criminal Law, 3 crs.
    CJL2130, Evidence, 3 crs.
    PLA2190, Legal Reasoning, 3 crs.
+ MAT1033, Intermediate Algebra, 3 crs.

• SYG2000 or •PSY2012, Sociology/Psychology, 3 crs.
    CGS1570, Microcomputer Applications, 3 crs.
+ SPN1120, First Year Spanish I, 4 crs.
+ SPN 1121, First Year Spanish II, 4 crs.
+ SPC1608, Introduction to Public Speaking, 3 crs.

NOTE: The speech requirement, SPC1608, at the university level is a university graduating requirement, not a university entrance requirement.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/MARINE BIOLOGY
(MBIO-AA)

AREA OF CONCENTRATION: This transfer track prepares students for entering the university as a marine biology major. The curriculum listed below is specifically related to the requirements of the University of West Florida for a B.S. in Marine Biology. The curriculum also meets the requirements for the B.S. and B.A. in biology (with marine biology track) at other state universities. Students should contact the university they plan to attend as soon as possible to determine any specific admissions requirements of that university. Additionally, most universities require one year of a foreign language. See the marine biology advisor for additional information.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus	4
	+* MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	CHM1045L, General Chemistry I Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	+*CHM2010, Organic Chemistry I	3
	CHM2010L, Organic Chemistry I Lab	2
	+*CHM2011, Organic Chemistry II	4
	CHM2011L, Organic Chemistry II Lab	1
Electives		1
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/MATHEMATICS
(MATH-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in mathematics. The problem solving skills taught in mathematics prepare students for a great number of job opportunities. A four year degree could lead to employment in academics, a government agency, or an insurance agency. Examples of job titles of people who have earned a baccalaureate degree or higher in mathematics include computer specialist, investment actuary, cost estimator, financial engineer, and numerical methods programmer/analyst. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus I	4
	+*MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	See General Education Requirement—Note core classes below	3
Biological Science	See General Education Requirement—Note core classes below	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+Approved Programming Language	3
	+*MAC2313, Calculus III	4
	8-10 semester hours of a laboratory science – select 2 of the following with the accompanying lab):	8-10
	•+ BSC2010, Biology for Science Majors I, 3 crs. + BSC2010L, Biology for Science Majors I Lab, 1 cr. +BSC2011, Biology for Science Majors II, 3 crs. +BSC2011L, Biology for Science Majors II Lab, 1 cr. (Meets biology requirement for A.A.)	
	•+*CHM1045, General Chemistry, 3 crs. + CHM1045L, General Chemistry I Lab, 1 cr. +*CHM1046, Chemistry with Qual. Analysis, 3 crs. CHM1046L, Chemistry with Qual. Analysis Lab, 1 cr.	
	•+*PHY2048, University Physics I, 4 crs. +PHY2048L, University Physics I Lab, 1 cr. +*PHY2049, University Physics II, 4 crs. + PHY2049L, University Physics II Lab, 1 cr. (Meets physical science requirement for A.A.)	
Electives	(Assuming a student chooses to take Biology or Physics/Chemistry to fulfill the General Ed Course Requirement for one of these areas.)	5-7
TOTAL DEGREE HOURS		**60**

Recommended programming language elective: COP2250 Introduction to Java, 3 crs.
Recommended electives: STA2023, Statistics, MAP2302, Differential Equations, 3 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/MATHEMATICS EDUCATION
(MEDU-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in teaching secondary school mathematics. The four year degree will lead to Florida teacher certification. Math Education is a limited access program at most Florida universities. For example, Florida State University requires a 2.5 GPA in the A.A. degree and a score of 960 on the SAT or a 20 on the ACT. In addition to the FSU College of Education criteria, the following also must be met: 1) Complete Calculus II with a "C" or better; 2) a 2.5 GPA; and 3) approval by the department. Students may have additional requirements for admission to a teacher-preparatory program. Please contact a GCSC advisor or the transfer institution for further guidance. The state of Florida teacher certification requires a thorough background check by the Florida Department of Law Enforcement for all education majors. The college requires the submission of written verification of approved and completed background checks before students may complete on-site course requirements. Student doing observations in school systems must go to the district in which they will do their observations and comply with the requirements of that system. The students will be required to pay a fee for the cost of the background check.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+* MAC2311, Calculus I	4
	+*MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	EDF1005, Introduction to the Teaching Profession	3
	EDF2085, Introduction to Diversity for Educators	3
	EME2040, Introduction to Technology for Educator	3
	+Approved Programming Language	3
Electives		10
TOTAL DEGREE HOURS		**60**

Recommended electives:

SPC1608, Introduction to Public Speaking, 3 crs.
MAC1105, College Algebra, 3 crs.
MAC1140, Pre-Calculus Algebra, 3 crs.
MAC1114, Trigonometry, 3 crs.
Physical Science and Lab, 3 crs./1 cr.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/MEDICAL
(MED-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students to select an appropriate major, transfer to the university, and to take the MCAT (Medical College Admission Test). Medical schools generally require one year of biology, one year of physics, and two years of chemistry through organic chemistry. Minimum math requirements are dictated by the science courses and areas of emphasis on the MCAT. A student's undergraduate major does not have to be in science, but usually is. Most medical schools are more concerned with the overall scope and quality of a student's undergraduate work, which includes the science GPA and the general GPA. College grades are perhaps the most important single predictor of performance in medical school. Most successful applicants have a GPA in excess of 3.5; at least one semester of calculus; and appropriate employment or volunteer experience. Motivation and humanistic concerns, as well as high levels of scholastic achievement and intellectual potential are qualities necessary for success both as an applicant to medical school and as a physician. Integrity and responsibility are attributes of major importance considered by selection committees. These qualities are measured not only by grades but by recommendations from undergraduate faculty, scores on the MCAT, and interview assessments.

According to MSAR, the large majority of medical schools will not accept on-line courses in fulfillment of required courses. Required courses generally include chemistry, physics, biological sciences, English and mathematics. A significant number of medical schools will not accept on-line courses in the behavioral/social sciences. It is extremely important to remain in contact with the premedical advisor, no matter which school or major is chosen. The Honors Program should be of particular interest to the pre-med student. In rare instances, the Junior Honors Medical Program at the University of Florida may be recommended. State medical schools are located at UF, USF, and FSU. The University of Miami has a private medical school.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	+*CHM2210, Organic Chemistry I	3
	CHM2210L, Organic Chemistry I Lab	2
	+*CHM2211, Organic Chemistry II	4
	CHM2211L, Organic Chemistry II Lab	1
	+*Approved Physics	3
Electives		0
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/MEDICAL TECHNOLOGY
(MEDT-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies in clinical laboratory science programs. These upper division programs include a year of upper division work (accelerated program) at selected institutions or may be completed in a 2 + 1 program in which clinical training is completed after receipt of the B.S. degree. Admission to the clinical phase of the upper division program is usually competitive and usually requires a minimum GPA of 2.5 in all science or math/science courses attempted. Graduates are eligible to take the Registry Examination of the American Society of Clinical Pathologists or the NCA. Passing these or similar tests is a general requirement for employment in the profession. Clinical laboratory scientists (previously called medical technologists) are employed by medical facilities to manage, design, and perform laboratory tests to aid in diagnosis and recovery of patients. State universities having the upper division work include UWF, FIU, FAU, USF, and UCF. The following track was designed in conjunction with the University of West Florida program. It is strongly recommended that students carefully examine the catalog of the university to which transfer is expected.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*MAC1140, Pre-Calculus Algebra	3
	•+*STA2023, Statistics	3
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	BSC2010L, Biology for Science Maj. I Lab	1
	•+*BSC2085, Anatomy and Physiology I	3
	BSC2085L, Anatomy and Physiology I Lab	1
	+*BSC2086, Anatomy and Physiology II	3
	BSC2086L, Anatomy and Physiology II Lab	1
	+*CHM2210, Organic Chemistry I	3
	+*CHM2210L, Organic Chemistry I Lab	2
	+*CHM2211, Organic Chemistry II	4
	CHM2211L, Organic Chemistry II Lab	1
Electives		0
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/METEOROLOGY
 (METR-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in meteorology. A degree in meteorology is required for weather forecasting and modeling of weather phenomena on data analysis. Atmospheric research is a growing field for people with advanced degrees in meteorology. Job opportunities are available with the federal government, the military, and with private industries.

The B.S. degree in Atmospheric Science and Meteorology is offered only at Florida State University. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus I	4
	+*MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	•+PHY2048, University Physics I	4
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	PHY2048L, University Physics I Lab	1
	PHY2049, University Physics II	4
	PHY2049L, University Physics II Lab	1
Electives		15
TOTAL DEGREE HOURS		**60**

Recommended electives:
 MET1010, Introduction to Meteorology, 3 crs.
 STA2023, Statistics, 3 crs.
 MAC2313, Calculus III, 4 crs.
 MAP2302, Differential Equations, 3 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/MIDDLE SCHOOL SCIENCE
EDUCATION (SCMD-AA)**

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies in science education suitable for teaching in middle schools. The completion of the four year science education program designed for this grade level will lead to Florida certification in middle school science. Students may have additional requirements for admission to a teacher-preparatory program. Please contact a GCSC advisor or the transfer institution for further guidance.

All education majors should be aware that state of Florida teacher certification requires a thorough background check by the Florida Department of Law Enforcement prior to the student entering the classroom for observations. The college requires the submission of written verification of approved and completed background checks before students may complete on-site requirements. Students doing observations in school systems must go to the district in which they will do their observations and comply with the requirements of that system. The students will be required to pay a fee for the cost of the background check.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	OCE1001, Oceanography	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	EDF1005, Introduction to the Teaching Profession	3
	EDF2085, Introduction to Diversity for Educators	3
	EME2040, Introduction to Technology for Educators	3
	GLY1010, Geology	3
	BSC2010L, Biology for Science Majors I Lab	1
	Students must also complete one of the following two-semester sequences in science: •+*PHY2053/L, College Physics I and Lab (4 crs.) and +*PHY2054/L, College Physics II and Lab (4 crs.) or •+*CHM1045/L, General Chemistry (4 crs.) and +* CHM1046/L, General Chemistry and Qualitative Analysis (5 hrs.)	8-9
Electives		2-3
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/MUSIC
(MUSC-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in music. Music is a limited access program at most universities. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	+MUL2110, Survey of Music Lit	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	MUT1111, Music Theory I	3
	+MUT1112, Music Theory II	3
	+MUT2116, Music Theory III	3
	+MUT2117, Music Theory IV	3
	MUT1241, Ear Training & Sight Singing I	1
	+MUT1242, Ear Training & Sight Singing II	1
	+MUT2246, Ear Training & Sight Singing III	1
	+MUT2247, Ear Training & Sight Singing IV	1
	MVK1111, Class Piano I	1
	+MVK2121, Class Piano II	1

Electives	Students should select from the following:
	+Applied Music Prep. (private lessons), 2 crs. each
	   (Open to music and theatre majors ONLY)
	+Applied Music (private lessons), 2 crs. each
	   (Open to music and theatre majors ONLY)
	Performance Ensemble, 1 cr. each
	
	•MUL2010, Understanding Music, 3 crs.
	+MUS2550, Music Technology, 3 crs.
		6

TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/NURSING
(NUR-AA)

AREA OF CONCENTRATION: This curriculum is designed to prepare students for entry into a university bachelor degree nursing (BSN) program. Because nursing is a limited access program at most Florida universities, **students are strongly encouraged to be in close contact with a GCSC nursing advisor and a BSN advisor at the university they plan to attend before beginning this course of study**. Students need a clear understanding of the university admission requirements and the difference between AA and AS nursing programs.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*STA2023, Statistics	3
	See General Education Requirement	3
Natural Sciences Area		
Physical Science	CHM1032, Gen, Organic, Biochemistry or higher	3
Biological Science	•BSC2085, Anatomy and Physiology I	3
Social Sciences Area		
Behavioral Sciences	•PSY2012, Psychology	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2085L, Anatomy and Physiology I Lab	1
	+BSC2086, Anatomy and Physiology II	3
	BSC2086L, Anatomy and Physiology II Lab	1
	HUN1201, Nutrition	3
	+MCB2004, Microbiology	3
	MCB2004L, Microbiology Lab	1
	DEP2004, Developmental Psychology	3
	•SYG2000, Sociology	3
Electives		6
TOTAL DEGREE HOURS		**60**

Most Florida BSN programs require a foreign language prior to entry.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/NUTRITION, FOOD, AND EXERCISE SCIENCE
(NUTS-AA)**

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for transfer into a baccalaureate program that will prepare students to become dietitians and nutritionists. In addition, the baccalaureate program will also prepare the student for institutional food service administration and product development for the food industry.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC1105, College Algebra	3
	+*MAC1140, Precalculus Algebra	3
Natural Sciences Area		
Physical Science	•+CHM1045, General Chemistry	3
Biological Science	•+* [1]BSC2010, Biology for Science Majors	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	•+BSC2085, Anatomy and Physiology I	3
	BSC2085L, Anatomy and Physiology I Lab	1
	+BSC2086, Anatomy and Physiology II	3
	BSC2086L, Anatomy and Physiology II Lab	1
	CHM1045L, General Chemistry Lab	1
	+CHM1046, Gen Chem/Qual Analysis	3
	CHM1046L, Gen Chem/Qual Analysis Lab	1
	+CHM2210, Organic Chemistry	3
	CHM2210L, Organic Chemistry Lab	1
	HUN1201, Principles of Nutrition	3
	MCB2004, Microbiology	3
	MCB2004L, Microbiology Lab	1
Electives		0
TOTAL DEGREE HOURS		**60**

[1]Lab not required, but highly recommended.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/OCCUPATIONAL THERAPY
(OCCT-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies in occupational therapy.   Admission to the upper division degree program is highly competitive, and a minimum GPA of 2.5 is required for application at most institutions. Some institutions have higher minimum GPA requirements for applicants. In addition to competitive grades, admission to upper division programs requires volunteer work with certified occupational therapists and successful completion of the courses listed below. After completion of the four-year degree, the prospective occupational therapist must complete a year of internship, during which they must pass a state professional certifying exam. Occupational therapists are employed by hospitals, schools, and mental health facilities to help individuals who are impaired by physical illness, injury, psychological disorder, or developmental disability regain daily living skills and become self-sufficient. State universities having the upper division work include Florida A&M, Florida International University, and Florida Gulf Coast University. The University of Florida offers occupational therapy as a master's program only, as do many other universities. It is important that the student consult the catalog of the university to which transfer is planned.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus I	4
	•+*STA2023, Statistics	3
Natural Sciences Area		
Physical Science	OCE1001, Oceanography	3
Biological Science	•+*BSC2010, Biology for Science Majors	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+BSC2010L, Biology for Science Majors I Lab	1
	GLY1010, Geology	3
	BSC2311, Introduction to Marine Biology	3
	•+*CHM1045, General Chemistry I	3
	+CHM1045L, General Chemistry I Lab	1
	+*CHM1046, General Chemistry II	3
	+CHM1046L, General Chemistry II Lab	2
	•+PHY2053, College Physics I, 3 crs. PHY2053L, College Physics I Laboratory, 1 cr. OR •+*PHY2048, University Physics, 4 crs. +PHY2048L, University Physics Lab, 1 cr.	4-5
Electives		2-3
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/OCEANOGRAPHY
(OCEN-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies interdisciplinary options leading to graduate degrees in oceanography. There is no undergraduate bachelor's program in the state universities in Florida; however, an undergraduate degree in oceanographic engineering may be earned at UF. Students interested in pursuing a graduate degree in oceanography should fulfill the courses listed below as a portion of their undergraduate preparation for one of the five areas of specialty leading to graduate work in oceanography: chemistry, physics, biology, geology, and oceanographic engineering.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus I	4
	+*MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	OCE1001, Oceanography	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Majors I Lab	1
	GLY1010, Geology	3
	GLY1010L, Geology Lab	1
	•+*CHM1045, General Chemistry	3
	CHM1045L, General Chemistry Lab	1
	•+*PHY2048, University Physics I	4
	PHY2048L, University Physics I Lab	1
	+COP2200, Fortran Programming	3
	ECO2023, Economics, Micro	3
Electives		2
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/OPTOMETRY
 (OPTO-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students who plan to become doctors of optometry. The course-work listed below must be completed prior to applying for admission to optometry school. Although a bachelor's degree is not required for admission to a college of optometry, it is highly recommended. Students may major in any area of studies, but must have an in-depth knowledge of biology and chemistry in order to master the optometry curriculum. Most students elect to major in biology or a related field at the university. Although a student may attend any university for the bachelor's degree, the only school of optometry in Florida at this time is Nova Southeastern University School of Optometry. Seventeen states have schools of optometry, and each school may have slightly different requirements. The student is expected to become familiar with the requirements of the specific school to which admission is sought. The student should see the optometry advisor for additional information concerning admissions requirements and for assistance in selecting the appropriate program.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*MAC1140, Pre-Calculus Algebra	3
	+*MAC1114, Trigonometry	3
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	+*MCB2004, Microbiology	3
	MCB2004L, Microbiology Lab	1
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	+*CHM2210, Organic Chemistry I	3
	CHM2210L, Organic Chemistry I Lab	2
	+Approved Physics	4
Electives		0
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/ORNAMENTAL HORTICULTURE
(PLNT-AA)

AREA OF CONCENTRATION:. This transfer track is designed to prepare students for upper division studies in horticulture and related areas such as agronomy, plant pathology, plant physiology, and botany. The study of horticulture involves growing and improving plants for use in both production and visual settings. Horticulture studies are offered at FAMU and UF. Botany is offered at all state universities. It is important that students check with the horticulture advisor and with catalogs from the state universities of interest. The track listed below is designed to transfer into the Ornamental Horticulture program in the College of Agriculture at Florida A & M University.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*MAC1140, Pre-Calculus Algebra	3
	+*MAC1114, Trigonometry	3
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	CHM1045L, General Chemistry Lab	1
	•+PHY2053, College Physics I	3
	+PHY2053L, College Physics I Lab	1
	ECO2023, Economics, Micro	3
	+SPC1608, Introduction to Public Speaking	3
Electives		8
TOTAL DEGREE HOURS		**60**

Recommended elective:
    STA2023, Statistics, 3 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/PHARMACY
(PHRM-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies in pharmacy. Students are expected to complete the A.A. degree at a community college or university before applying for admission to the particular college of pharmacy. In addition to the courses listed below, all colleges of pharmacy require students to have completed the two semester sequence of organic chemistry with lab (CHM 2210/CHM2210L and CHM2211/CHM2211L) prior admission to the college of pharmacy. Three universities in Florida offer degrees in pharmacy: FAMU, UF, and Nova Southeastern University (private). The older B.S. in pharmacy has been phased out and these universities now offer the Pharm.D. degree, exclusively. Pharmacy programs are highly competitive. Most schools have 110-120 applicant slots, but receive in excess of 500 applications, a number that is increasing yearly. Applicants to pharmacy school are expected to have a minimum GPA of 3.2; however, a higher GPA is necessary for an applicant to be competitive. Those pharmacy schools requiring the PCAT (Pharmacy College Aptitude Test) generally consider a competitive score to be the 85th percentile or better. It is very important to stay in close contact with the academic advisor to plan the curriculum and to address other factors affecting admission.

The University of Florida's School of Pharmacy requires BSC 2085-2086 (with labs) and SPC 1608 in addition to the following courses as pre-admission requirements.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*MAC1140, Pre-Calculus Algebra	3
	•+*MAC2311, Calculus I	4
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	•+*PHY2053, College Physics I	3
	PHY2053L, College Physics I Lab	1
	+*PHY2054, College Physics II	3
	PHY2054L, College Physics II Lab	1
	+*Approved Organic Chemistry	4
Electives		0
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/PHILOSOPHY
(PHIL-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in philosophy as an instructor, writer, or director of a humanities program in a hospital, library or museum. Students seeking a career in philosophy should plan on pursuing a graduate degree. An undergraduate degree in philosophy is also an excellent background for professional training in law, journalism and theology.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
Electives		24
TOTAL DEGREE HOURS		**60**

Recommended electives:

+* PHI2600, Ethics, 3 crs.
    (Meets Humanities, Philosophy/Religion requirement for A.A.)
+* PHH2060, Introduction to Classical Philosophy, 3 crs.
    (Meets Humanities, Philosophy/Religion requirement for A.A.)
+* PHI2635, Biomedical Ethics, 3 crs.
    (Meets Humanities, Philosophy/Religion requirement for A.A.)
    EUH1001, Western Civilization II, 3 crs.
    (Meets Social Sciences, History requirement for A.A.)
+* PHI2010, Introduction to Philosophy, 3 crs.
    (Meets Humanities, Philosophy/Religion requirement for A.A.)
+* REL2300, Religions of the World, 3 crs.
    (Meets Humanities, Philosophy/Religion requirement for A.A.)
+* REL2315, Eastern Religions, 3 crs.
    (Meets Humanities, Philosophy/Religion requirement for A.A.)

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/PHYSICAL EDUCATION (PE-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in teaching physical education in grades K - 12 or other related fields such as sports business specialization, fitness management specialization, coaching specialization, and athletic training specialization. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend. Students may have additional requirements for admission to a teacher-preparatory program. Please contact a GCSC advisor or the transfer institution for further guidance. The state of Florida requires a thorough background check by the Florida Department of Law Enforcement prior to students entering the classroom for observations. The college requires the submission of written verification of approved and completed background checks before students may complete on-site course requirements. Student doing observations in school systems must go to the district in which they will do their observations and comply with the requirements of that system. GCSC only has articulation agreements with Gulf, Franklin, and Bay school districts for such observation experiences.   The students will be required to pay a fee for the cost of the background check.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	•+BSC2085, Anatomy and Physiology I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	EDF1005, Introduction to the Teaching Profession	3
	EDF2085, Introduction to Diversity for Educators	3
	EME2040, Introduction to Technology for Educators	3
	BSC2085L, Anatomy and Physiology Lab	1
	HLP1081, Wellness	2
	+BSC2086, Anatomy and Physiology II	3
	BSC2086L, Anatomy and Physiology Lab	1
	PEN or PEM Activity Classes	2
Electives		6
TOTAL DEGREE HOURS		**60**

Recommended elective: EEC1701, Child Development, 4 crs.

(Students should coordinate with their advisor to determine which electives will transfer to the four year institution of their choice. Also, students should fulfill the foreign language requirements, if necessary.)

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/PHYSICAL THERAPY
(PT-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies in physical therapy. In Florida, the physical therapy programs are five years in length and lead to M.S. degrees in physical therapy: The UF, FAMU, UCF, UNF, and FIU offer degrees in physical therapy. All schools require that students successfully complete the courses listed below. The programs are highly competitive, so students are advised to maintain a minimum GPA of 3.0, although a higher GPA is needed to meet minimum standards at some of the schools. Students must also complete volunteer time under the supervision of a registered physical therapist. Some schools also require their applicants to take the Allied Health Professions Admissions Test. Check with the program advisor for more details. Graduates from schools of physical therapy are in great demand to manage rehabilitative programs for people suffering from a variety of illnesses and injuries.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*MAC1114, Trigonometry	3
	•+*STA2023, Statistics	3
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	•+*PHY2053, College Physics I	3
	PHY2053L, College Physics I Lab	1
	+*PHY2054, College Physics II	3
	PHY2054L, College Physics II Lab	1
	DEP2004, Developmental Psychology	3
	Approved Anatomy and Physiology	2
Electives		0
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/PHYSICS
(PHYS-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students entering the university as a physics major. All state public universities offer a B.S. degree in physics. Florida State University also offers a degree in radiation physics, and the University of Florida offers a B.S. degree in Astronomy (which requires the same physics transfer track at Gulf Coast State College). Most university physics programs require a foreign language for which a country speaking that language is also involved in physics research. Students may choose among the following: French, German, Japanese, and Russian. It is strongly recommended that students be familiar with the admissions requirements for the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC2311, Calculus I	4
	+*MAC2312, Calculus II	4
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+*MAC2313, Calculus III	4
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	•+*PHY2048, University Physics I	4
	PHY2048L, University Physics I Lab	1
	+*PHY2049, University Physics II	4
	PHY2049L, University Physics II Lab	1
	+*Approved mathematics elective	2
Electives		0
TOTAL DEGREE HOURS		**60**

Recommended mathematics elective:
    MAP2302, Differential Equations, 3 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/POLITICAL SCIENCE
(POLS-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for political science programs at a college or university. Such a degree can lead to a career in education, government administration, international relations, law, mass communication, and policy institutes. Political Science is not a limited access program at most Florida universities. However, students are encouraged to be familiar with the admissions requirement at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	CPO2002, Comparative Government or INR 2002, International Relations or POS2112, State and Local Government	6
Electives		18
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/PSYCHOLOGY
(PSYC-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for completion of an Associate of Arts degree leading to a bachelor's degree in psychology. The field of psychology concerns the study of behavior and mental processes. This broad focus makes psychology a relevant course of study for any student intending to develop a career in the social and behavioral sciences, not just in psychology. Possible careers that would benefit from completion of a degree in psychology are education, management, medicine, law, counseling, and other human services careers. Psychology is a limited access program at most Florida universities. For example, Florida State University requires an approved A.A. degree, a minimum GPA of 2.6 or better in all attempted courses, and completion with a "C" or better of an introductory statistics course, along with additional specific requirements, as listed below. Students are strongly encouraged to be familiar with the admissions requirements at the university they plan to attend and to see a psychology advisor within the first semester of attending GCSC.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC1105, College Algebra	3
	•+*STA2023, Elementary Statistics	3
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	DEP2004, Developmental Psychology	3
Electives		21
TOTAL DEGREE HOURS		**60**

Recommended elective:
    CLP1001, Human Relations, 3 crs.

NOTE: Florida State University requires one foreign language through the first semester of the second year (e.g., Second-Year Spanish I) which will also fulfill the Area II Humanities requirement. If you had two years of a single foreign language in high school, you may be able to begin the second year, first semester foreign language. See your foreign language instructor for details and permission. Florida State University also requires SPC1608, Introduction to Public Speaking. FSU requires psychology students to take STA2122. If you have taken the required six hours of mathematics for the AA at Gulf Coast and have not taken this course, FSU will give you upper level credit for the course when you complete it. FSU also requires a diversity course, such as LIT 2380 Women in Literature.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/RADIOLOGIC SCIENCE
(RADS-AA)

AREA OF CONCENTRATION: This curriculum is designed to prepare students to enter a baccalaureate degree program in radiologic science at a university.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC1105, College Algebra	3
	+*MAC1114, Plane Trigonometry	3
Natural Sciences Area		
Physical Science	•+PHY2053, College Physics I	3
Biological Science	•+BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	CGS1570, Microcomputer Applications	3
	BSC2010L, Biology for Science Majors I Lab	1
	•+BSC2085, Anatomy and Physiology I	3
	BSC2085L, Anatomy and Physiology I Lab	1
	+BSC2086, Anatomy and Physiology II	3
	BSC2086L, Anatomy and Physiology II Lab	1
	PHY2053L, College Physics I Lab	1
	+PHY2054, College Physics II	3
	PHY2054L, College Physics II Lab	1
Electives		7
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/RECREATION - LEISURE SERVICES MANAGEMENT EMPHASIS (RECR-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in leisure services. The four year universities and colleges offer a variety of leisure services programs including resort and commercial recreation, corporate and industrial recreation, fitness management, municipal and county recreation, therapeutic recreation, and teacher certification. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Principles of Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	DEP2004, Developmental Psychology	3
	CGS1570, Microcomputer Applications	3
	MAN2021, Principles of Management	3
	MAR2011, Marketing	3
	SPC1608, Introduction to Public Speaking	3
Electives		9
TOTAL DEGREE HOURS		**60**

(Students should coordinate with their advisor to determine which electives will transfer to the four year institution of their choice. Also, students should fulfill the foreign language requirement, if necessary.)

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/RECREATION - <u>RECREATION PROGRAM EMPHASIS</u>
(REC3-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in leisure services. The four year universities and colleges offer a variety of leisure services programs including resort and commercial recreation, corporate and industrial recreation, fitness management, municipal and county recreation, therapeutic recreation, and teacher certification. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•SYG2000, Principles of Sociology	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	DEP2004, Developmental Psychology	3
	CGS1570, Microcomputer Applications	3
	MAR2011, Marketing	3
	ENC2210, Technical Writing	3
Electives		12
TOTAL DEGREE HOURS		**60**

(Students should coordinate with their advisor to determine which electives will transfer to the four year institution of their choice. Also, students should fulfill the foreign language requirement, if necessary.)

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/RECREATION - <u>NATURAL RESOURCES EMPHASIS</u>
(REC1-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in leisure services. The four year universities and colleges offer a variety of leisure services programs including resort and commercial recreation, corporate and industrial recreation, fitness management, municipal and county recreation, therapeutic recreation, and teacher certification. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Principles of Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	CGS1570, Microcomputer Applications	3
	DEP2004, Developmental Psychology	3
	MAR2011, Marketing	3
Electives		15
TOTAL DEGREE HOURS		**60**

(Students should coordinate with their advisor to determine which electives will transfer to the four year institution of their choice. Also, students should fulfill the foreign language requirement, if necessary.)

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/RECREATION - <u>THERAPEUTIC RECREATION EMPHASIS</u>
(REC2-AA)**

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in leisure services. The four year universities and colleges offer a variety of leisure services programs including resort and commercial recreation, corporate and industrial recreation, fitness management, municipal and county recreation, therapeutic recreation, and teacher certification. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	•+BSC2085, Anatomy and Physiology I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	DEP2004, Developmental Psychology	3
	+BSC2085L, Anatomy and Physiology I Lab	1
Electives		20
TOTAL DEGREE HOURS		**60**

(Students should coordinate with their advisor to determine which electives will transfer to the four year institution of their choice. Also, students should fulfill the foreign language requirement, if necessary.)

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/RELIGION
(RELG-AA)**

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for careers in religious service or scholarship. Most students majoring in religious studies complete their training in seminaries or graduate schools with religion or theology programs of study. Students are encouraged to be familiar with the admissions requirements at the university or seminary they plan to attend. Students are strongly encouraged to complete two years of foreign language courses at Gulf Coast State College in preparation for later studies.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
Electives		24
TOTAL DEGREE HOURS		**60**

Recommended electives:

•ANT2000, Anthropology, 3 crs.
(Meets Social Sciences, Behavioral Sciences requirement for A.A.)
EUH1001, Western Civilization II
(Meets Social Sciences, History requirement for A.A.)

•SYG2000, Sociology, 3 crs.
(Meets Social Sciences, Behavioral Sciences requirement for A.A.)
+* REL2121, Religion in American Life, 3 crs.
(Meets Humanities, Philosophy/Religion requirement for A.A.)
+* REL2300, Religions of the World, 3 crs.
(Meets Humanities, Philosophy/Religion requirement for A.A.)
+* REL2315, Eastern Religions, 3 crs.
(Meets Humanities, Philosophy/Religion requirement for A.A.)
+* PHI2010, Introduction to Philosophy, 3 crs.
(Meets Humanities, Philosophy/Religion requirement for A.A.)

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/RESPIRATORY CARE (THERAPY)
(RET-AA)

AREA OF CONCENTRATION: To prepare students to enter a baccalaureate cardiopulmonary science degree program at a university.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*MAC1105, College Algebra	3
	•+*STA2023, Statistics	3
Natural Sciences Area		
Physical Science	•+PHY2053, College Physics I	3
Biological Science	•+BSC2085, Anatomy and Physiology I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2085L, Anatomy and Physiology I Lab	1
	+BSC2086, Anatomy and Physiology II	3
	BSC2086L, Anatomy and Physiology II Lab	1
	+*MAC1140, Pre-Calculus Algebra	3
	+*MAC1114, Plane Trigonometry	3
	PHY2053L, College Physics I Lab	1
	•+BSC2010, Biology for Science Majors	3
	BSC2010L, Biology for Science Majors Lab	1
	+MCB2004, Microbiology	3
	MCB2004L, Microbiology Lab	1
	•+CHM1045, General Chemistry	3
	CHM1045L, General Chemistry Lab	1
Electives		0
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/SCIENCE EDUCATION

AREA OF CONCENTRATION: These transfer tracks are designed to prepare students for upper division studies in one of several fields in science education. The completion of the four year program in science education will lead to Florida certification in high school science. Students may have additional requirements for admission to a teacher-preparatory program. Please contact a GCSC advisor or the transfer institution for further guidance.

All education majors should be aware that state of Florida teacher certification requires a thorough background check by the Florida Department of Law Enforcement prior to students entering the classroom for observations. The college requires the submission of written verification of approved and completed background checks before students may complete on-site course requirements. Student doing observations in school systems must go to the district in which they will do their observations and comply with the requirements of that system. GCSC only has articulation agreements with Gulf, Franklin, and Bay school districts for such observation experiences. The students will be required to pay a fee for the cost of the background check.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	3
	See General Education Requirement	3
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•PSY2012or •SYG2000, Psychology/Sociology	3
History	EUH1000 or 1001, Western Civilization	3
Government	•POS2041, American National Government	3
Additional Common Prerequisites		
	EDF1005, Introduction to the Teaching Profession	3
	EDF2085, Introduction to Diversity for Educators	3
	EME2040, Introduction to Technology for Educators	3
	+*MAC1140, Pre-Calculus Algebra	3
	+*MAC1114, Trigonometry (Meets math requirement for A.A.)	3
	+SPC1608, Introduction to Public Speaking	3
	BIOLOGY COMPONENT (SCED-AA)	
	•+*BSC2010, Biology for Science Majors I (Meets biology requirement for A.A.)	3
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	Elective	1 or 2
	Students must select one of the following two-semester sequences (Meets physical science requirement.)	8 or 9
	•+*CHM1045, General Chemistry, 3 crs. CHM1045L, General Chemistry Lab, 1 cr.	

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

	+* CHM1046, Chemistry with Qual. Analysis, 3 crs. CHM1046L, Chemistry with Qual. Anal. Lab, 2 crs. **or** •+*PHY2053, College Physics I, 3 crs. PHY2053L, College Physics I Lab, 1 cr. +* PHY 2054, College Physics II, 3 crs. PHY2054L, College Physics II Lab, 1 cr.	
	CHEMISTRY COMPONENT (SCHM-AA)	
	•+*CHM1045, General Chemistry (Meets physical science requirement for A.A.)	3
	CHM1045L, General Chemistry Lab	1
	+* CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	Elective	3
	Students must select one of the following two-semester sequences •+*BSC2010, Biology for Science Majors I, 3 crs. BSC2010L, Biology of Science Majors I Lab, 1 cr. +* BSC 2011, Biology for Science Majors II, 3 crs. BSC2011L, Biology of Science Majors II Lab, 1 cr. **or** •+*PHY2053, College Physics I, 3 crs. PHY2053L, College Physics I Lab, 1 cr. +* PHY2054, College Physics II, 3 crs. PHY2054L, College Physics II Lab, 1 cr. (If students do not take the BSC2010 sequence above, then they must take BSC1005 or approved biology to meet the biology requirement for the A.A.)	8
	PHYSICS COMPONENT (SPHY-AA)	
	•+*PHY2053, College Physics I	3
	PHY2053L, College Physics I Lab	1
	+* PHY2054, College Physics II	3
	PHY2054L, College Physics II Lab	1
	Elective	1 or 2
	Students must select one of the following two-semester sequences: •+*BSC2010, Biology for Science Majors I, 3 crs. BSC2010L, Biology for Science Majors I Lab, 1 cr. +* BSC 2011, Biology for Science Majors II, 3 crs. BSC2011L, Biology for Science Majors II Lab, 1 cr. **or** •+*CHM1045, General Chemistry, 3 crs. CHM1045L, General Chemistry Lab, 1 cr. +* CHM1046, Chemistry with Qual. Analysis, 3 crs. CHM1046L, Chemistry with Qual. Anal. Lab, 2 crs. (If students do not take the BSC2010 sequence above, then they must take BSC1005 or approved biology to meet the biology requirement for the A.A.)	8 or 9
	EARTH/SPACE COMPONENT (SEAR-AA)	
	OCE1001, Oceanography (Meets physical science requirement for A.A.)	3
	GLY1010, Geology	3

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

	GLY1010L, Geology Lab	1
	Science Elective	2 or 3
	Students must select one of the following two-semester sequences	8 or 9

	•+*BSC2010, Biology for Science Majors I, 3 crs.
	    BSC2010L, Biology for Science Majors I Lab, 1 cr.
	+* BSC2011, Biology for Science Majors II, 3 crs.
	    BSC2011L, Biology for Science Majors II Lab, 1 cr.
	or
	•+*CHM1045, General Chemistry, 3 crs.
	    CHM1045L, General Chemistry Lab, 1 cr.
	+* CHM 1046, Chemistry with Qual. Analysis, 3 crs.
	    CHM1046L, Chemistry with Qual. Anal. Lab, 2 crs.
	or
	•+*PHY2053, College Physics I, 3 crs.
	    PHY2053L, College Physics I Lab, 1 cr.
	+* PHY2054, College Physics II, 3 crs.
	    PHY2054L, College Physics II Lab, 1 cr.
	(If students do not take the BSC2010 sequence above, then they must take BSC1005 or approved biology to meet the biology requirement for the A.A.)	

	MIDDLE GRADES COMPONENT (SCMD-AA) **See Middle School Science Education**	
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/SOCIAL STUDIES EDUCATION
(SSED-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a teaching career in middle school or high school. The four year degree will lead to Florida certification for grades 6-12. Social studies education at Florida universities is a limited access program. Students are encouraged to become familiar with the admissions requirements at the university they plan to attend. Students may have additional requirements for admission to a teacher-preparatory program. Please contact a GCSC advisor or the transfer institution for further guidance. The state of Florida requires a thorough background check by the Florida Department of Law Enforcement prior to students entering the classroom for observations. The college requires the submission of written verification of approved and completed background checks before students may complete on-site course requirements. Students doing observations in school systems must go to the district in which they will do their observations and comply with the requirements for that system. The students will be required to pay a fee for the cost of the background check.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	EDF1005, Introduction to the Teaching Profession	3
	EME2040, Introduction to Technology for Educators	3
	EDF2085, Introduction to Diversity for Educators	3
Electives		15
TOTAL DEGREE HOURS		**60**

Recommended electives:

AMH2010 or •AMH2020, U.S. History, 3 crs.

•ECO2013 or +ECO2023, Economics Macro/Micro, 3 crs.
EUH1000 or EUH1001, Western Civilization, 3 crs.
SPC1608, Introduction to Public Speaking, 3 crs.
EEC1701, Child Development, 4 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/SOCIAL WORK
(SCWK-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in the helping and or counseling and mental health care professions. A title of Generalist Social Worker can be earned with the Bachelor's of Social Work (BSW) degree and can be completed at the FSU Panama City Campus. In addition to completion of the BSW, a Master's Degree (MSW) can be obtained at the FSU-PC campus and can help prepare students for state licensure at the Licensed Clinical Social Workers (LCSW) level. Both the bachelor's and master's degrees will require internships at one of the local mental health agencies in addition to course work. It is highly recommended that students become familiar with the admissions requirements at the university or college they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	•PSY2012, Psychology	3
	SOW2020, Introduction to Social Work	3
Electives		18
TOTAL DEGREE HOURS		**60**

FSU requires all Social Work students to have a minimum grade of "B" in SYG2000, PSY2012, POS2041, BSC1005, and ECO2013/2023 for entry into the Social Work program. FSU also requires a computer literacy course for entry into the program, as CGS1570.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/SOCIOLOGY
(SOCI-AA)**

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in the broad discipline of sociology. The discipline of sociology primarily concerns itself with patterns of group and organizational behavior; social interaction; changes in the character, size, distribution, and population of society; the structure and operation of organization; social phenomena having to do with human health and disease; and the complex interrelationship of the individuals as well as society. Sociological practitioners work everywhere from teaching, counseling, and marketing to public health, social work, community planning, industry, consumer safety, and employee relations. It is highly recommended that students become familiar with the admissions requirements at the university or college they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	SYG2010, Social Problems	3
	SYG2430, Marriage and Family Living	3
Electives		18
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/SPECIAL EDUCATION
(CASE-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in teaching children and youth who are intellectually, emotionally, or behaviorally disabled. Special education is a limited access program at most Florida universities. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend. Students may have additional requirements for admission to a teacher-preparatory program. Please contact a GCSC advisor or the transfer institution for further guidance. The state of Florida requires a thorough background check by the Florida Department of Law Enforcement prior to students entering the classroom for observations. The college requires the submission of written verification of approved and completed background checks before students may complete on-site course requirements.   Students doing observations in school systems must go to the district in which they will do their observations and comply with the requirements for that system. The students will be required to pay a fee for the cost of the background check.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	EDF1005, Introduction to the Teaching Profession	3
	EDF2085, Introduction to Diversity for Educators	3
	EME2040, Introduction to Technology for Educators	3
Electives		15
TOTAL DEGREE HOURS		**60**

Recommended electives:

+   SPC1608, Introduction to Public Speaking, 3 crs.
    EEC1701, Childhood Development, 4 crs.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/SPORTS MEDICINE/ATHLETIC TRAINER
(SMAT-AA)**

AREA OF CONCENTRATION: This transfer track prepares students for entering upper-division studies in sports medicine and athletic training. The completion of the four year program will prepare students for working with injury prevention and recognition, immediate care, rehabilitation, health care management, and professional development in a sports medicine environment. Students pursuing the athletic training option are required to pass The National Athletic Trainers' Association Board of Certification (NATABOC).

The Florida State University's College of Human Sciences offers a degree in Nutrition, Food, and Exercise Services. There are four areas of emphasis from which to choose: exercise physiology, fitness, physical therapy, and sports medicine (athletic training).

The University of Florida's College of Health and Human Performance offers a degree in Exercise and Sports Sciences (ESS). Specializations include Fitness/-Wellness, Sports Management, Athletic Training, preparation of physical education teachers and coaches, and exercise physiology.

Students interested in using this program to gain admission to medical school should consult the medical advisor for help in determining the appropriate sequence of courses.

It is strongly recommended that students be familiar with the admission requirements of the university they plan to attend.

Communications Area	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	•+*STA2023, Statistics	3
	+*MAC1114, Plane Trigonometry	3
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry (or higher level)	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Bio for Science Majors I Lab	1
	•+*BSC2085, Anatomy and Physiology I	3
	BSC2085L, Anatomy and Physiology I Lab	1
	+*BSC2086, Anatomy and Physiology II	3
	BSC2086L, Anatomy and Physiology II Lab	1
	+*CHM1045L, General Chemistry Lab	1
	•+ PHY2053, College Physics I	3
	+PHY2053L, College Physics I Lab	1
	HUN1201, Principles of Nutrition	3
	+*MAC1140, Precalculus Algebra	3
Electives		4
TOTAL DEGREE HOURS		**60**

Recommended electives: PEM or PEN Activity Class

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/THEATRE
(THET-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in theatre arts. Theatre is a limited access program at most universities. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	+THE2305, Script Analysis	3
	TPP2110, Acting I	3
	+TPP2111, Acting II	3
	TPA2200, Stagecraft	3
	TPP2250, Introduction to Musical Theatre	3
	TPP1700, Voice Techniques	3
	TPP1500, Movement Techniques for the Theatre	3
	THE1925, Play Production	1
Electives		2
TOTAL DEGREE HOURS		**60**

Approved electives:

    TPA1290L, Technical Theatre Lab I, 2 crs.
+   TPA2000, Theatre Design Basics, 3 crs.
+   TPP2300, Directing I, 3 crs.
+   TPP2930, Selected Topics in Theatre Performance, 3 crs.
    MVV1012, Applied Musical Theatre Voice Prep, 2 crs.
+   MVV1312, Applied Musical Theatre Voice
      (Freshman Level), 2 crs.
+   MVV2322, Applied Musical Theatre Voice
      (Sophomore Level), 2 crs.
    DAA2000, Dance Techniques for Theatre, 1 cr.

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/VETERINARY MEDICINE
(VET-AA)**

AREA OF CONCENTRATION: This transfer track is designed for students seeking admission to a program of veterinary medicine. The College of Veterinary Medicine at the University of Florida requires 80 semester hours of college-level course work before entering. However, most successful applicants have completed a bachelor's degree. Most veterinary medicine programs require applicants to have taken the Graduate Record Examination (GRE). Grades of C" or better are required on all professional courses; however, most successful applicants have a GPA in excess of 3.5. Academic performance, approved work experience, and professional potential are all considered by selection committees as they review applicants for veterinary medicine. Pre-vet students are urged to review the entrance requirements for the veterinary program of their choice. Students are strongly urged to see the pre-vet advisor for assistance in determining appropriate work experience, course selections, and residency requirements.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	+*MAC1114, Trigonometry	3
	•+*MAC2311, Calculus I	4
Natural Sciences Area		
Physical Science	•+*CHM1045, General Chemistry	3
Biological Science	•+*BSC2010, Biology for Science Majors I	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
	BSC2010L, Biology for Science Maj. I Lab	1
	+*BSC2011, Biology for Science Majors II	3
	BSC2011L, Biology for Science Maj. II Lab	1
	CHM1045L, General Chemistry Lab	1
	+*CHM1046, Chemistry with Qual. Analysis	3
	CHM1046L, Chemistry with Qual. Anal. Lab	2
	+*CHM2210, Organic Chemistry I	3
	CHM2210L, Organic Chemistry I Lab	2
	+*CHM2211, Organic Chemistry II	4
	CHM2211L, Organic Chemistry II Lab	1
Electives		2
TOTAL DEGREE HOURS		**60**

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

TRANSFER TRACK/WOMEN'S STUDIES
(WOM-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for careers in a diversity of fields: law, public policy, communications, academia, business, management, health industry. This track prepares students for the future in the best tradition of the liberal arts by emphasizing critical thinking skills. If a student is interested in pursuing a career in academia through women's studies, foreign language study at Gulf Coast is strongly encouraged.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	3
Literature	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	6
Natural Sciences Area		
Physical Science	See General Education Requirement	3
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	See General Education Requirement	3
History	See General Education Requirement	3
Government	See General Education Requirement	3
Additional Common Prerequisites		
Electives		24
TOTAL DEGREE HOURS		**60**

Recommended electives:
+* PHI2600, Ethics, 3 crs.
   (Meets Area II Humanities requirement for AA)
+* LIT2040, World Drama, 3 crs.
   (Meets Area III Humanities requirement for AA)
+ SPC1608, Intro to Public Speaking, 3 crs.
   DEP2004, Developmental Psychology, 3 crs.

   •EVR1001, Environmental Science, 3 crs.

   •ANT2000, Anthropology, 3 crs.
   EUH1001, Western Civilization, 3 crs.
   WST2010, Intro to Women's Studies, 3 crs.

   •SYG2000, Sociology, 3 crs.
+* LIT2380, Women in Literature, 3 crs.
   (Meets Area III Humanities requirement for A.A.)

•General Education Core. Students must complete at least one identified core course in each area of study—Communications, Humanities, Mathematics, Natural Sciences, and Social Sciences—as part of the general education course requirements.
+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

Workforce Degree Programs

Gulf Coast State College offers a number of specialized programs designed to provide a student with the skills and credentials necessary to enter a specific field of employment.

The college offers instructional programs that are classified in the following manner:

Associate in Science Degree
Applied Technology Diploma
College Credit Certificate
Technical Certificate
Advanced Technical Certificate
Vocational Credit Certificate
Postsecondary Adult Vocational Certificate

Each of these educational pathways is discussed in further detail below.

The Associate in Science Degree

The associate in science degree program is designed to prepare students for a career that requires study beyond the high school level but does not require a four-year degree. Although not designed to transfer to the university, in some cases an associate in science degree may transfer to the university as part of a statewide articulation agreement (see Associate in Science Degrees). However, the intent of these programs is to prepare the graduate to enter the workforce.

The associate in science degree requires that a student meet a minimum level of mathematics proficiency for graduation purposes. This minimum level, if not otherwise stated in the specific degree program, is placement in MAT1033 (Intermediate Algebra). If a student's degree program does not require mathematics, the student must either 1) achieve a score of 72 on the elementary algebra portion of the College Placement Test, 2) achieve a score of 19 on the mathematics portion of the ACT, 3) achieve a score of 440 on the quantitative portion of the SAT, or 4) achieve a grade of C or higher in MAT0024.

All degree programs offered at GCSC require a core of general education courses. The general education component is intended to enhance a student's ability to communicate effectively, appreciate cultural differences, think critically, and collaborate successfully. Student Learning Outcomes for the General Education Core are as follows:

General Education Core Outcomes for Workforce Degree Students

The associate in science requires a minimum of 15 hours of general education courses. The following general education core outcomes reflect a synthesis of what is expected of students completing the associate in science (A.S.) degree.

Communication. Students will be able to:
- Demonstrate control of grammar and the standard rules of written English.
- Write effective essays.
- Demonstrate the ability to access, interpret, and evaluate information **(Information Literacy).**

Cultural Appreciation. Students will be able to:
- Describe the cultural forces affecting the traditions of visual art, theatre, or music.

Critical Thinking. Students will be able to:
- Analyze complex situations, solve problems, and assess actions.

Collaboration. Students will be able to:
- Describe their roles as members of a broader community.
- Demonstrate the ability to work effectively as a group member.

Associate in Science (A.S.) Degrees

The Associate in Science degree consists of a minimum of 60 college-level semester hours with at least 15 semester hours of General Education Core courses. The General Education Core courses are chosen for their appropriateness for each degree and represent courses from each of the following disciplines: humanities/fine arts, natural science/mathematics, behavioral science/social science

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+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

and communications.

Students may pursue the following Associate in Science Degree programs:
- Accounting Technology
- Building Construction Technology
- Business Administration and Management
- Civil Engineering Technology
- Criminal Justice Technology
- Culinary Management
- Dental Hygiene
- Digital Media/Multimedia Technology
- Drafting and Design Technology
- Early Childhood Education
- Emergency Medical Services
- Engineering Technology
- Entrepreneurship
- Fire Science Technology
- Health Science
- Hospitality and Tourism Management
- Legal Assisting/Paralegal
- Network Systems Technology
- Nursing
- Physical Therapist Assistant
- Radiography
- Respiratory Care (Therapy)
- Software and Database Developer
- Sonography, Diagnostic Medical
- Surgical First Assisting
- Theatre and Entertainment Technology

As part of a statewide articulation agreement, the following associate in science degree programs provide students the option to further their education at a Florida university to complete a bachelor of science degree:
- Business Administration and Management
- Nursing

Certificate Programs

Certificate Programs are highly specialized programs that vary in length as indicated by state frameworks and prepare a student for immediate employment in a particular field.

Applied Technology Diploma and College Credit Certificates

These certificate programs consist of coursework that is a portion of a specific Associate in Science degree. Completion of this coursework indicates that a student has acquired specific skills necessary for employment.

Applied Technology Diploma
Emergency Medical Technician
Pharmacy Technician

College Credit Certificates
Accounting Applications
Alternative Energy Systems Specialist
Audio Technology
AutoCAD Foundations Technology
Automation

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

Central Sterile Processing Technology
Chef's Apprentice
CNC Machinist
Crime Scene Technician
Culinary Arts
*Database Development Specialist
Digital Forensics
Digital Manufacturing Specialist
Digital Media/Multimedia Production
Electronics Aide
Endoscopic Technician
Engineering Technology Support Specialist
Entrepreneurship
Entrepreneurship Operations
*Florida Child Care Professional Credential
Green Building Construction Technology
*Logistics and Transportation Specialist
Mechatronics
Multimedia Video Production
Network Infrastructure
Network Security (Cybersecurity)
Network Server Administration
Network Support Technician
*Nuclear Medicine Technology
Paramedic
Pneumatics, Hydraulics, and Motors for Manufacturing
Rapid Prototyping Specialist
Stage Technology
Surgical First Assistant
Surgical Technology Specialist
*Sustainable Design
Web Design and Production

These certificate programs consist of coursework that is not part of an Associate in Science offered at Gulf Coast State College.

Advanced Technical Certificates

These certificate programs are designed for students who currently hold an Associate in Science or Associate in Applied Science degree and are pursuing a specialization in a specific area within their degree.

Advanced Technical Certificates
Cardiovascular Sonography
Massage Therapy

Vocational Credit Certificates

These certificate programs consist of vocational credit course (non-college credit), vary in length, and prepare students for immediate employment. Students pursuing this certification are required to successfully complete the Test of Adult Basic Education (TABE) or the Florida Criminal Justice Basic Abilities Test.

Postsecondary Adult Vocational Certificates
Certified Nursing Assistant
Correctional Officer
Dental Assisting
Electrical Apprenticeship
Firefighting
Law Enforcement Officer

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

Practical Nurse
Private Security Officer

\+ Prerequisites and/or corequisites required. See course descriptions.
\# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

ACCOUNTING APPLICATIONS CERTIFICATE
(ACTC-CT)

AREA OF CONCENTRATION: The purpose of this program is to provide students with an opportunity to enter the accounting field.

Courses		Credit Hours
	•+*ENC1101, English I	3
	+#QMB1001, College Business Math	3
	*ACG2001, Financial Accounting I	3
	#TAX1000, Principles of Taxation I	3
	CGS1570, Microcomputer Applications	3
	+*ACG2011, Financial Accounting II	3
	+CGS2518, Spreadsheets for Business Environments	3
	+ACG2071, Managerial Accounting	3
	+ACG2450, Basic Computer Augmented Accounting	3
TOTAL DEGREE HOURS		**27**

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

ACCOUNTING TECHNOLOGY
(ACT1-AS)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for immediate employment in the field of accounting. Students who graduate from this program would typically work as bookkeepers or accounting technicians.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		3
Visual and Performing Arts	See General Education Requirement	
Philosophy/Religion	See General Education Requirement	
Literature	See General Education Requirement	
Mathematics Area		3
	See General Education Requirement	
Social Sciences Area		
Behavioral Sciences	•PSY2012 or •SYG 2000, Psychology/Sociology	3
Major Courses		
	GEB1011, Introduction to Business	3
	BUL2241, Business Law	
	*ACG2001, Financial Accounting I	3
	+*ACG2011, Financial Accounting II	3
	CGS1570, Microcomputer Applications	
	#MNA1100, Human Relations in Management	3
	MAN2021, Principles of Management	3
	+ACG2071, Managerial Accounting	3
	FIN1100, Personal Finance	3
	#+CGS2518, Spreadsheets for Business Environments	3
	•ECO2013, Principles of Economics, Macro	3
	+ECO2023, Principles of Economics, Micro	3
	#TAX1000, Principles of Taxation I	3
	+ACG2450, Basic Computer Augmented Acct	3
TOTAL DEGREE HOURS		**60**

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

ALTERNATIVE ENERGY SYSTEMS SPECIALIST
COLLEGE CREDIT CERTIFICATE
(AESS-CCC)

AREA OF CONCENTRATION: This certificate program will prepare students to meet the industry-specific skills needed for technicians in the new and emerging alternative and renewable energy fields, including occupational titles such as electrical technician, industrial engineering technician, solar photovoltaic installer and solar power plant technician, solar thermal installer and technician, energy auditor and smart grid technician. This program also provides supplemental training for persons previously or currently employed in occupations related to energy production, distribution, and storage.

Courses		Credit Hours
	#ETP1501, Introduction to Energy, Environment, and Society	3
	#ETP1500, Alternative Energy Inventory & Analysis	3
	#ETP1500L, Alternative Energy Inventory & Analysis Lab	3
	#EPT2322, Distributed Electrical Power Generation and Storage	3
Choose two of the following:		
	#ETP1410C, Solar Energy	3
	+#ETP1520, Geothermal Energy	3
	+#ETP1510, Biofuels and Biomass	3
	#ETP1550, Alternative Fuels and Electric Vehicles	3
	+#BCN2643, Economics of Sustainable Construction	3
TOTAL DEGREE HOURS		18

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

AUDIO TECHNOLOGY COLLEGE CREDIT CERTIFICATE
(ATTC-CCC)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for employment in music recording, audio hardware and software utilization, digital audio production, editing, and mastering. The program also provides supplemental training for persons previously or currently employed in music, entertainment, or related occupations. Graduates of this program can potentially obtain employment as recording technicians/engineers, sound technicians in live or studio positions, audio editors/designers in various music-related fields including broadcast media, motion picture trades, and other multimedia-based areas.

Courses		Credit Hours
Choose 15 hours from the following:		
	+MUM2600, Sound Recording I	3
	+*MUM2600L, Sound Recording I Lab	6
	+MUM2601, Sound Recording II	3
	+MUM2602, Sound Recording III	3
TOTAL DEGREE HOURS		15

AUTOCAD FOUNDATIONS
TECHNOLOGY COLLEGE CREDIT
CERTIFICATE
(ATCD-CCC)

AREA OF CONCENTRATION: The purpose of this program is to provide students with the necessary knowledge and skills to assist architects and engineers in preparing and detailing construction drawings and contract documents. Computer aided drafting techniques using AutoCAD ™ and Civil 3D™ are emphasized.

Courses		Credit Hours
	EGN1110C, Engineering Drawing	3
	+#ETD1320, AutoCAD	3
	#BCT1040, Blueprint Reading for Bldg Trades	3
	ETD2949, Cooperative Ed-Drafting	3
Choose one of the following:		
	+ETD2350, Advanced AutoCAD	3
	+#ETD2357C, AutoDesk Inventor	3
	+#ETD2395, CAD for Architecture	3
TOTAL DEGREE HOURS		15

NOTE: Coursework may be applied to the A.S. degree in the Drafting and Design Technology program.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

AUTOMATION COLLEGE CREDIT CERTIFICATE
(AUT-CCC)

AREA OF CONCENTRATION: This certificate prepares students for engineering technology support positions dealing with PLCs, automation, and control systems in high tech production, manufacturing, distribution, and engineering research and development facilities.

Courses		Credit Hours
	+#ETS2542C, Programmable Logic Controllers	3
	+#ETS2535C, Process Control & Instrumentation	3
	+#EET2214C, LabVIEW Instrumentation	3
	+#EET2280C, Data Acquisition & Controls	3
	+#ETS2606C, Robotics	3
TOTAL DEGREE HOURS		15

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

**BUILDING CONSTRUCTION
TECHNOLOGY (BLC1-AS)**

AREA OF CONCENTRATION: The purpose of this program is to prepare students for careers in the construction industry. The focus of the program is both commercial and residential construction. Students completing the program typically are employed as supervisors, job foremen, or office support staff, performing such duties as purchasing or estimating. Students with previous building experience may seek to obtain either a county or state contractor's license. All graduates can expect to be able to:
- Enter the construction industry and advance toward leadership positions in the construction industry,
- Work on multi-disciplinary teams and effectively communicate with constructors, architects, engineers, the public and public agents, scientists and others to complete construction projects,
- Engage in the life-long learning necessary to advance professionally in the construction field,
- Contribute to society and the construction industry through involvement in professional related and/or other service activity, and
- Conduct their affairs in a highly ethical manner holding paramount the safety, health, and welfare of the public and striving to comply with the principles of sustainable development.

Students may elect to transfer to an upper division school to seek a baccalaureate degree. FAMU offers on our main campus a Bachelor of Science degree in Construction Engineering Technology via a 2+2 partnership with GCSC.

PRIMARY ADVISOR: Antonio Adessi LEED AP, (850) 769-1551, ext. 5887) or e-mail aadessi@gulfcoast.edu.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
Visual and Performing Arts	ARH2060, History of Architecture	3
Mathematics Area		
	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•PSY2012 or •SYG2000, Psychology/Sociology	3
Major Courses		
	EGS1006, Intro to Engineering	1
	BCN1230, Materials and Methods	3
	+#BCN2231, Materials and Methods II	3
	+#ETD1320, AutoCAD	3
	+ETG2502, Statics	3
	+ETG2530, Strength of Materials	3
	#BCT1040, Blueprint Reading	3
	+SUR2101, Surveying and Measurements	3
	SUR2101L, Surveying & Measurements Lab	1
Choose one of the following options:		
University Transfer Option		
	+MAC1140, Pre-calculus Algebra	3
	•+PHY2053, College Physics	3
	+PHY2053L, College Physics Lab	1
	+CHM1040, Fundamentals of Chemistry	3
	+CHM1040L, Fundamentals of Chemistry Lab	1
	+GLY1010, Physical Geology	3
	•ECO2013, Principles of Economics	3
	COP2224, C++ Programming I	3
	Approved Technical Elective	2
Building and Construction Option		

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

	#ETC2450, Concrete Design	3
	#ETC2450L, Concrete Design Lab	1
	#BCT2770, Construction Estimating	3
	#BCT2715, Construction Management	3
	ETC2213, Engineering Properties of Soils	3
	ETC2213L, Eng. Properties of Soils Lab	1
	+CGN2327L, Civil Eng Graphics Lab	1
	+TAR1120, Architectural Drafting	1
	TAR1120L, Architectural Drafting Lab	3
	BUL2241, Business Law	3
Sustainable Design Option	+#ETD2395, CAD for Architecture	3
	#BCN1040, Introduction to Sustainability and Measurement	3
	+BCN1041, Introduction to Sustainable Sites	3
	+BCN1042, Intro to Sustainable Water Systems	3
	+BCN1043, Intro to Sustainable Design Materials and Resources	3
	+BCN1044, Intro to Indoor Environmental Air Quality	3
	+BCN1045, Introduction to Integral Sustainable Design Theory	4
Green Building Option	+#ETD2395, CAD for Architecture	3
	#BCN1040, Introduction to Sustainability and Measurement	3
	+BCN1043, Intro to Sustainable Design Materials and Resources	3
	+BCN2643, Economics of Sustainable Construction	3
	ETP1500L, Alternative Energy Inventory and Analysis Lab	3
	+BCN2046, Sustainable Construction	3
	+BCN2581C, Green Building Delivery Systems and Techniques	3
	Approved Technical Elective	1
Site Development Option		
	#ETC2450, Concrete Design	3
	#ETC2450L, Concrete Design Lab	1
	#BCT2770, Construction Estimating	3
	+BCN1041, Introduction to Sustainable Sites	3
	ETC2213, Engineering Properties of Soils	3
	ETC2213L, Eng. Properties of Soils Lab	1
	+CGN2327L, Civil Eng Graphics Lab	1
	+TAR1120, Architectural Drafting	1
	TAR1120L, Architectural Drafting Lab	3
	Approved Technical Elective	3
TOTAL DEGREE HOURS		60

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

BUSINESS ADMINISTRATION & MANAGEMENT
(BUS2-AS)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for immediate employment in the field of business administration and management by providing training for both first-time job seekers and experienced employees who wish to advance in their careers.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		3
Visual and Performing Arts	See General Education Requirement	
Philosophy/Religion	See General Education Requirement	
Literature	See General Education Requirement	
Mathematics Area		
	•+*STA2023, Statistics	3
Social Sciences Area		
Behavioral Sciences	•PSY2012 or •SYG2000, Psychology/Sociology	3
Major Courses		
	GEB1011, Introduction to Business	3
	+#QMB1001, College Business Math	3
	CGS1570, Microcomputer Applications	3
	#MNA1100, Human Relations in Management	3
	*ACG2001, Financial Accounting I	3
	+*ACG2011, Financial Accounting II	3
	BUL2241, Business Law	3
	•ECO2013 or +2023, Economics Macro, Micro	3
	FIN1100, Personal Finance	3
Choose one of the following options:		
Business Administration Option		
	MAR2011, Marketing	3
	MAN2021, Principles of Management	3
	MAN2043, Principles of Quality Management	3
	#TAX1000, Principles of Taxation I	3
	+ACG2071, Managerial Accounting	3
	+CGS2518, Spreadsheets for Business Environments	3
	Electives	4
Marketing Management Option		
	#MKA2511, Prin. of Advertising	3
	MAR2011, Marketing	3
	+MMC2100, Writing for Mass Communication or SPC1608, Introduction to Public Speaking	3
	MAN2021, Principles of Management	3
	+CGS2069, Internet Marketing	3
	DIG2100, Web Design I	3
	Electives	4

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

Logistics Option		
	MAN2043, Principles of Quality Management	3
	MAN2500, Operations Management	3
	+TRA2010, Transportation and Distribution	3
	+TRA2131, Purchasing and Inventory Management	3
	TRA2154, Introduction to Supply Chain Management	3
	+TRA2230, Warehouse Management	3
	Electives	6
TOTAL DEGREE HOURS		64

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

CARDIOVASCULAR SONOGRAPHY
ADVANCED TECHNICAL CERTIFICATE
(CVS-ATC)

AREA OF CONCENTRATION: The Cardiovascular Sonography program is a 12 credit hour advanced technical certificate that prepares graduate and current sonographers on the imaging techniques for noninvasive vascular and cardiovascular sonographic imaging. These technologists use ultrasonic sound waves to examine the heart chambers, valves, and vessels and create images called echocardiograms as well as evaluate pulses and assess blood flow in arteries and veins by listening to the vascular flow sounds for abnormalities, blood pressure, oxygen saturation, cerebral circulation, peripheral circulation, and abdominal circulation. Topics and scanning skills will be applied in the campus lab as well as in a clinical environment.

Courses		Credit Hours
	+SON 2176C, Advanced Vascular Sonography	4
	+SON 2400C, Echocardiography I	4
	+SON 2401C, Echocardiography II	4
TOTAL DEGREE HOURS		12

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CENTRAL STERILE PROCESSING TECHNOLOGIST
COLLEGE CREDIT CERTIFICATE
(CSPT-CCC)

AREA OF CONCENTRATION: The purpose of this two-semester, 30 credit program is to educate students in the specialty of Central Sterile Processing Technology and promote knowledge based critical thinking in the safe practice of Central Sterile Processing Technology. Upon completion of all graduation requirements, graduates of this program will receive a *College Credit Certificate as a Central Sterile Processing Technologist*. Successful completion of the program will allow graduates to apply to take the national certifying examination provided all the eligibility requirements currently established are met.

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences containing a current listing of admission and course requirements.

Courses	*All courses must be completed with a "C" or better.*	Credit Hours
	#*HSC1000, Orientation to Perioperative Services	3
	#*HSC1000L, Orientation to Perioperative Services Lab	1
	#*HSC2520, Microbiology for Perioperative Services	3
	+*STS1300, Surgical Anatomy and Physiology	5
	+*HSC1434, Central Processing Technology	6
	+*HSC1434L, Central Processing Tech Lab/Clinical	6
	+*STS1925, Endoscopy Basics	3
	+*STS1925L, Endoscopy Basics Lab	1
	+*STS2361, Professional Skills for the OR Team	1
	+*STS2365, The Art of Teamwork in Surgery	1
TOTAL DEGREE HOURS		30

APPLICATION PROCESS:
A. Apply for admission to Gulf Coast State College.
B. Take the placement test as required in the Central Sterile Processing Technologist selection package.
C. Submit the Central Sterile Processing Technologist program application forms.
D. Submit official high school or GED transcripts to the Office of Enrollment Services.
E. Submit official transcripts from all previous colleges to the Office of Enrollment Services for evaluation.
F. Have two reference forms mailed to the program director. (Forms are located in the application packet)
G. Complete transcript analysis with course instructor.

Minimum Requirements for Admission Program: Listed below are the specific requirements for admission to this program. It should be understood, however, that **only** the minimum requirements are given and that admission to this program is a selective process. The satisfaction of minimum requirements does not automatically guarantee admission. When space is limited, preference may be given to students within the community college's assigned district.
1. Complete the application process satisfactorily as outlined in the selection package including requirements specified by the clinical site.
2. Satisfactory fingerprint/criminal background check prior to entering the clinical site.
3. Completion of Physical Examination with satisfactory results.
4. Submission of completed documentation of immunization status prior to entering the clinical site.
5. Copy of current Certification in CPR by the American Heart Association or Red Cross Health Care Provider based on the International Liaison Committee on Resuscitation.
6. Drug Screen or other requirements as outlined by the clinical sites.

Fall:
    STS1300, Surgical anatomy and Physiology, 5 crs.
    HSC1000, Orientation to Perioperative Services, 3 crs.
    HSC1000L, Orientation to Perioperative Services Lab, 1 cr.
    HSC2520, Microbiology for Perioperative Services, 3 crs.
    STS2361, The Art of Teamwork in Surgery, 1 cr.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

Spring:
    HSC1434, Central Processing Technology, 6 crs.
    HSC1434L, Central Processing Tech Lab/Clinical, 6 crs.
    STS1925, Endoscopy Basics, 3 crs.
    STS1925L, Endoscopy Basics Lab, 1 cr.
    STS2365, Professional Skills for the OR Team, 1 cr.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CERTIFIED NURSING ASSISTANT
(CNA-VC)

AREA OF CONCENTRATION: This certificate program is designed to provide the education and skill level necessary to qualify for the state Certified Nursing Assistant exam. The two courses for this training (165 clock hours) are available only at the Gulf Franklin Center in Port St. Joe, Florida. The core lecture classes are offered as hybrid (distance education).

The Certified Nursing Assistant program is a selective admission, limited enrollment program. Admission to Gulf Coast State College does not imply acceptance into the Certified Nursing Assistant program.

Admission Requirements:
- Apply to Gulf Coast State College.
- Provide high school and college transcripts.
- Submit an application to the CNA program at the Gulf Franklin campus.
- Submit active, satisfactory scores on the TABE examination or equivalent CPT scores. TABE tests are given at the GFC and the main campus sites.

After Conditional Acceptance:
- Satisfactory fingerprint/criminal background check.
- Copy of current Certification in CPR for Health Care Providers.
- Completion of physical examination (with satisfactory results), including copy of immunization form.

Courses		Credit Hours
	*=HCP0001, Health Careers Core	3v
	*=HCP0120C, Basic Nursing Care	2.5v
TOTAL DEGREE HOURS		5.5v

After completion of the CNA program, students have options of applying for admittance, and if accepted, carrying forward credit from the two CNA courses into the Practical Nurse Certificate (PN) program.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CHEF'S APPRENTICE
(CAPP-CCC)

AREA OF CONCENTRATION: 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 Hospitality and Tourism 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 Hospitality and Tourism career cluster. The content includes but is not limited to sanitation and safety; maintenance and operation of equipment; recognition and identification of foods; proper storage of foods; methods of preparation; usage of foods; methods of cooking; communication skills; math skills; computer applications; professionalism; culinary organization; and food and beverage purchasing.

Courses		Credit Hours
	#FOS2201, Food Service Sanitation and Safety	2
	+#FSS1202C, Basic Food Preparation	4
	+#FSS1063C, Food Specialties: Baking	3
	+#FSS2240L, Food Specialties: Cuisines of the World	3
TOTAL DEGREE HOURS		12

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CIVIL ENGINEERING TECHNOLOGY (CIV2-AS)

AREA OF CONCENTRATION: The Civil Engineering Technology program provides students with the skills and knowledge required to enter the field of civil engineering as a technologist or a technician. The focus of this program is in the areas of structural analysis, site development and surveying. Primary emphasis is placed on structural design and analysis of steel, concrete and timber structures with certification by the American Concrete Institute (ACI) as a Concrete Field Testing Technician – Grade I. In addition, students use topographic surveying equipment and global positioning system (GPS) satellite receivers to define property boundaries, highway rights of way, parking lots, retention ponds, residential developments and elevations. Further emphasis is placed on site investigation, soil foundation design, soil properties, stress, settlement, compaction, and stabilization of soils. Students also become proficient in computer aided design with AutoCAD™.

Communications Area		**Credit Hours**
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		3
Visual and Performing Arts	See General Education Requirement	
Philosophy/Religion	See General Education Requirement	
Literature	See General Education Requirement	
Mathematics Area	•+*MAC1105, College Algebra	3
Social Sciences Area		
Behavioral Sciences	•PSY2012 or •SYG2000, Psychology/Sociology	3
Major Courses		
	EGS1001, Intro. to Engineering	1
	+*MAC1114, Plane Trigonometry	3
	EGN1110C, Engineering Drawing	3
	BCN1230, Materials and Methods	3
	#BCN1040, Intro to Sustainability and Measuring Systems	3
	+#ETD1320, AutoCAD	3
	+BCN2405, Statics and Strength of Materials	3
	+#BCN1041, Introduction to Sustainable Sites	3
	+#BCT1040, Blueprint Reading	3
	BCT2770, Constructing Estimating	
General Option		
	+*MAC1140, Pre-Calculus Algebra	3
	•+PHY2053, College Physics	3
	PHY2053L, College Physics Lab	1
	+CHM1040, Fundamentals of Chemistry	3
	#ETI1411, Manufacturing Processes I	3
	#ETI1420, Manufacturing Processes II	3
Site Development Option		
	#ETC2450, Concrete Design	3
	#ETC2450L, Concrete Design Lab	1
	+SUR2101, Surveying and Measurements	3
	+SUR2101L, Surveying and Measurements Lab	1
	ETC2213, Engineering Properties of Soils	3
	ETC2213L, Engineering Properties of Soils Lab	1
	+CGN2327L, Civil Engineering Graphics Lab	1
	+ETD2395, CAD for Architecture	3
	TAR1120, Architectural Drafting	1
	TAR1120L, Architectural Drafting Lab	3
TOTAL DEGREE HOURS		63

+ Prerequisites and/or corequisites required. See course descriptions.
\# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CNC MACHINIST
COLLEGE CREDIT CERTIFICATE
(CNC-CCC)

AREA OF CONCENTRATION: The CNC machinist certificate reflects the culmination of those learned skills and proficiencies that allow a student to set-up and operate CNC machinery and turning centers at the entry level. The core courses provide training on a MAAS Mill, a Haas Lathe, and on machine shop operations. Complete the requirements for this certificate to get a head start in the field as a CNC machinist. There are many employment opportunities in the local and regional area in this field of study.

Courses		Credit Hours
	+#PMT2213C, Advanced Machining I	3
	+#PMT2214C, Advanced Machining II	3
	+#PMT2250C, CNC Programming I	3
	+#PMT2254C, CNC Programming II	3
TOTAL CERTIFICATE HOURS		**12**

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CRIMINAL JUSTICE TRAINING ACADEMY
**CORRECTIONAL OFFICER CERTIFICATION - VOCATIONAL
CERTIFICATE   (CORO-VC)**

AREA OF CONCENTRATION: The purpose of this program is to prepare students for employment as correctional officers. The program includes basic standards courses mandated for certification as a correctional officer in the state of Florida. Students who graduate from this program would typically work as correctional officers within a county or state correctional facility. Upon completion of this program, students are eligible to take the State Officer Certification Examination for correctional officers. (NOTE: Must be 19 years of age by date of employment).

PROGRAM ADMISSIONS REQUIREMENTS

This is a restricted entry program based upon special admission requirements established by the Florida Department of Law Enforcement, the Criminal Justice Training Academy, and the Department of Education. Uniforms are required in this structured program. Class size is limited. Students should obtain an academy application package from the Criminal Justice Training Academy or online from the Division of Public Safety tab on the college website well in advance of program start date. Admission requirements include the following:

- Citizen of the United States.
- High School diploma or GED (transcript required).
- Not discharged from Armed Forces under dishonorable conditions.
- Good moral character and NOT have been convicted of a felony or any misdemeanor involving lying or perjury.
- Physical examination by licensed physician, nurse practitioner or physician's assistant attesting capability of performing essential functions of the officer position.
- Submit to and pass background investigation.
- Passing score on Florida Basic Abilities Test.

All courses in this program must be completed for certificate. A grade of 80% or higher is required to pass each course. Academy classes have specific attendance policies that may differ from the general GCSC attendance policy. For specifics, contact the program manager or refer to the academy recruit manual.

**ALL OF THE FOLLOWING COURSES ARE REQUIRED FOR
CERTIFICATION**

Courses		**Credit Hours**
	=CJD0939, Correctional Officer Capstone	0.5v
	=CJK0031C, CMS First Aid for Criminal Justice Officers	1.3v
	=CJK0040C, CMS Firearms	2.7v
	=CJK0051C, CMS Defensive Tactics	2.7v
	=CJK0300, Introduction to Corrections	1.0v
	=CJK0305, Communications	1.3v
	=CJK0310, Officer Safety	0.5v
	=CJK0315, Facility and Equipment	0.3v
	=CJK0320, Intake and Release	0.6v
	=CJK0325, Supervising in a Correctional Facility	1.3v
	=CJK0330, Supervising Special Populations	0.7v
	=CJK0335, Responding to Incidents and Emergencies	0.5v
	=CJK0340, Officer Wellness and Physical Abilities	1.0
TOTAL DEGREE HOURS		14.4v

After completing the correctional officer certification training and passing the State Officer Examination certification, students may continue their education by completing the Associate of Science degree in Criminal Justice Technology.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CRIMINAL JUSTICE TRAINING ACADEMY
CRIME SCENE TECHNICIAN
COLLEGE CREDIT CERTIFICATE
 (CST-CCC)

AREA OF CONCENTRATION: The purpose of this program is to prepare individuals to work as an entry level crime scene technician. Students would typically find employment in a local, county, or state law enforcement agency.

PROGRAM ADMISSIONS REQUIREMENTS

This is a restricted entry program based upon special requirements needed to work for a Law Enforcement Agency.

- Citizen of United States.
- High school diploma or GED (transcript required).
- Not discharged from Armed Forces under dishonorable conditions.
- Good moral character and NOT have been convicted of a felony, or any misdemeanor   involving lying or perjury.
- Submit to and pass background investigation to include a fingerprint check.

All courses must be satisfactorily completed to receive the certificate.

ALL OF THE FOLLOWING COURSES ARE REQUIRED FOR CERTIFICATION

Courses		Credit Hours
	#CJE1640, Intro to Crime Scene Tech	3
	+#CJE1643, Advanced Crime Scene Tech	3
	#CJE1770, Crime Scene Photography I	3
	+#CJE1772, Crime Scene Photography II	3
	#CJE2644, Crime Scene Safety	2
	#CJL2610, Courtroom Presentation of Scientific Evidence	3
	#CJE2640, Intro to Forensic Science	3
	#CJE2672, Fingerprint Classification	3
	+#CJE2671, Latent Fingerprint Development	3
	#CJE2676, Biological Evidence	2
TOTAL DEGREE HOURS		**28**

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CRIMINAL JUSTICE TRAINING ACADEMY
CRIMINAL JUSTICE TECHNOLOGY - A.S. DEGREE (CJST-AS)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for employment and advancement as practitioners in law enforcement and corrections. This program awards credit for successful completion of Florida Basic Standards and for passing the State Officer Certification Examination. Students who graduate from this program would typically work as municipal, county or state law enforcement officers, or county or state correctional officers. The Basic Standards programs have particular admissions and graduation requirements that are explained on their specific pages. (NOTE: Must be 19 years of age by date of employment).

ADMISSIONS REQUIREMENTS
Admission requirements include the following:
- Citizen of United States.
- High School diploma or GED (transcript required).
- Not discharged from Armed Forces under dishonorable conditions.
- Good moral character and NOT have been convicted of a felony, or any misdemeanor involving lying or perjury.
- Submit to and pass background investigation.

Communications Area	•+*ENC1101, English I	3
	+*ENC1102, English II or +*ENC2210, Technical Writing	3
Humanities Area		3
Visual and Performing Arts	See General Education Requirement	
Philosophy/Religion	See General Education Requirement	
Literature	See General Education Requirement	
Mathematics Area	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•PSY2012 or •SYG2000, Psychology/Sociology	3
Government	•POS2041, American National Government	3
Major Courses		
COBS and LEBS refer to State of Florida Correctional and Law Enforcement Officer certification training programs. SOCE refers to the State Officer Certification Examination related to those programs. All other training programs will be evaluated by designated advisor on an individual basis.	Law Enforcement Basic Standards (LEBS) (with passing SOCE) (15 hrs.) **or** Correctional Officer Basic Standards (COBS) (with passing SOCE) (12 crs.) **or** Crime Scene Technology Certificate (28 hrs.)	1
	Computer Usage Elective	3
	CCJ1010, Introduction to Criminology	3
	CCJ1020, Introduction to Criminal Justice	3
	+SPC1608, Introduction to Public Speaking	3
	MAN2021, Principles of Management	3
+LEBS with passing SOCE elective hours (12) +COBS with passing SOCE elective hours (15) Other students without LEBS, COBS, or Crime Scene Technology certificate elective hours (27)	Electives: CCJ1191, #CJC1000, CJC2162, #CJE1000, #CJE1300, #CJE1500, +#CJE1640, #CJE1642, #CJE1770, +#CJE1772, #CJE2400, #CJE2600, #CJE2640, #CJE2644, +#CJE2671, #CJE2672, +#CJE2676, #CJJ1001, CJJ2002, CJL2100, CJL2130, #CJL2610, or other electives as approved by advisor	
Law Enforcement Total Core Hours		30
Corrections Total Core Hours		27
Crime Scene Total Core Hours		43
Other Students Total Core Hours		15
ELECTIVES		
TOTAL PROGRAM CREDIT HOURS		**60**
+Crime Scene Certificate elective hours		0
TOTAL PROGRAM CREDIT HOURS for Crime Scene		**61**

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CRIMINAL JUSTICE TRAINING ACADEMY
LAW ENFORCEMENT OFFICER CERTIFICATION
VOCATIONAL CERTIFICATE (LEOF-VC)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for employment as a law enforcement officer. This program includes courses mandated for law enforcement certification with the state of Florida. Students who graduate from this program would typically work as municipal, county, or state law enforcement officers. Courses within this program can also be used toward certification as a law enforcement officer. (NOTE: Must be 19 years of age by date of employment).

ADMISSIONS REQUIREMENTS

Admission requirements include the following:
- Citizen of United States.
- High School diploma or GED (transcript required).
- Not discharged from Armed Forces under dishonorable conditions.
- Good moral character and NOT have been convicted of a felony, or any misdemeanor involving lying or perjury.
- Physical examination by licensed physician, nurse practitioner or physician's assistant attesting capability of performing essential functions of the officer position.
- Submit to and pass background investigation.
- Passing score on Florida Basic Abilities Test.

All courses in this program must be completed for certificate. A grade of 80% or higher is required to pass each course. Academy classes have specific attendance policies that may differ from the general GCSC attendance policy. For specifics, contact the program manager or the academy recruit manual.

Courses		Credit Hours
	+=CJK0001, Intro to Law Enforcement	0.3v
	+=CJK0012, Legal	2.1v
	+=CJK0013, Interactions in a Diverse Community	1.3v
	+=CJK0014, Interviewing and Report Writing	1.9v
	+=CJK0020C, CMS L.E. Vehicle Operations	1.6v
	+=CJK0031C, CMS First Aid for Crim. Just. Officers	1.3v
	=CJK0040C, CMS Criminal Justice Firearms	2.7v
	+=CJK0051C, CMS Crim. Just. Defensive Tactics	2.7v
	+=CJK0064, Fundamentals of Patrol	1.1v
	+=CJK0065, Calls for Service	1.2v
	+=CJK0077, Criminal Investigations	1.7v
	+=CJK0078, Crime Scene to Courtroom	1.1v
	+=CJK0084, DUI Traffic Stops	0.8v
	+=CJK0087, Traffic Stops	1.0v
	+=CJK0088, Traffic Crash Investigations	1.1v
	+=CJK0092, Critical Incidents	1.5v
	+=CJK0096, Crim. Just. Off. Physical Fitness	2.0v
	+=CJK0422, Dart-Firing Stun Gun	0.3v
TOTAL DEGREE HOURS		**25.7v**

CULINARY ARTS
(CLNA-CCC)

AREA OF CONCENTRATION: 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 Hospitality and Tourism 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 Hospitality and Tourism career cluster. This program prepares students for employment in commercial and institutional positions such as bakers, pantry cooks, prep cooks, and lead cooks in the culinary industry and/or provides supplemental training for persons previously or currently employed in these occupations.

Courses		Credit Hours
	#FOS2201, Food Service Sanitation and Safety	2
	#HUN1001, Survey of Nutrition	2
	+#FSS1202C, Basic Food Preparation	4
	+#FSS1063C, Food Specialties -Baking	3
	+#FSS2065L, Food Specialties -Pastry	3
	#FSS1105, Food Purchasing	3
	+#FSS2380, Practicum I - Restaurant	3
	+#FSS2381, Practicum II - Kitchen	3
	+#FSS 1248L, Food Spec.-Garde Manger I	3
	+#FSS2240L, Food Spec -World Cuisines	3
	+#HFT2264C, Banquet & Convention Management	3
	#FSS1002, Introduction to Hospitality	3
TOTAL DEGREE HOURS		35

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CULINARY MANAGEMENT
(CLNY-AS)

AREA OF CONCENTRATION: This program seeks candidates who are individually motivated and committed to a career in the food service profession. This program is accredited by the American Culinary Federation Education Foundation Accrediting Commission (ACFEFAC).

RETENTION REQUIREMENTS

A.   A student must maintain a grade of "C" in each of the culinary courses in order to continue in the program. An overall "C" average is required for program completion.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		6
Visual and Performing Arts	See General Education Requirement	
Philosophy/Religion	See General Education Requirement	
Literature	See General Education Requirement	
Natural Sciences Area		3
	See General Education Requirement	
Social Sciences Area		
Behavioral Sciences	•PSY2012 or •SYG2000, Psychology/Sociology	3
Major Courses		
	#FOS2201, Food Service Sanitation and Safety	2
	+#FSS1202C, Basic Food Preparation	4
	+#FSS1063C, Food Specialties -Baking	3
	#FSS1002, Introduction to Hospitality or GEB1011 , Introduction to Business or Approved Elective	3
	+#HFT2840C, Dining Room Operations	3
	+#FSS2224L, Advanced Food Preparation	3
	#FSS1105, Food Purchasing	3
	+#FSS2380, Practicum I - Restaurant	3
	+# FSS2381, Practicum II - Kitchen	3
	+# FSS1942, Culinary Externship	1
	# HUN1001, Survey of Nutrition	2
	+# FSS 1248L, Food Spec.-Garde Manger I	3
	+# FSS2240L, Food Spec -World Cuisines	3
	+# HFT2264C, Banquet & Convention Mgmt	3
	+# FSS2382L, Practical Exam	1
	+# FSS2065L, Food Spec. -Pastry	3
	# HFT1860, Beverage Mgmt	3
	+# QMB1001, College Bus. Math	3
TOTAL DEGREE HOURS		64

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

DATABASE DEVELOPMENT SPECIALIST CERTIFICATE
(ORACLE CERTIFIED DATABASE DEVELOPER)
(DDS-CCC)

AREA OF CONCENTRATION: This certificate focuses on the design, development, maintenance, management, and administration of comprehensive relational databases. Graduates may seek positions as database developers, database programmers, database administrators, and database consultants. The Oracle courses in the Software and Database Design A.S. degree also provide a foundation for persons preparing for the Oracle Certified Professional exams.

Courses		Credit Hours
	COP 1002, Intro to Programming Logic	3
	COP 2700, Data Structure (SQL)	3
	CTS 2440, Oracle SQL and PL/SQL	3
	CTS 2441, Oracle Database Administration	3
	CTS 2445, Advanced Oracle PL/SQL Programming	3
TOTAL DEGREE HOURS		15

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

DENTAL ASSISTING CERTIFICATE
(DAAP-VC/DEAS-VC)

AREA OF CONCENTRATION: The purpose of this limited access, selective admissions program is to provide students with the educational background and clinical competencies necessary in the field of dental assisting. The program is accredited by the Commission on Dental Accreditation (CODA) of the American Dental Association. After successful completion of the program, graduates are eligible to take the Dental Assisting National Board Examination (DANB) for certification. The program can be completed in as little as 10 months.

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences or the Internet web page containing a _current_ listing of admission guidelines and course requirements.

ADMISSIONS:

The Dental Assisting program is a limited access program beginning in the fall semester. A selective admissions policy with specific selection criteria is utilized in order to select the most qualified applicants. The strength of the applicant pool varies year-to-year, with the best qualified applicants receiving first consideration. It is the applicant's responsibility to inquire about these specific admission and selection criteria and to ensure that all required documents are received on campus prior to the published deadline **in the current application packet**.

Provisional Admission Requirements:

A.   Application to Gulf Coast State College.
B.   Current TABE or CPT/PERT scores. (successful completion required for graduation). Demonstrated 10th grade competency level in Reading, Language, and Math satisfied by current placement test scores or successful completion ("C" or higher) in equivalent college-level courses.
C.   Official high school transcript or GED and all official college transcript(s) sent to Enrollment Services for evaluation.
D.   Completed program application including:
      1. Dental Assisting application.
      2. Technical Standards form.
      3. Placement Test Requirement Form.
      4. Additional documentation is applicable (as specified in the application packet).

Requirements after Provisional Acceptance

A.   Report of Vaccination History to include:
•   Hepatitis B Surface Antigen test.
•   Hepatitis B vaccine series, if surface antigen is positive (or signed declination waiver).
•   PPD Mantoux/TB Test annually (may require chest radiograph if previously positive PPD Mantoux/TB test).
•   MMR. (Measles, Mumps, Rubella)
•   Varicella (Chickenpox).
•   Tetanus-Diphtheria (Tetanus every 10 years).
B.   Copy of current Cardiopulmonary Resuscitation (CPR) certificate BLS for Healthcare Provider
C.   Satisfactory fingerprint/criminal background check.
D.   Health Sciences Orientation (every 2 years).
•   HIPAA Training.
•   HIV/AIDS Training.
•   Prevention of Medical Errors.
•   Domestic Violence Training.
•   Infection Control Training.
E.   Satisfactory physical examination (singed by physician).
F.   Satisfactory drug screening results

Readmission Guidelines
1)   A student who withdraws from or earns a grade lower than a "C" in a Dental Assisting course will not be permitted to continue in the Dental Assisting Program. A student who does not meet the Technical Standards of the program will not be permitted to continue in the program.
2)   Applicants who wish to apply for readmission should do so prior to March 15 (if planning to enroll in the Fall semester) or October 1 (if planning to

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

enroll in the Spring semester).

3) A student who applies for readmission to the Dental Assisting program must provide significant evidence which suggests the potential for future success in the program. This evidence may address such things as unusual circumstances, remedial study, and/or additional preparation.

4) Readmission to the Dental Assisting program will be dependent upon available resources.

5) In order to be considered for readmission by the Admissions Committee, the applicant must do the following:

a. Submit a written request (not e-mail) to the Dental Programs Coordinator presenting evidence to justify readmission. This may include letters of recommendation from a previous faculty member or coordinator, additional course work, work experience, etc.

b. Meet current guidelines for admission to the College and Dental Assisting Program.

6) Readmission may be contingent upon the candidate's agreeing to audit previously completed course work.

Transfer Policy

Applicants who wish to transfer from another Dental Hygiene/Dental Assisting Program to a GCSC Dental Program must: 1) meet all current admission requirements, 2) apply at least two months prior to the expected date of enrollment, 3) notify the Assistant Coordinator in writing, stating anticipated entry date and reason for transfer, 4) provide evidence of successful completion of previous core dental courses from an American Dental Association accredited program, and 5) provide a letter from the program chair stating that the student is in good academic standing and clinical standing and is eligible to return to the Dental Assisting program they wish to transfer from. Acceptance of any transfer student will be dependent upon available resources.

Articulation Policy

Students who elect to articulate must have completed said courses with a grade of "C" or better from an American Dental Association accredited Dental Assisting Program within the last three years *and* have actively been working in the dental field at least 3 months prior to entrance in the program. If you feel you meet articulation requirements, please contact the Dental Programs Coordinator for more information.

Courses		Credit Hours
	+#=*DEA0020C, Pre-Clinical Procedures	6v
	+#=*DEA0132, Dental Nutrition	1v
	+#=*DEA0133, Introduction to Microbiology	1v
	+#=*DEA0134, Introductory Pharmacology/Dental Office Emergencies	2v
	+#=*DEA0800L, Clinical Practice I	1.5v
	+#=*DEA0801, Clinical Practice II	2v
	+#=*DEA0801L, Clinical Practice II Lab	6v
	+#=*DEA0850L, Clinical Practice III	6.5v
	+#*DEH1400, Oral Pathology	2
	+#=*DES0501, Dental Practice Management	1v
	+#=*DES0844, Dental Health Education	1v
	+#*DES1000, Dental Anatomy	2
	+#*DES1010, Head and Neck Anatomy	2
	+#*DES1100C, Dental Materials	3
	+#*DES1200, Dental Radiology I	2
	+#*DES1200L, Dental Radiology I Lab	1
	+#*DES1201, Dental Radiology II	1
	+#*DES1201L, Dental Radiology II Lab	1
	+#*DES1320, Basic Comm. and Human Relations	1
	+#*DES1404, Introductory Anatomy and Physiology	2
	+#*DES1832, Expanded Functions	1
	+#* DES1832L, Expanded Functions Lab	1
TOTAL CREDIT HOURS		19
TOTAL VOCATIONAL HOURS		28
TOTAL CERTIFICATE HOURS		47

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

DENTAL HYGIENE
(DHAP-AS/DENH-AS)

AREA OF CONCENTRATION: The dental hygiene program is a limited access, selective admissions program designed to assist students in developing and mastering basic clinical competencies and theoretical concepts of dental hygiene practice. Graduates will receive an A.S. degree in Dental Hygiene and will be eligible to apply for the national and state board examinations in any state. The dental hygiene program is accredited by the American Dental Association Commission on Dental Accreditation. Students are encouraged to complete as many of the general education courses as possible prior to seeking admission into the program. Because of limited enrollment, students are encouraged to prepare application requirements in the fall for the next year's class.

Primary advisors: Kim Guilford, 850-747-3422, Miranda Stewart (850)769-1551, ext. 5802.

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences or Internet web page containing a _current_ listing of admission guidelines and course requirements.

ADMISSIONS:
The Dental Hygiene program is a limited access program. A selective admissions policy with specific selection criteria is utilized in order to select the most qualified applicants. The strength of the applicant pool varies year-to-year, with the highest qualified applicants receiving first consideration. It is the applicant's responsibility to inquire about these specific admission and selection criteria and to ensure that all required documents are received on campus prior to the deadline published in the application packet.

Provisional Admission Requirements:

A.   Application to Gulf Coast State College.
B.   Official high school transcript or GED <u>and</u> all official college transcript(s) sent to Enrollment Services for evaluation.
C.   Demonstration of Math/Algebra, English and Reading Competency via current (within 2 years) CPT/PERT scores <u>or</u> ACT/SAT equivalent. Approved college-level courses in Math/Algebra, English, and Reading may also satisfy competency requirements.
D.   Application to Dental Hygiene program, including:
    1.   Dental Hygiene Application.
    2.   Technical Standards Form.
    3.   Work/Observation Form.
    4.   Additional documentation if applicable (as specified in the Application Packet).

Requirements After Provisional Acceptance:
A.   Completion of prerequisite courses with a grade of "C" or better prior to First year Fall – Term 2.
    1.   BSC2085, Anatomy & Physiology I
    2.   BSC2085L, Anatomy & Physiology I Lab
    3.   ENC1101, English Comp I
    4.   HUN1201, Principles of Nutrition
B.   Report of Vaccination History to include:
•   Hepatitis B Surface Antigen test.
•   Hepatitis B vaccine series, if surface antigen is positive (or signed declination waiver).
•   PPD Mantoux/TB Test annually (may require chest radiograph if previously positive PPD Mantoux/TB test).
•   MMR. (Measles, Mumps, Rubella)
•   Varicella (Chickenpox).
•   Tetanus-Diphtheria (Tetanus every 10 years).
C.   Copy of current Cardiopulmonary Resuscitation (CPR) certificate (BLS for Healthcare Providers)
D.   HIV Saliva Test may be required in preparation for external clinical rotations.
E.   Satisfactory fingerprint/criminal background check.
F.   Health Sciences Orientation (every 2 years).

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

- HIPAA Training.
- HIV/AIDS Training.
- Prevention of Medical Errors.
- Domestic Violence Training.
- Infection Control Training.

G. Satisfactory physical examination (signed by physician).

H. Satisfactory drug screening results.

Readmission Guidelines

1. A student who withdraws from or earns a grade lower than a "C" in one of the approved science courses and/or in a Dental Hygiene course will not be permitted to continue in the Dental Hygiene Program. A student who does not meet the Technical Standards of the program will not be permitted to continue in the program.

2. Applicants who wish to apply for readmission should do so prior to March 1 if planning to enroll in the Fall semester or October 1 if planning to enroll in the Spring semester.

3. Readmission to the Dental Hygiene Program will be dependent upon available resources.

4. In order to be considered for readmission by the Admissions Committee, the applicant must do the following:

  a. Submit a written request letter (not e-mail) to the Dental Programs Coordinator presenting evidence to justify readmission. This may include letters of recommendation from a previous faculty member or coordinator, additional course work, work experience, etc.

  b. Meet current guidelines for admission to the College and the Dental Hygiene Program.

5. Readmission may be contingent upon the candidate's agreeing to audit previously completed course work.

6. A student who applies for readmission to the Dental Hygiene Program must provide significant evidence which suggests the potential for future success in the program. This evidence may address such things as unusual circumstances, remedial study, and/or additional preparation.

Dental Programs Transfer Policy

Applicants who wish to transfer from another Dental Hygiene/Dental Assisting Program to a GCSC Dental Program must 1) meet all current admission requirements, 2) apply at least two months prior to the expected date of enrollment, 3) notify the Assistant Coordinator in writing, stating anticipated entry date and reason for transfer, 4) provide evidence of successful completion of previous core dental courses from an American Dental Association accredited program, and 5) provide a letter from the program chair stating that the student is in good academic and clinical standing and is eligible to return to the Dental Hygiene program they wish to transfer from. Acceptance of any transfer student will be dependent upon available resources.

Dental Programs Articulation Policy

Students who elect to articulate must have completed said courses with a grade of "C" or better from an American Dental Association accredited Dental Assisting Program within the last three years *and* have actively been working in the dental field at least 3 months prior to entrance in the program.   If you feel you meet articulation requirements, please contact the Dental Programs Coordinator for more information.

Communications Area		**Credit Hours**
	•+*ENC1101, English I	3
Humanities Area		3
Visual and Performing Arts	See General Education Requirement	
Philosophy/Religion	See General Education Requirement	
Literature	See General Education Requirement	
Mathematics Area		3
	See General Education Requirement	
Natural Sciences Area		
Biological Science	•+*BSC2085, Anatomy and Physiology I	3

+ Prerequisites and/or corequisites required. See course descriptions.

Applies to A.S. degree and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

Social Sciences Area		3
Behavioral Sciences	●*PSY2012, Psychology	3
Major Courses	●*SYG2000, Sociology	3
	+*BSC2085L, Anatomy and Physiology I Lab	1
	+*BSC2086, Anatomy and Physiology II	3
	+*BSC2086L, Anatomy and Physiology II Lab	1
	+*MCB2004, Microbiology	3
	+*MCB2004L, Microbiology Lab	1
MAJOR COURSES		
	*HUN1201, Principles of Nutrition	3
	+*SPC1608, Introduction to Public Speaking	3
	+*#DES1000, Dental Anatomy	2
	+*#DES1010, Head and Neck Anatomy	2
	+*#DES1100C, Dental Materials	3
	+*#DES1200, Dental Radiology I	2
	+*#DES1200L, Dental Radiology I Lab	1
	+*#DES1201, Dental Radiology II	1
	+*#DES1201L, Dental Radiology II Lab	1
	+*#DES1832, Expanded Functions	1
	+*#DES1832L, Expanded Functions Lab	1
	+*#DEH1002, Fundamentals of Dental Hygiene	3
	+*#DEH1002L, Dental Hygiene Pre-Clinical Procedures	3
	+*#DEH1130, Oral Histology and Embryology	2
	+*#DEH1400, Oral Pathology	2
	+*#DEH1800, Dental Hygiene I	2
	+*#DEH1800L, Dental Hygiene Clinical I	5
	+*#DEH1802C, Dental Hygiene Clinical II	3
	*#DEH2300, Pharmacology for the Dental Hygienist	2
	+*#DEH2602, Periodontology	2
	+*#DEH2702, Community Dental Health	2
	+*#DEH2702L, Community Dental Health Lab	1
	+*#DEH2804, Dental Hygiene III	2
	+*#DEH2804L, Dental Hygiene Clinical III	5
	+*#DEH2806, Dental Hygiene IV	2
	+*#DEH2806L, Dental Hygiene Clinical IV	5
TOTAL DEGREE HOURS		88

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

DIGITAL FORENSICS
COLLEGE CREDIT CERTIFICATE
(NFOR-CCC)

The Digital Forensics certificate prepares students for careers in the Information Technology and Public Safety Career Clusters as digital forensic investigators, technicians/analysts; information assurance/compliance specialists, and data recovery technicians.

Program Admissions Requirements: This is a restricted program based upon special requirements needed to work for a Law Enforcement Agency including: Citizen of the United States; high school diploma or GED (transcript required); Not discharged from the Armed Forces under dishonorable conditions; Good moral character and NOT have been convicted of a felony, or any misdemeanor involving lying or perjury; submit to and pass a background investigation to include a fingerprint check.

Courses		Credit Hours
	+#CAP2141, Data Forensics II Advanced	3
	+CIS2381, Computer Forensics & Incident Response	3
	#CJE1640, Intro to Crime Scene Technology	3
	+#CJE1643, Advanced Crime Scene Technology	3
	#CJL2610, Courtroom Presentation of Scientific Evidence	3
	#CJE2640, Intro to Forensic Science	3
	#CTS1111, Linux+	3
	+CTS1120, Security+	3
	#CTS1131, A+ Hardware	3
	*CTS1133, Desktop Operating Systems (A+ Software)	3
TOTAL DEGREE HOURS		30

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

DIGITAL MANUFACTURING SPECIALIST
COLLEGE CREDIT CERTIFICATE
(DIGS-CCC)

AREA OF CONCENTRATION: This certificate prepares students for initial employment with an occupational title as rapid prototyping, digital manufacturing specialists, industrial designers, product designers, architectural, civil, or mechanical drafters, technicians, or detailers in various specialized areas of industry that use digital design and modeling and rapid prototyping, direct digital manufacturing and CNC machining technologies, or to provide supplemental training for persons previously or currently employed in these occupations.

Courses		Credit Hours
	+#ETD2357C, AutoDesk Inventor	3
	#ETD2364C, Introduction to Solidworks	3
	+#ETD2368C, Advanced Solidworks	3
	+#ETD2369C, Solidworks Advanced Applications	3
	+#PMT2250C, CNC Programming I	3
	+#PMT2254C, CNC Programming II	3
	#ETI1420, Manufacturing Proc. II	3
	+#PMT2214, Advanced Machining II	3
TOTAL DEGREE HOURS		24

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

DIGITAL MEDIA/MULTIMEDIA PRODUCTION
COLLEGE CREDIT CERTIFICATE
(DIG-CCC)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for initial employment as a digital media/multimedia production technician, digital media/multimedia developer, or to provide supplemental training for persons previously or currently employed in these or related occupations. Graduates of this certificate program could potentially obtain entry positions as graphic artist technician, animation/gaming/simulation technician, digital video production technician, or Web design technician. All courses in this program can be used in pursuit of the college's Digital Media Associate of Science degree.

COMBINATION of FIVE CLASSES		Credit Hours
Graphic Design Technology		3
	GRA1100C, Principles of Graphic Design	3
	+GRA2121, Desktop Publishing	3
	GRA2151, Drawing Techniques for Digital Illustration	3
	GRA2156, Computer Graphics for Digital Designers I	3
	+GRA 2157, Computer Graphics for Digital Designers II	3
Animation Gaming and Simulation		3
	DIG1710, Intro to Game Development	3
	+DIG2040, Survey of Game Development	3
	+DIG2430, Storyboarding & Conceptualizing for Game Development	3
	DIG2300, 2D Animation	3
	+DIG2302, 3D Modeling and Animation	3
Digital Video Production		
	+DIG2205, Basic Video Editing	3
	DIG2251, Digital Audio I or DIG2200, Basic Video	3
	DIG2252, Digital Audio II or DIG2203, Advanced Digital Video	3
	+DIG2410, Basic Scripting for Video	3
Web Design		
	DIG2100, Web Design I	3
	+DIG2101, Web Design II	3
TOTAL DEGREE HOURS		15

Important Notes: It is strongly recommended that you have classes from at least two of the areas above. Each candidate for graduation of this program must submit a digital portfolio. Specific criteria for the portfolio are available from the program advisor.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

**DIGITAL MEDIA/MULTIMEDIA
TECHNOLOGY
 (DIG2-AS)**

AREA OF CONCENTRATION: The purpose of this program is to prepare students for initial employment as a digital media/multimedia programmer, digital media/multimedia project manager, web designer, web developer, web production artist, digital audio/video technician, digital media/multimedia producer, graphic animator, instructional designer, or interface designer, or to provide supplemental training for persons previously or currently employed in these or related occupations. Graduates of this program could potentially obtain positions as graphic artist technicians, animation/gaming/simulation technicians/developers, digital video production technicians, or web design technicians.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		
Visual and Performing Arts	•ARH2000, Understanding Visual Art or	3
	•MUL2010, Understanding Music	
Mathematics Area		3
	See General Education Requirement	
Natural Sciences Area		
	*See General Education Requirement	3
Social Sciences Area		
	*See General Education Requirement	3
Major Courses		
	DIG2300, 2D Animation	3
	DIG2100, Web Design I	3
	+DIG2101, Web Design II	3
	CGS1570, Microcomputer Applications	3
	GRA2156, Comp Graphics for Digital Designers I	3
	+GRA2157, Comp Graphics for Digital Designers II	3
	+DIG2200, Basic Video	3
	DIG2251, Digital Audio I	3
	MMC2100, Writing for Mass Communications	3
	CGS2069, Internet Marketing	3
	DIG2949, Digital Media COOP Education	3
	+DIG2580, Digital Media Portfolio	4
ELECTIVES—Select 12 Credits from the following courses		
Digital Design Technology		
	GRA1100C, Principles of Graphic Design	3
	+GRA2121, Desktop Publishing	3
	GRA2151, Drawing Techniques for Digital Illustration	3
	ART1201C, Design I	3
	PGY2801C, Digital Photography I	3
Animation Gaming and Simulation		
	DIG1710, Introduction to Game Development	3
	+DIG2430, Storyboarding and Conceptualizing	3
	+DIG2040, Survey of Game Development	3
	+CAP2050, Computer Game Programming	3
	+DIG2302, 3D Modeling and Animation I	3
	+DIG2303, 3D Modeling and Animation II	3

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

Digital Audio/Video Production		
	DIG2000, Introduction to Digital Media	3
	DIG2252, Digital Audio II	3
	+DIG2257, Radio Production Sound Recording	3
	+#DIG2143, Streaming Media	3
	+DIG2205, Basic Video Editing	3
	DIG2203, Advanced Digital Video	3
	+#DIG2290, Studio Production and Direction	3
	+DIG2410, Basic Scripting for Video	3
Web Design/Mobile Application Programming		
	+COP2657, Intro to SmartPhone Programming	3
	COP2700, Data Structures (SQL)	3
	+COP2840, Internet Programming	3
	+COP2842, Developing Websites Using PHP w/MySQL	3
Bachelor's Degree Track		
	+COP1000, Introduction to Programming Logic	3
	COP2700, Data Structure (SQL)	3
	CGS1103, Project Management Concepts and Processes	3
TOTAL DEGREE HOURS		64

Please refer to the degree plan outlined below to determine what classes are typically offered in the fall and spring. This degree plan reflects a student attending classes full-time, however, it is possible to earn this degree while attending GCSC on a part-time basis.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

DRAFTING AND DESIGN TECHNOLOGY
(DRAR-AS)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for careers as drafters/designers in either architecture or industrial mechanical occupations. The program features the use of both board drawing and computer assisted drafting featuring the latest release of AutoCAD. All advanced design classes use the computer to produce the designs and working drawings. The primary goal of the program is to prepare students for employment after graduation, but many students elect to transfer to schools of architecture or engineering technology after completing the general education requirements of an A.A. degree.

Specialization Tracts:

Product Design: The purpose of this program is to prepare students for initial employment with an occupational title as Product Designer, Rapid Prototyping, Digital Manufacturing specialists, industrial designers, product designers, mechanical drafters, technicians, or detailers in various specialized areas of industry that use digital design and modeling and rapid prototyping, and direct digital or to provide supplemental training for persons previously or currently employed in these occupations. The program provides a strong background in market analysis and the patent process. The students will design a product ready to market, including business plan, marketing and prototyping. Design it, make it!

Architecture: The purpose of this program is to prepare students for initial employment with an occupational title as home designers, architectural, or civil drafters, technicians, or detailers in various specialized areas of industry that use digital design and modeling, or to provide supplemental training for persons previously or currently employed in these occupations. The program provides a strong background in construction technologies and design processes. The students will design residential and commercial projects and learn the most advanced drafting techniques. Design your dreams!

PRIMARY ADVISOR: Antonio Adessi LEED AP, (850) 769-1551, ext. 5887) or e-mail aadessi@gulfcoast.edu.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English Composition II	3
Humanities Area		
Visual and Performing Arts	+ARH2060, History of Architecture	3
Mathematics Area		
	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•PSY2012, Psychology or •SYG2000, Sociology	3
Major Courses		
	EGN1110C, Engineering Drawing	3
	+#ETD1320, Auto CAD	3
	+ETD2350, Advanced AutoCAD	3
	ETD2949, Drafting COOP	3
Product Design Option		
	+#ETI2001C, Applied Mechanics	3
	+#ETD2357C, Auto Desk Inventor	3
	#ETI1411, Manufacturing Proc. I	3
	#ETI1420, Manufacturing Proc. II	3
	#ETD2364C, Introduction to Solidworks	3
	+#ETD2368C, Advanced Solidworks	3
	ENT2000, Introduction to Entrepreneurship	3
	MAR2011, Marketing Principles	3
	BUL2241, Business Law	3
	+#IDD2101C, Product Design	3
	+#IDD2107C, Advanced Product Design	3
	Elective	2

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

Architecture Option		
	+*MAC1114, Plane Trigonometry	3
	+BCN2405, Statics and Strength of Materials	3
	+#ARC1301C, Design 1.1	4
	+#ARC1302C, Design 1.2	4
	+TAR1120, Architectural Drafting	1
	+TAR1120L, Architectural Drafting Lab	3
	+#TAR2122, Residential Design	1
	+#TAR2122L, Residential Design Lab	3
	+TAR2154, Commercial Architecture	1
	+TAR2154L, Commercial Design Lab	3
	BCN1230, Materials and Methods	3
	+#ETD2395, CAD for Architecture	3
	#BCN1040, Intro to Sustainability and Measuring Systems	3
TOTAL DEGREE HOURS		62

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

EARLY CHILDHOOD EDUCATION
(EEC-AS)

Area of Concentration: The purpose of this program is to prepare students for employment as child development center teachers, early intervention associates, child development center curriculum coordinators, infant/toddler teachers, preschool teachers, providers of care in school age programs, providers of care for children with disabling conditions, family day care providers, home visitors, child development center managers, or to provide supplementary training for persons previously or currently employed in these occupations.

The content includes but is not limited to growth and development; early childhood education; establishing and maintaining a safe, clean, healthy, learning environment; guidance techniques and classroom management; communication; identification of child abuse and neglect; implementation of rules and regulations; nutrition; family interaction; legal and professional responsibilities; and employability skills. Programs prepare individuals to assume major caregiving and educational and/or managerial responsibilities in programs for infants, toddlers, and children.

All Early Childhood Education students should be aware that the State of Florida requires a thorough background check by the Florida Department of Law Enforcement prior to the student entering the classroom for observations. The college requires the submission of written verification of approved and completed background checks before students may complete on-site course requirements. Students completing observations in school systems must go to the district in which they will complete their observations and comply with the requirements of that system. The students will be required to pay a fee for the cost of the background check.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		
Visual and Performing Arts	See General Education Requirement	3
Philosophy/Religion	See General Education Requirement	
Mathematics Area		
	See General Education Requirement	3
Social Sciences Area		
History	EUH1000/EUH1001 Western Civilization I/II	3
Major Courses		
	+#EEC1732, Infants, Toddlers, & Caregivers	3
	+EEC2240, Social Studies & Creative Expression for Young Children	3
	+#EEC2223, Art, Music, & Movement for Young Children	3
	+EEC2602, Guiding the Young Child	3
	+EEC2713, Facilitating Social Development	4
	+#EEC1319, Portfolio Development & Supervised Work Experience	4
	EEC1701, Child Development	4
	+EEC1272, Practices for Working with Young Children with Special Needs in Inclusive Settings	3
	+#EEC2523, Leadership & Management of Child Care Programs	3
	+#EEC2734, Health, Safety, and Nutrition for Young Children	3
	DEP2004, Developmental Psychology	3
	EDF1005, Intro to the Teaching Profession	3
	EDF2085, Intro to Diversity for Educators	3
	EME2040, Intro to Technology for Educators	3
	Electives	3
TOTAL DEGREE HOURS		63

Recommended electives: SPC1608, CLP1001, SYG2000

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

ELECTRICAL APPRENTICESHIP
 (APRL-VC)

AREA OF CONCENTRATION: The purpose of this program is to prepare individuals to become journeymen electricians.

Courses		Credit Hours
	=BCA0350, Electrical Apprenticeship 1	3v
	=BCA0358, Electrical Internship 1	21v
	=BCA0351, Electrical Apprenticeship 2	3v
	=BCA0359, Electrical Internship 2	21v
	=BCA0360, Electrical Internship Summer 1	18v
	=BCA0352, Electrical Apprenticeship 3	3v
	=BCA0361, Electrical Internship 3	21v
	=BCA0353, Electrical Apprenticeship 4	3v
	=BCA0362, Electrical Internship 4	21v
	=BCA0363, Electrical Internship Summer 2	18v
	=BCA0354, Electrical Apprenticeship 5	3v
	=BCA0364, Electrical Internship 5	21v
	=BCA0355, Electrical Apprenticeship 6	3v
	=BCA0365, Electrical Internship 6	21v
	=BCA0366, Electrical Internship Summer 3	18v
	=BCA0356, Electrical Apprenticeship 7	3v
	=BCA0367, Electrical Internship 7	21v
	=BCA0357, Electrical Apprenticeship 8	3v
	=BCA0368, Electrical Internship 8	21v
	=BCA0369, Electrical Internship Summer 4	18v
	=BCA0340, Electrical Apprenticeship 9	3v
	=BCA0345, Electrical Internship 9	21v
	=BCA0341, Electrical Apprenticeship 10	3v
	=BCA0346, Electrical Internship 10	21v
	=BCA0347, Electrical Internship Summer 5	18v
TOTAL DEGREE HOURS		330 v

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

ELECTRONICS AIDE
COLLEGE CREDIT CERTIFICATE
(EAID-CCC)

AREA OF CONCENTRATION: The purpose of this certificate program is to prepare students for initial employment with an occupational title as electronics or electronics test technician in various specialized areas or to provide supplemental training for persons previously or currently employed in these occupations.

Courses		Credit Hours
	+#EET1035C, AC/DC Circuits	4
	+#CET1112C, Digital and Computer Circuits	4
	+#EET1140C, Electronic Devices and Circuits	4
TOTAL DEGREE HOURS		12

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

EMERGENCY MEDICAL SERVICES

AREA OF CONCENTRATION: Upon completion of the program, all graduates will have demonstrated the necessary knowledge, technical skill, and professional attitude and behavior to implement safe, effective and appropriate care in their roles as entry-level Emergency Medical Technician-Basics (EMT-B) or Paramedics.

INTRODUCTION: The Emergency Medical Services program is accredited by the Committee on Accreditation of Educational Programs for EMS Professionals (COAEMSP) and by the Florida Department of Health. Graduates of either the emergency medical technician (EMT) or paramedic portions of the program are eligible to apply for the state and/or the national board examinations.

The Emergency Medical Technician (EMT):

This is the beginning level in the emergency medical services (EMS) career ladder. EMTs are trained in basic life support measures including patient assessment, cardiopulmonary resuscitation (CPR), automated external defibrillation (AED), oxygen therapy, shock prevention, bandaging, splinting, spinal immobilization, and vehicle extrication. The EMT course can be completed in one semester. Application deadlines are June 1 for the fall EMT class and November 1 for the spring EMT class. Application deadlines are March 1 for the summer EMT class, June 1 for the fall EMT class, and November 1 for the spring EMT class.

The Paramedic:

This is the higher level of the EMS career ladder. Paramedics are licensed EMTs who are then trained in advanced life support measures including venipuncture, intravenous therapy, endotracheal intubation, medication administration, arrhythmia interpretation, cardioversion, and defibrillation. The Paramedic course is a three-semester program. The Paramedic course is offered once a year beginning with the fall semester and concluding after the first summer term. Application deadline is June 1.

Application process for EMT and Paramedic Program:
A. Complete application to Gulf Coast State College
B. Submit high school transcripts or GED to the Enrollment Services.
C. Submit all previous college transcripts for evaluation as required by Enrollment Services.
D. Students must be eighteen years of age or older.
E. Submit completed EMS program application to the Health Sciences Division.
F. Submit acceptable Computerized Placement Test (CPT) scores. Students may contact the Testing Office for dates, times, and locations of placement test.
G. Signed statement indicating freedom from:

    1. Addiction to alcohol or any narcotic or controlled substance.
    2. Any physical or mental defect or disease that might impair the ability to function as an EMT.
H. Proof of valid Florida driver's license.

Requirements for EMT and Paramedic after conditional acceptance:
1. Satisfactory fingerprint / criminal background check.
2. Copy of current certification in CPR for Health Care Providers.
3. Completion of physical examination (with satisfactory results), including copy of immunization form.
4. Purchase uniform and specific equipment.

Additional Requirements for Paramedic Applicants
A. Applicants must hold a current Florida EMT license or be eligible for the Florida licensure examination by virtue of holding current National Registry certification or current EMT certification from another state. Within 45 days of entering the first semester of the Paramedic program, students holding EMT certification from another state must score a minimum of 80 percent on the Florida EMT board examination.
B. Florida certified EMTs must have completed the state board examination with a minimum score of 80 percent. Students failing to achieve an 80 percent on the state board examination may challenge the GCSC EMT program final examination and score a minimum of 80 percent.
C. Applicants must have maintained a minimum grade of "B" in the EMT training program. Students failing to achieve this average may challenge the GCSC EMT program final examination and score a minimum of 80 percent.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

D. Proof of current American Heart Association Health Care Provider Basic Life Support certification or American Red Cross CPR for the Professional Rescuer.
E. Three letters of recommendation.
F. Interview with program coordinator and/or medical director.
    A. A minimum grade of "C" is required in all coursework.

Student Selection Process: The requirements listed above are minimum requirements; however, satisfaction of minimum requirements does not automatically guarantee admission. Admission to the program is a selective process. Paramedic program applicants with six months or more of emergency medical experience are given preference for selection. The Admissions Committee will review and notify students

Curriculum: The EMT program may be completed by certificate. The Paramedic program may be completed by either certificate or Associate in Science degree in Emergency Medical Services.

EMERGENCY MEDICAL TECHNICIAN
APPLIED TECHNOLOGY DIPLOMA (EMT-ATD)

The EMT program is a selective admission, limited enrollment program. Admission to Gulf Coast State College does not imply acceptance into the EMT program.

The core curriculum consists of a combination of lecture, clinical, and skill laboratory hours.

Courses		Credit Hours
	+*#EMS1119, Emergency Medical Tech	5
	+*#EMS1335, Emergency Vehicle Operator	1
	+*#EMS1401, Emergency Medical Tech. Lab	4
	+*#EMS1555, Trauma Management	1
TOTAL DEGREE HOURS		11

PARAMEDIC CERTIFICATE (PARM-CT)

The Paramedic program is a selective admission, limited enrollment program. Admission to Gulf Coast State College does not imply acceptance into the Paramedic program.

The core curriculum consists of a combination of lecture, clinical, and skill laboratory hours.

Courses		Credit Hours
	+*#HSC1531, Medical Terminology	2
	+*#RET1934, Advanced Cardiac Life Support	1
	+*#EMS2010, Essentials of Human Structure and Function	3
	+*#EMS2231, Paramedic I	5
	+*#EMS2232, Paramedic II	5
	+*#EMS2233, Paramedic III	1
	+*#EMS2340C, Basic Vehicle Rescue and Extrication	1
	+*#EMS2425, Paramedic Internship	4
	+*#EMS2435, Paramedic I Lab	5
	+*#EMS2436, Paramedic II Lab	5
	+*#EMS2439, Advanced Clinical Internship	5
	+*#EMS2526, Twelve-Lead Electrocardiogram (EKG) Interpretation	1
	+*#EMS2553, Pediatric Advanced Life Support	1
	+*#EMS2558, Stroke Management	1
	+*#EMS2931, Emergency Response to Terrorism	1
	+*#EMS2934, Advanced Medical Life Support	1
TOTAL DEGREE HOURS		42

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

EMERGENCY MEDICAL SERVICES (EMSA-AS/EMS-AS)

Students interested in completing the Associate of Science degree in Emergency Medical Services must complete all of the coursework for the EMT and Paramedic programs in addition to the following 18 hours of general education courses and NUR 1142, Introduction to Pharmacology.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		3
Visual and Performing Arts	*See General Education Requirement	
Philosophy/Religion	*See General Education Requirement	
Literature	*See General Education Requirement	
Mathematics Area		3
	See General Education Requirement	
Natural Sciences Area		3
Biological Science	See General Education Requirement	
Social Sciences Area		
Behavioral Sciences	•PSY2012, Psychology	3
Additional Course		
	+#NUR1142, Introduction to Pharmacology	2
Major Courses		
	SYG 2000, Sociology	
	+*#EMS1119, Emergency Medical Tech	5
	+*#EMS1335, Emergency Vehicle Operator	1
	+*#EMS1401, Emergency Medical Tech Lab	4
	+*#EMS1555, Trauma Management	1
	+*#EMS2010, Essentials of Human Structure and Function	3
	+*#EMS2231, Paramedic I	5
	+*#EMS2232, Paramedic II	5
	+*#EMS2233, Paramedic III	1
	+*#EMS2340C, Basic Vehicle Rescue and Extrication	1
	+*#EMS2425, Paramedic Internship	4
	+*#EMS2435, Paramedic I Lab	5
	+*#EMS2436, Paramedic II Lab	5
	+*#EMS2526, Twelve Lead EKG Intrep	1
	+*#EMS2553, Pediatric Advanced Life Support	1
	+*#EMS2558, Stroke Management	1
	+*#EMS2931, Selected Topics: Emergency Response to Terrorism	1
	+*#EMS2934, Advanced Medical Life Support	1

	+*#EMS2439, Advanced Clinical Internship
	    or +*#EMS1310, EMS Management and
	    +*#EMS1761, Assistant Teaching in EMS
		5

	+*#HSC1531, Medical Terminology	2
	+*#RET1934, Advanced Cardiac Life Support	1
TOTAL DEGREE HOURS		73

Refresher Courses	+EMS1381C, Emergency Medical Technician Refresher	2
	+EMS2391C, Paramedic Refresher	3

Both Refresher courses are offered by Distance Education as well as in the classroom.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

ENDOSCOPIC TECHNICIAN CERTIFICATE
COLLEGE CREDIT CERTIFICATE
(ENDO-CT)

AREA OF CONCENTRATION: The purpose of this program is to educate students in the specialty of endoscopy and promote knowledge based critical thinking in the safe practice of flexible and rigid endoscopy. Upon completion of all core graduation requirements, graduates of this program will receive a Certificate as an Endoscopy Technician. Students may choose to complete the requirements for certification as an associate with the Society of Gastroenterology Nurses and Associates, Inc. (SGNA).

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences containing a current listing of admission and course requirements.

Courses		Credit Hours
	*#HSC1000, Orientation to Perioperative Services	3
	*#HSC1000L, Orientation to Perioperative Srvs. Lab	1
	*#HSC2520, Microbiology for Perioperative Services	3
	*#STS1300, Surgical Anatomy & Physiology	5
	*#STS1925, Endoscopy Basics	3
	*#STS1925L, Endoscopy Basics Lab	1
	*#STS1926, Endoscopy Technician Theory	3
	*#STS1926L, Endoscopy Technician Lab & Clinical	3
	*#STS2361, The Art of Teamwork in Surgery	1
	*#STS2365, Professional Skills for the OR Team	1
TOTAL DEGREE HOURS		24

APPLICATION PROCESS:
A. Apply for admission to Gulf Coast State College.
B. Take the placement test as required in the Central Sterile Processing Technologist selection package.
C. Submit the Endoscopic Technician program application forms.
D. Submit official high school or GED transcripts to the Office of Enrollment Services.
E. Submit official transcripts from all previous colleges to the Office of Enrollment Services for evaluation.
F. Have two reference forms mailed to the program director.
G. Complete transcript analysis with course instructor (Course Substitutions).

Minimum Requirements for Admission: Listed below are the specific requirements for admission to this program. It should be understood, however, that **only** the minimum requirements are given and that admission to this program is a selective process. The satisfaction of minimum requirements does not automatically guarantee admission. When space is limited, preference may be given to students within the community college's assigned district.
1. Complete the application process satisfactorily as outlined in the selection package.
1. Satisfactory fingerprint/criminal background check.
2. Completion of Physical Examination with satisfactory results.
3. Submission of completed documentation of immunization status as required for clinical entry.
4. Copy of current Certification in Healthcare Provider Basic CPR by the American Heart Association or Red Cross Health Care Provider.
5. Drug Screen or other requirements as outlined by the clinical sites.
6. Proof of high school graduation or equivalent filed in the Office of Enrollment Services prior to Graduation from the program. [Note: Students may begin the program while working on their GED or completing graduation requirements.]
7. Submit proof of age – 18 years or older on or before the clinical start date for the applied class year.

NOTE: Proof of background screening, immunization status, and physical examination are waived for those students currently employed at the same clinical site. Proof of employment may be substituted.

GCSC Articulation: Up to 12 of the college credits in classroom and lab skills experience may be granted by validated current proof of completion of the prerequisites for the surgical technology, surgical first assistant program, certification as a nursing assistant, emergency medical technician, or licensure as a practical nurse. The remaining 6 core courses representing 12 college credits must be

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

successfully completed for the Certificate as an Endoscopy Technician. See the program advisor to develop an education plan that fits your experience and education needs.

Graduation and Retention Requirements: For the Endoscopic Technician Program, students must earn a grade of "C" or higher in each course. See student handbook for further information regarding graduation, retention, dismissal, readmission, and transfer credit policies.

Recommended Certificate Plan: Please refer to the certificate plan to determine what classes are typically offered each term. This represents a student plan of approximately 2 semesters. For students interested in an Associate's degree, see the catalog description for the Associate's in Health Sciences degree plan.

Fall I:
STS1300, Surgical Anatomy & Physiology, 5 crs.
HSC1000, Orientation to Perioperative Services, 3 crs.
HSC1000L, Orientation to Perioperative Services Lab, 1 cr.
HSC2520, Microbiology for Perioperative Services, 3 crs.
STS2361, The Art of Teamwork in Surgery, 1 cr.

Spring II 1:
STS1925, Endoscopy Basics, 3 crs.
STS1925L, Endoscopy Basics Lab, 1 cr.
STS1926, Endoscopy Technician Theory, 3 crs.
STS1926L, Endoscopy Technician Lab & Clinical, 3 crs.
STS2365, Professional Skills for the OR Team, 1 cr.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

ENGINEERING TECHNOLOGY
(ENGT-AS)

AREA OF CONCENTRATION: The purpose of the Engineering Technology A.S. program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction with one common core and four specializations: alternative energies, automation and advanced manufacturing, electronics, and digital manufacturing. It is recommended that students complete the core before advancing to the courses in their specialization. Topics include communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.

The 18 credit hour technical core has also been aligned with the standards of the Manufacturing Skills Standards Council (MSSC). MSSC standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing the technical core and General Education requirements, students will be eligible to take the exam for MSSC Production Technician Certification. Graduates of the Engineering Technology Program can transfer to universities offering the B.S. degree in Engineering Technology.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English Composition II	3
Humanities Area		3
Visual and Performing Arts	*See General Education Requirement	
Philosophy/Religion	*See General Education Requirement	
Literature	*See General Education Requirement	
Mathematics Area		
	•+*MAC1105, College Algebra	3
Social Sciences Area		
Behavioral Sciences	•PSY2012 or •SYG2000, Psychology/Sociology	3
Major Courses		
	#EET1084C, Introduction to Electronics	3
	+#ETD1320, AutoCAD	3
	#ETI1701, Industrial Safety	3
	#ETI2110, Intro to Quality Assurance	3
	#ETI1411, Manufacturing Processes I	3
	#ETI2001C, Applied Mechanics	3
Choose one of the following options:		
	Alternative Energy Option (27 hrs.) The purpose of this track is to prepare students to meet industry-specific educational needs for technicians in new and emerging alternative and renewable energy fields, including, but not limited to, occupational titles such as Electrical Engineering Technician, Industrial Engineering Technician, Solar Photovoltaic Installer and Solar Power Plant Technician, Solar Thermal Installer and Technician, Energy Auditor, and Smart Grid Technician. This program also provides supplemental training for persons previously or currently employed in occupations related to energy production and storage, manufacturing and construction.	
	#ETP1501, Intro to Energy, Environment, and Society	3
	#ETP1500, Alt Energy Inventory & Analysis	3
	#ETP1500L, Alt Energy Inventory & Analysis Lab	3
	#ETP2322, Distributed Electrical Power Storage	3
	+#ETP1410C, Solar Energy	3
	+#ETP1520, Geothermal Energy	3
	+#ETP1510, Biofuels and Biomass	3
	+#ETP1550, Alternative Fuels and Electric Vehicles	3

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

	Choose one of the following: +#BCN2643, Economics of Sustainable Construction +#ETS2511C, Motor & Motion Control +#ETS2542C, Programmable Logic Controllers #EET2214C, LabVIEW Instrumentation	3
	Automation & Advanced Manufacturing Option (27 hrs.) This track specializes in automation, robotics, and process control with emphasis on computer-controlled systems for industrial manufacturing, system integration, instrumentation, simulation, and animatronics. The program skills used for careers in manufacturing, theme park industries, military applications, water filtration and purification plants, and much more. Graduates are prepared to work as controls engineers, system integrators, robotic technicians, industrial programmers, process control engineers, field service technicians, simulation technicians, industrial sales engineers, and industrial maintenance technicians.	
	+#EET1035C, AC/DC Circuits	4
	+#CET1112C, Digital Circuits	4
	+#ETS1112C, Industrial Electronics	4
	+#ETS2542C, Programmable Logic Controllers	3
	+#ETS2535C, Process Control & Instrumentation	3
	+#ETS2700C, Electro-Hydraulics & Pneumatics	3
	Choose <u>two</u> of the following: +#EET2280C, Data Acquisition & Control Systems +ETS2606C, Robotics #EET2214C, LabVIEW Instrumentation +#ETS2511C, Motors & Motion Control	6
	Digital Manufacturing Option (27 hrs.) The purpose of this track is to prepare students for initial employment as a Rapid Prototyping specialist, Digital Manufacturing specialist, industrial designer, product designer, architectural, civil, or mechanical drafter, technician, or detailers in various specialized areas of industry that use digital design and modeling and rapid prototyping, direct digital manufacturing and CNC machining technologies, or to provide supplemental training for persons previously or currently employed in these occupations.	
	#+ETD2357C, Auto Desk Inventor	3
	+#ETD2350, Advanced AutoCAD	3
	#ETD2364C, Intro to Solidworks	3
	+#ETD2368C, Advanced Solidworks	3
	+#ETD2369C, Solidworks Advanced Applications	3
	+#PMT2250C, CNC Programming I	3
	+#PMT2254C, CNC Programming II	3
	#ETI1420, Manufacturing Proc. II	3
	+#PMT2214C, Advanced Machining II	3
	Electronics Option (27 hrs.) The purpose of this track is to prepare students to enter the workforce as highly skilled electronic technicians or to continue their education at several state universities. The curriculum balances instruction in theory with hands-on laboratory applications and provides the student with a diversified background in circuit theory, digital systems, microcomputers, programmable logic controllers, analog systems, and LabVIEW programming. Graduates of this program will be prepared for careers in electronic maintenance and troubleshooting, electronics product	

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

	development, data acquisition and testing, software development for microcontroller systems, computer installation and repair, telecommunications, biomedical equipment repair and calibration, avionics, radio and television communications, and security systems.	
	+#EET1035C, AC/DC Circuits	4
	+#CET1112C, Digital Circuits	4
	+#EET1140C, Electronic Devices & Circuits	4
	#EET2214C, LabVIEW Instrumentation	3
	+#EET2280C, Data Acquisition & Control Systems	3
	Choose <u>three</u> of the following: +#CET2123C, Microprocessor Fundamentals +#EET2355C, Digital Communications +#ETS2542C, Programmable Logic Controllers #+ETS2535C, Process Control & Instrumentation #+ETS2606C, Robotics +CTS1120, Computer & Network Security	9
TOTAL DEGREE HOURS		60

ENGINEERING TECHNOLOGY SUPPORT SPECIALIST
COLLEGE CREDIT CERTIFICATE
(ETSS-CCC)

AREA OF CONCENTRATION: This certificate prepares students for entry level technical jobs in high tech production, manufacturing, distribution and engineering research and development facilities. [It is aligned with the MSSC (Manufacturing Skill Standards Council) Certified Production Technician (CPT) certification.]

Courses		Credit Hours
	+#EET1084C, Introduction to Electronics	3
	+#ETD1320, AutoCad	3
	#ETI1701, Industrial Safety	3
	+#ETI2110, Introduction to Quality Assurance	3
	#ETI1411, Manufacturing Processes I	3
	+#ETI2001C, Applied Mechanics	3
TOTAL DEGREE HOURS		18

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

ENTREPRENEURSHIP
(ENT-AS)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for immediate employment in the field of business administration and management by providing training for both first-time job seekers and experienced employees who wish to advance in their careers.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		3
Visual and Performing Arts	*See General Education Requirement	
Philosophy/Religion	*See General Education Requirement	
Literature	*See General Education Requirement	
Mathematics Area		3
	•+* STA2023, Statistics	
Social Sciences Area		
Behavioral Sciences	•ECO2013, Economics, Macro	3
Major Courses		
	ENT2000, Introduction to Entrepreneurship	3
	ENT2430, Funding Acquisition and Legal Issues	3
	ENT2411, Small Business Accounting and Finance	3
	ENT2112, Business Plans	3
	ENT2172, Opportunity Analysis and Franchising	3
	SMB2000, Small Business Management	3
	#MNA1100, Human Relations in Management	3
	MAR2011, Marketing	3
	GEB1011, Introduction to Business	3
	+#QMB1001, College Business Math	3
	CGS1570, Microcomputer Applications	3
	*ACG2001, Principles of Financial Accounting I	3
	+*ACG2011, Principles of Financial Accounting II	3
	+ECO2023, Economics, Micro	3
	Cooperative Education or Electives	3
TOTAL DEGREE HOURS		60

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

ENTREPRENEURSHIP COLLEGE CREDIT CERTIFICATE
(ENT2-CCC)

AREA OF CONCENTRATION: The purpose of this program is to teach students the fundamentals of starting and operating a business venture while presenting entrepreneurship as a viable career option. Coursework covers opportunity recognition, business planning, cash flow and financial management, market research, e-commerce and how to understand and work with an accounting system.

Courses		Credit Hours
	ENT2000, Introduction to Entrepreneurship	3
	ENT2411, Small Business Accounting and Finance	3
	ENT2112, Business Plans or ENT2430, Funding Acquisition and Legal Issues	3
	+MAR2011, Marketing	3
TOTAL DEGREE HOURS		12

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

ENTREPRENEURSHIP OPERATIONS
(ETOP-CCC)

AREA OF CONCENTRATION: The purpose of this program is to provide students with in-depth, hands on knowledge, in the areas of business planning, managing the small business, and analysis of business or franchise potential.   Specific strategies for selling the businesses product or service are also covered.

Courses		Credit Hours
	ENT2000, Introduction to Entrepreneurship	3
	ENT2430, Funding Acquisition and Legal Issues	3
	ENT2411, Small Business Accounting and Finance	3
	MAR2011, Marketing	3
	ENT2112, Business Plans	3
	ENT2172, Opportunity Analysis and Franchising	3
	SMB2000, Small Business Management	3
	CGS1570, Microcomputer Applications or MNA1100, Human Relations in Management	3
TOTAL DEGREE HOURS		24

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

FIRE SCIENCE TECHNOLOGY
(FIRE-AS)

AREA OF CONCENTRATION: The purpose of this program is to prepare graduates for advancement in the fire service. Completion of the company officer courses leads to Fire Officer Certification; completion of the inspection courses leads to Fire Inspector Certification.

Communications Area	•+*ENC1101, English I	3
	+*ENC1102, English II or [3]+ENC2210, Technical Writing	3
Humanities Area	*See General Education Requirement	3
Mathematics Area/Natural Sciences Area	*See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	PSY2012 or SYG2000, Psychology/Sociology	3
Additional Course	+#NUR1142, Introduction to Pharmacology	2
Major Courses	+SPC1608, Intro. to Public Speaking	3
	[3]#CET1460, Comp. Applications for Tech. or [3]#CGS1570, Microcomputer Application	3
	#MNA1100, Human Rel. in Management or GEB1011, Introduction to Business	3
	[3]#FFP1610, Fire Cause and Arson Detection	3
	[1]#FFP2810, Firefighting Strat. and Tactics I	3
	[3]#FFP2700, Fire Department Administration	3
	[1,2]+FFP1505, Fire Prevention Practices	3
	[1]+FFP2720, Company Officer	3
	[1,2]#FFP1540, Fire Protection Systems/Devices	3
	[1,2]#FFP2120, Building Construction	3
	#FFP1702, Fundamentals of Fire and Emergency Services	3
	Technical Electives Inspection and/or Tactics Courses	12
TOTAL DEGREE HOURS		**60**

Inspection Courses
[2]# FFP1510, Building and Fire Codes, 3 crs.
[2]# FFP2521, Blueprint Reading and Plans Exam, 3 crs.
Tactics Courses
\# FFP1302, Fire Apparatus Operations, 3 crs.
\# FFP1301, Firestream Hydraulics, 3 crs.
[1]# FFP2811, Firefighting Strat. and Tactics II, 3 crs.
Technical Electives
Any FFP Fire Science Course
\# EMS1119, Emergency Medical Technician, 5 crs.
\# EMS1401, Emergency Med. Tech. Lab, 4 crs.
\# EMS1335, Emergency Vehicle Operator I, 1 cr.
[3]# FFP2111, Fire Chemistry, 3 crs.
[1]# FFP2740, Fire Science Instructor Techniques, 3 crs.
[3]# FFP1741, Fire Service Course Design, 3 crs.
[3]# FFP2706, Public Information Officer, 3 crs.
[3]# FFP2770, Ethical & Legal Issues of
     the Fire Service, 3 crs.
[3]# FFP2793, Fire & Life Safety Educator I, 3 crs.
     FFP1140, 1st Responder, 3 crs.
FFMS (with passing SCE), 3 crs.

FFMS refers to State of Florida Firefighter Minimum Standards Training programs.
SCE refers to the state certification examinations.
Other training programs will be evaluated by the designated advisor.
[1] = Fire Officer I
[2] = Fire Inspector
[3] = Fire Officer II

+ Prerequisites and/or corequisites required. See course descriptions.
\# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

FIREFIGHTING
(FIR1-VC)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for Florida State Firefighter Certification.

Prospective students may be required to take the TABE test; score of 10th grade level is required. Application packet to the Florida State Fire College will consist of the following:
1. Application for certification as a firefighter.
2. Medical examination form.
3. Electronic fingerprints.
4. High school diploma or GED (transcript required).
5. Driver's license or birth certificate.

In addition to GCSC tuition and books, the following fees are required to be registered with the Florida State Fire College:
1. GCSC Fingerprint Fee, $80
2. Fire College Application Fee, $30

Academy classes have specific attendance policies that may differ from the general GCSC attendance policy. For specifics, contact the program manager or the academy recruit manual.

Courses		Credit Hours
	=FFP0010, Firefighter 1	6.9
	=FFP0020, Firefighter 2	6.4
	=FFP0069, Firefighter Capstone	1.5
	#FFP1140, First Responder to Medical Emergencies	3 crs.
	OR	
	EMS1119, Emergency Medical Tech	5 crs.
	OR	
	EMS2231, Paramedic I	5 crs.
TOTAL DEGREE HOURS		3 crs./14.8 vc

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+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

FLORIDA CHILD CARE PROFESSIONAL CREDENTIAL
(FCCP-CT)

AREA OF CONCENTRATION: This credential provides students with the knowledge base and professional skills necessary for teachers of children from birth to 5 in early education and care programs, to include pre-kindergarten programs across the state of Florida. The Florida Department of Children and Families authorizes and oversees all FCCPC programs.

This credential can be earned by students who complete the eleven (11) credit hours of the program and who can document at least 480 hours of direct supervision of children in the birth to 5 age range, with a minimum of 120 hours of direct supervision (of the 480-hour total) having been conducted during the student's enrollment in this credential program. Students must also compile an Early Childhood Portfolio that includes an autobiography, competency statements, and a resource collection as validation of teacher core competencies and successfully complete an on-site observation validating competence in FCCPC functional areas and goals.

All FCCPC students must be at least 18 years of age upon entry into the program and have a high school diploma or equivalent. **ALL FCCPC** students should be aware that the State of Florida requires a thorough background check by the Florida Department of Law Enforcement (FDLE) prior to the student entering the classroom for observation. The college requires the submission of written verification of this approved and completed background check before students may complete on-site course requirements. Students completing observations in school systems must go to the district in which they will complete observations and comply with the requirements of that system. The students will be required to pay a fee for the cost of the background check.

Courses		Credit Hours
	EEC1701, Child Development	4
	+EEC2240, Social Studies and Creative Expression For Young Children	3
	+#EEC1319, Portfolio Development and Supervised Work Experience	4
TOTAL DEGREE HOURS		11

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

**GREEN BUILDING CONSTRUCTION TECHNOLOGY
(GBCT-CCC)**

AREA OF CONCENTRATION: The purpose of this program is to prepare students for employment as construction specialists, construction managers, construction and building inspectors, quality control assistants; schedulers, or materials testers in the areas of estimating, scheduling, and interpreting plans or to provide supplemental training for persons previously or currently employed in these occupations. It provides a foundation in pursuing a career in building inspection and quality control for the Green Building industry.

Courses		Credit Hours
	#BCN1040, Introduction to Sustainability and Measurement Systems	3
	+#BCN2046, Sustainable Construction	3
	#BCN1043, Introduction to Sustainable Design Materials and Resources	3
	+#BCN2643, Economics of Sustainable Construction	3
	#ETP1500L, Alternative Energy Inventory and Analysis	3
	+#BCN2581C, Green Building Delivery Systems and Techniques	3
Alternative Energy Option	#ETP1410C, Solar Energy	3
	#ETP1520C, Geothermal	3
Sustainable Design Option	#BCN1044, Introduction to Indoor Environmental Air Quality	3
	#BCN1041, Introduction to Sustainable Sites	3
TOTAL DEGREE HOURS		24

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

HEALTH SCIENCE AS
(HS1-AS)

AREA OF CONCENTRATION: The purpose of this 64 college credit Associate in Science program is to educate students in the specialty of Health Science education and promote knowledge based critical thinking regarding safe healthcare practice. Upon completion of all graduation requirements, graduates of this program will receive an Associate in Science degree in Health Science (HS1-AS) which includes a college credit certificate in the subspecialty for the chosen area of expertise. Currently, there are three areas of specialization (college credit certificates) which articulate into this program: Central Sterile Processing Technologist-CCC (CSPT-CCC), Endoscopic Technician-CCC (ENDO-CT), and Surgical Technologist-CCC (SURC-CCC). Documentation of specialization can also be documented with proof of *NATIONAL* certification as a surgical technologist (CST), sterile processing technician, or endoscopic technician which is current and in good standing.

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences containing a current listing of admission and course requirements.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		
	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	3
Natural Sciences Area		
Biological Science	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	PSY2012 or SYG2000, Psychology/Sociology	3
CORE PREREQUISITE COURSES		
Requirements for the Surgical Core Track Options I, II, III Common Prerequisites Required:		
	#*STS1300, Surgical Anatomy and Physiology	5
	#*HSC1000, Orientation to Perioperative Services	3
	#*HSC1000L, Orientation to Perioperative Services Lab	1
	#*HSC2520, Microbiology for Perioperative Services	3
CORE COURSE TRACKS Choose one (1) of the following three Core Options:		
	Core Option I, Endoscopic Technician (12 crs.) (ENDO-CT)	
	+#*STS1925, Endoscopy Basics	3
	+#*STS1925L, Endoscopy Basics Lab	1
	#*STS1926, Endoscopy Technician Theory	3
	+#*STS1926L, Endoscopy Tech Lab & Clinical	3
	#*STS2361, The Art of Teamwork in Surgery	1
	#*STS2365, Professional Skills for the OR Team	1
	Core Option II, Central Sterile Processing Technologist (18 crs.) (CSPT-CCC)	
	+#*HSC1434, Central Processing Technology	6
	+#*HSC1434L, Central Processing Technology Lab and Clinical	6
	+#*STS1925, Endoscopy Basics	3
	+#*STS1925L, Endoscopy Basics Lab	1
	#*STS2361, The Art of Teamwork in Surgery	1
	#*STS2365, Professional Skills for the OR Team	1

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

	Core Option III, Surgical Technologist (37 crs.) (SURC-CCC)	
	+#*STS1302, Introduction to Surgical Technology	4
	+#*STS1302L, Introduction to Surgical Technology Lab and Clinical	2
	+#*STS1310, Surgical Tech & Procedures	4
	+#*STS1310L, Surgical Tech & Proc. Lab/Clinical	2
	+#* STS1340, Pharmacology and Anesthesia	2
	+#* STS2323, Surgical Procedures I	4
	+#* STS2323L, Surgical Procedures I Simulation Lab	2
	+#* STS2324, Surgical Procedures II	4
	+#* STS2324L, Surgical Procedures II Simulation Lab	2
	+#* STS2944, Surgical Technologist Clinical I	3
	+#* STS2945, Surgical Technologist Clinical II	3
	#* STS2953, Surgical Technologist Portfolio I	1
	#* STS2954, Surgical Technologist Portfolio II	2
	#* STS2365, The Art of Teamwork in Surgery	1
	#* STS2361, Professional Skills for the OR Team	1
Total Elective Credits for ENDO-CT	See Elective Options Below *(See Surgical Services Advisor for guidance)*	25
Elective Credits for CSPT-CCC	See Elective Options Below (See Surgical Services Advisor for guidance)	19
TOTAL DEGREE HOURS		64

Elective Options

　　ACG2001 or Higher
\#　ASL1400 or Higher

•+　BSC1005 or Higher
+　Humanities I, II or III Any Gen Ed Approved
　　BUL2241 or Higher
\#　CGS1000 or Higher
　　CHM1032 or Higher
　　CLP1001 Human Relations
　　DEP2004 or Higher Developmental Psychology

•　ECO2013 or Higher
　　EDF 1005 or Higher

•+* ENC1101 or Higher
　　ENT2000 or Higher

•　EVR1001 or Higher
\#* EVT2060 or Higher Education: Vocational/Technical
　　FRE1000 or Higher
　　SPN 1000 or Higher
　　GEB1011 or Higher
\#　HIM1000 or Higher
　　HLP1081, Wellness
+\#　HSA2182 or Higher
+#* HSC1000 or Higher
　　HUN1201, Nutrition
　　LIS2004, Introduction to Internet Research
+　MAC1105 or Higher Mathematics
+　MAN2021 or Higher
　　MAR2011 or Higher
+　MCB2004 or Higher

•+　MGF1106 or Higher

+ Prerequisites and/or corequisites required. See course descriptions.
\# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

MKA2511 or Higher
MNA1100, Human Relations in Management
+* PHI2002 or Higher
   • PHY1020 or Higher

   • POS2041 or Higher
   PSY2012
QMB1001
+ SBM2000
+ SLS1201 or Higher
   SPC1420 or Higher
+ STA2023 or Higher
   STS2367, Management in Healthcare
   SYG2000 or Higher
+ TRA2010 or Higher

APPLICATION PROCESS:
A. Apply for admission to Gulf Coast State College.
B. Submit the Health Science program application forms.
C. Take the placement test as required in the Surgical Services program selection package.
D. Must submit proof such as an official high school graduation or GED transcript to the Office of Enrollment Services.
E. Submit official transcripts from all previous colleges to the Office of Enrollment Services for evaluation.
F. Have two reference forms mailed to the program director.
G. Request a transcript analysis with course instructor (if certified or a certified surgical technologist evaluation, request an external credit evaluation).

Requirements to enter the courses HSC1000 and HSC1000L.
1. Satisfactory fingerprint/criminal background check.
2. Submission of completed documentation of immunization status as required for clinical entry.
3. Copy of current certification in CPR by the American Heart Association or Red Cross Health Care Provider based on the International Liaison Committee on Resuscitation requirements.
4. Drug Screen or other requirements as outlined by the clinical sites.
5. Submit proof of age—18 years or older on or before the clinical start date for the applied class year.
6. For Endoscopic or Central Sterile Processing programs, completion of the physical examination with satisfactory results.

Minimum Requirements for Admission to the Core Program: Listed below are the specific requirements for admission to this program. It should be understood, however, that **only** the minimum requirements are given and that admission to this program is a selective process. The satisfaction of minimum requirements does not automatically guarantee admission. When space is limited, preference may be given to students within the college's assigned district.
1. **Recommended prerequisites:** Satisfactory completion with a grade of "C" or higher in STS1300, HSC1000, HSC1000L, and HSC2520. Preference will be given to students who have completed the recommended prerequisites or are currently enrolled with a satisfactory grade.
2. Complete the application process satisfactorily as outlined in the selection package including requirements specified by the clinical site.
3. Completion of physical examination with satisfactory results.

GCSC Articulation: Up to 48 of the 49 surgical technology specialization college credits in the classroom, lab skills and clinical experience may be granted by validated current proof of certification as a surgical technologist (CST) by the National Board of Surgical Technologists and Surgical Assistants towards a CCC and/or AS degree in Health Sciences. The remaining 15 general education courses plus at least 1 credit of the Surgical Technologist courses representing 16 college credits (25% of the program) must be successfully completed for the AS in Health Science (AS1-HS) degree.

Central Sterile Processing Specialization: Up to 29 of the 30 Central sterile specialization college credits in the classroom, lab skills and clinical experience may be granted by validated current proof of certification as a central sterile processing technician. The remaining 15 general education courses plus at 19 elective credits from the approved list must be completed towards a CCC and/or AS degree in Health Science (HS1-AS).

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

Both Articulations: To be eligible to graduate from GCSC, the student will have to complete at least 25% of the entire 64 credit program with Gulf Coast State College which is a minimum of 16 credit hours completed at GCSC for the AS Degree. See the program advisor to develop an education plan that fits your experience and education needs.

Graduation and Retention Requirements: For the Health Science program, students must earn a grade of "C" or higher in each required core course. See specialization track student handbook for further information regarding graduation, retention, dismissal, readmission, and transfer credit policies.

Recommended Degree Plan: Please refer to the degree plan for each specialization track college certificate subspecialty to determine what classes are typically offered each term. This program represents a full-time student plan with completion in two years for a typical AS degree. The General Education courses should be taken in spring/summer terms just prior to the August common prerequisite courses offered in fall of each year. If you need to do the courses part-time, you may adjust any general education or elective course option courses. However, the prerequisite and core program courses with the HSC or STS prefix are only offered and or recommended during the term indicated in the specialization track degree plan.

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+ Prerequisites and/or corequisites required. See course descriptions.

Applies only to A.S. degree and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

HOSPITALITY AND TOURISM MANAGEMENT
(TOUR-AS)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for immediate employment in an entry level hospitality industry.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
	See General Education Requirement	3
Mathematics Area/Natural Sciences Area		
	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	PSY2012 or SYG2000, Psychology/Sociology	3
MAJOR COURSES		
	CGS1570, Microcomputer Applications	3
	+#QMB1001, College Business Math	3
	ACG2001, Financial Accounting I	3
	BUL2241, Business Law	3
	#FOS2201, Sanitation and Safety	2
	#FSS1002, Introduction to Hospitality	3
	HFT1000, Intro. to Hotel/Restaurant Mgmt	3
	#HFT1300, Managing Housekeeping Operations	3
	#HFT2451, Cost Control and Purchasing	3
	#HFT1254, Lodging Operations	3
	#HFT1210, Hospitality Management	3
	#HFT1860, Beverage Management	3
	+#FSS1202C, Basic Food Preparation	4
	MAR2011, Marketing	3
	#HFT2750, Convention Service Management	3
	+HFT2949, Hospitality Coop	1
Elective	Humanities Elective	3
TOTAL DEGREE HOURS		**64**

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

LEGAL ASSISTING/PARALEGAL
(LEGL-AS)

AREA OF CONCENTRATION: The purpose of this program is to prepare students to work as legal assistants and/or paralegals, i.e., to serve as assistants to attorneys and to perform many complex tasks under the supervision of attorneys. The legal assistant's responsibilities may include the following: conducting legal and factual research; interviewing clients and witnesses; reviewing and organizing case material for settlement negotiations or trial; drafting legal documents and forms; summarizing depositions, interrogatories, and testimony; and functioning as a member of a legal team. Students who graduate from this program would typically work in law firms, government agencies, financial institutions, corporations, law courts, insurance agencies, banks, department stores, credit departments, real estate offices, and health care facilities. Completion of the legal assisting program leads to an Associate in Science degree.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
	+*ENC1102, English II	3
Humanities Area		
	See General Education Requirement	3
Mathematics Area		
	See General Education Requirement	3
Social Sciences Area		
Behavioral Sciences	•*PSY2012 or •*SYG2000 Psychology/Sociology	3
MAJOR COURSES		
	#PLA1423, Contract Law	3
	#PLA2433, Corporations, Partnerships, & Agency Law	3
	CJL2100, Criminal Law	3
	PLA2308, Criminal Procedure	3
	CJL2130, Evidence	3
	PLA2800, Family Law	3
	PLA 2600, Wills, Trusts, and Probate	3
	PLA2610, Real Property Law I	3
	PLA2190, Legal Reasoning	3
	PLA1203, Civil Practice and Procedure I	3
	+#PLA2223, Civil Practice and Procedure II or #MNA1100, Human Relations in Management	3
	+PLA1104, Legal Writing and Research I	3
	+#PLA2114, Legal Writing and Research II or +ENC2210, Technical Writing	3
	•POS2041, American National Government or PLA2949, Legal Assisting Co-op	3
	CGS1570, Microcomputer Applications	3
	QMB1001, College Business Math	3
Electives		1
TOTAL DEGREE HOURS		**64**

NOTE: Courses beginning with prefix PLA are offered at NIGHT ONLY and are taught at GCSC's main campus.

FALL SEMESTER SCHEDULE:

    PLA1104, Legal Writing and Research I
    PLA1203, Civil Practice & Procedure I
    PLA1423, Contract Law
    PLA2190, Legal Reasoning
    PLA2308, Criminal Procedure

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

PLA2600, Wills, Trusts, and Probate
CJL2100, Criminal Law
CJL2130, Evidence

SPRING SEMESTER SCHEDULE:
PLA2114, Legal Writing and Research II or ENC2210, Technical Writing
PLA2223, Civil Practice & Procedure II
PLA2433, Corporations, Partnerships, Agency
PLA2308, Criminal Procedure
PLA2610, Real Property Law I
PLA2800, Family Law
CJL2100, Criminal Law
CJL2130, Evidence

SUMMER A&B SEMESTER SCHEDULE:

No PLA classes are offered in the summer. We suggest students take General Education classes.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

**LOGISTICS AND TRANSPORTATION SPECIALIST
(LTSL-CCC)**

The purpose of this program is to prepare students for immediate employment in the field of transportation, distribution, and logistics. Students pursuing this certificate will be offered the knowledge and experiences to prepare them for the integration of business processes involved in the planning, acquisition, flow, and distribution of regional, national, and global goods and services. Emphasis is placed on the development of business and managerial skills necessary for the efficient and effective performance of all operations within an organization's supply chain.

Courses		Credit Hours
	MAN2043, Principles of Quality Management	3
	MAN2500, Operations Management	3
	+TRA2010, Transportation and Distribution	3
	+TRA2131, Purchasing and Inventory Management	3
	TRA2154, Introduction to Supply Chain Management	3
	+TRA2230, Warehouse Management	3
TOTAL DEGREE HOURS		18

MASSAGE THERAPY
(MT-ATC)

AREA OF CONCENTRATION: The advanced technical certificate (ATC) in massage therapy is a 12-credit certificate program for graduates of the Physical Therapist Assistant program. The program is dedicated to advancing the science and art of soft tissue mobilization in an effort to enhance the quality of therapeutic treatment and promoting patient wellness. The purpose of offering the program to our graduates is to increase their knowledge and performance of manual skills and to improve their qualifications for a job in physical therapy. Successful graduates of this curriculum are eligible to take a national certification examination and, upon satisfactory achievement, become licensed Massage Therapists

Courses		Credit Hours
	+#PHT2203, Manual Techniques I	3
	+#PHT2203L, Manual Techniques I Lab	2
	+#PHT2204, Manual Techniques II	3
	+#PHT2204L, Manual Techniques II Lab	2
	+#PHT2803, Clinical Practicum in Manual Techniques I	1
	+#PHT2208, Clinical Practicum in Manual Techniques II	1
TOTAL DEGREE HOURS		12

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

MECHATRONICS
COLLEGE CREDIT CERTIFICATE
(MECH-CCC)

AREA OF CONCENTRATION:
The purpose of this certificate program is to prepare students for initial employment with an occupational title as Mechatronics Technician or System Integration Specialist in various specialized areas, or to provide supplemental training for persons previously or currently employed in these occupations.

Courses		Credit Hours
	#ETS1520C, Electronic Components and Instrumentation.	3
	+#ETD1320, AutoCAD	3
	#ETI1420, Manufacturing Processes II	3
	+#ETS2542C, Programmable Logic Controllers	3
	#ETI1701, Industrial Safety	3
	#ETI2001C, Applied Mechanics	3
	+#ETS2606C, Robotics	3
	+#ETS2680C, Mechatronics I	3
	+#ETS2681C, Mechatronics II	3
	+#ETS2700C, Electro-Hydraulics & Pneumatics	3
TOTAL DEGREE HOURS		30

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

MULTIMEDIA VIDEO PRODUCTION
COLLEGE CREDIT CERTIFICATE
(MVP-CCC)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for initial employment as a videographer, video editor, or to provide supplemental training for persons previously or currently employed in these occupations. The content should include, but not be limited to design and generation of video and/or animations and the production of digital media/multimedia projects. This certificate program is part of the Digital Media/Multimedia Technology AS degree program. 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 Arts A/V Technology and Communication 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 Arts A/V Technology and Communication career cluster.

Courses		Credit Hours
	DIG2200, Basic Video	3
	+DIG2203, Advanced Digital Video or +DIG2205, Basic Video Editing	3
	+DIG2410, Basic Scripting for Video and Digital Media	3
	+#DIG2290, Studio Production and Direction	3
TOTAL DEGREE HOURS		12

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

NETWORK INFRASTRUCTURE
COLLEGE CREDIT CERTIFICATE
(NINF-CCC)

The Network Infrastructure certificate prepares students for careers in the Information Technology Career Cluster as network support technicians, network analysts, network administrators/managers, and subject matter experts.

This program maps courses to industry recognized certification pathways including CompTIA Network+, Security+, and Cisco CCNA.

Courses		Credit Hours
	+CTS1120, Security+	3
	+CTS1134, Networking Essentials (Network +)	3
	+#CTS1650, Network Fundamentals	3
	+CTS1651, Cisco Router Technology/Router Protocols and Concepts	3
	+CTS2652, Advanced Router Tech (CISCO/CCNA)	3
	+#CTS2653, Cisco Project-Based Learning/Accessing The WAN	3
Choose two of the following:		
	#+CNT1510, Wireless Networking	3
	+CIS2351, Encryption & Cryptography	3
	+CIS2352, Ethical Hacking I	3
	+#CIS2359, Ethical Hacking II	3
	#*CTS1390, Installing & Configuring Windows Server 2012	3
	+#*CTS1391, Administering Windows Server 2012	3
	+#*CTS1392, Configuring Advanced Windows Server 2012	3
	+CTS2314, Network Defense and Countermeasures	3
	+CTS2315, Intrusion Detection and Firewalls	3
	+CTS2370, Virtual Infrastructure and Configuration	3
TOTAL DEGREE HOURS		24

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

NETWORK SECURITY (CYBERSECURITY)
COLLEGE CREDIT CERTIFICATE
(NSEC-CCC)

The Cybersecurity certificate prepares students for careers in the Information Technology Career Cluster as security technicians, analysts, and examiners. This program maps courses to industry recognized certification pathways including CompTIA Security+, and Certified Ethical Hacker. Students should have completed the CompTIA A+ certification before starting this program.

Courses		Credit Hours
	+CIS2351, Encryption & Cryptography	3
	+CIS2352, Ethical Hacking I	3
	+#CIS2359, Ethical Hacking II	3
	+CIS2381, Computer Forensics & Incident Response	3
	#CTS1111, Linux+	3
	+CTS1120, Security+	3
	+#CTS1650, Network Fundamentals	3
	+CTS1651, Cisco Router Technology/Router Protocols and Concepts	3
	+CTS2314, Network Defense and Countermeasures	3
	+CTS2315, Intrusion Detection and Firewalls	3
TOTAL DEGREE HOURS		30

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

NETWORK SERVER ADMINISTRATION
COLLEGE CREDIT CERTIFICATE
(NESA-CCC)

The Network Server Administration certificate prepares students for careers in the Information Technology Career Cluster as network support technicians/analysts, network administrators/managers, and subject matter experts. This program maps courses to industry recognized certification pathways including CompTIA Network+, Security+, and Microsoft MCSA, MCSE, MCITP, and MCTS.

Courses		Credit Hours
	#*CTS1390, Installing & Configuring Windows Server 2012	3
	+#*CTS1391, Administering Windows Server 2012	3
	+#*CTS1392, Configuring Advanced Windows Server 2012	3
	#CTS1111, Linux+	3
	+CTS1120, Security+	3
	+CTS1134, Networking Essentials (Network +)	3
	+#CTS1650, Network Fundamentals	3
	+CTS1651, Cisco Router Technology/Router Protocols and Concepts	3
TOTAL DEGREE HOURS		24

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

NETWORK SUPPORT TECHNICIAN
COLLEGE CREDIT CERTIFICATE
(NST-CCC)

The Network Support Technician certificate prepares students for careers in the Information Technology Career Cluster as customer/network support technicians. This program maps courses to industry recognized certification pathways including CompTIA A+, Network+, Security+, Linux+, and ITIL Foundations.

Courses		Credit Hours
	#CTS1111, Linux+	3
	+CTS1120, Security+	3
	#CTS1131, A+ Hardware	3
	*CTS1133, Desktop Operating Systems (A+ Software)	3
	+CTS1134, Networking Essentials (Network +)	3
	+CTS1156, Customer Support Fundamentals (ITIL)	3
	+#CTS1650, Network Fundamentals	3
	+CTS1651, Cisco Router Technology/Router Protocols and Concepts	3
TOTAL DEGREE HOURS		24

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

NETWORK SYSTEMS TECHNOLOGY (CYBERSECURITY)
(CYBR-AS)

The Associate of Science degree in Cybersecurity and Network Systems Technology prepares graduates for careers in the Information Technology Career Cluster, including, but not limited to, systems/network/security managers, administrators, technicians, and specialists; digital forensics analysts/technicians, and customer/technical support personnel.

This program maps courses to industry recognized certification pathways offered by CompTIA, Cisco, ITIL, and Microsoft.

Students complete 15 general education and 27 major course credits before branching into one of four specializations—security, digital forensics, network server administration, network infrastructure—each with 21 credit hours of additional course work. Degree-seeking students also complete one or more college credit certificates as part of their program.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		
	See General Education Requirement	3
Mathematics Area		
	•+*MAC1105, College Algebra	3
Natural Sciences Area		
	See General Education Requirement (•*PHY1020 recommended)	3
Social Sciences Area		
Philosophy/Religion	+PHI2600, Ethics	3
Behavioral Sciences	PSY2012 or SYG 2000, Psychology/Sociology	3
MAJOR COURSES		
	#CTS1111, Linux+	3
	#CTS1131, A+ Hardware	3
	*CTS1133, Desktop Operating Systems (A+ Software)	3
	+#CTS1650, Network Fundamentals	3
	+CTS1651, Cisco Router Technology/Router Protocols and Concepts	3
	+CTS1134, Networking Essentials (Network +)	3
	+CTS1120, Security+	3
	CGS1103, Project Management	3
	+CTS1156, Customer Support Fundamentals (ITIL)	3
Choose one of the following options:		
	Network Security (Cybersecurity) (CYB1)	
	+CIS2352, Ethical Hacking I	3
	+#CIS2359, Ethical Hacking II	3
	+CIS2381, Computer Forensics & Incident Response	3
	+CTS2314, Network Defense and Countermeasures	3
	+CTS2315, Intrusion Detection and Firewalls	3
	COP1000, Introduction to Programming Logic	3
	Choose one of the following:	3
	+#CAP2141, Data Forensics II Advanced	3
	+CIS2351, Encryption & Cryptography	3
	+#CNT1510, Wireless Networking	3
	+CTS2652, Advanced Router Tech (CISCO/CCNA)	3
	+CTSS2370, Virtual Infrastructure: Installation and Configuration	3
	+#*CTS2653, Cisco Project-Based Learning/Accessing the WAN	3
	+CNT2949, Computer Networks Coop	3

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

	Digital Forensics (CYB2) This is a restricted program based upon special requirements needed to work for a Law Enforcement Agency including: Citizen of the United States; high school diploma or GED (transcript required); Not discharged from the Armed Forces under dishonorable conditions; Good moral character and NOT have been convicted of a felony, or any misdemeanor involving lying or perjury; submit to and pass a background investigation to include a fingerprint check.	
	+#CAP2141, Data Forensics II Advanced	3
	+CIS2381, Computer Forensics & Incident Response	3
	#CJE1640, Intro to Crime Scene Technology	3
	+#CJE1643, Advanced Crime Scene Technology	3
	#CJL2610, Courtroom Presentation of Scientific Evidence	3
	#CJE2640, Intro to Forensic Science	3
	Choose one of the following:	
	+CIS2352, Ethical Hacking I	3
	+CIS2351, Encryption & Cryptography	3
	+CNT2949, Computer Networks Co-op	3
	Network Server Administration (CYB3)	
	#*CTS1390, Installing & Configuring Windows Server 2012	3
	+#*CTS1391, Administering Windows Server 2012	3
	+#*CTS1392, Configuring Advanced Windows Server 2012	3
	+COP1000, Intro to Programming Logic	3
	Choose three of the following:	
	+#CAP2141, Data Forensics II	3
	#+CNT1510, Wireless Networking	3
	+CIS2351, Encryption and Cryptography	3
	+CIS2352, Ethical Hacking I	3
	+#CIS2359, Ethical Hacking II	3
	+CIS2381, Computer Forensics & Incident Response	3
	+CTS1939, Special Topics	3
	+CTS2314, Network Defense and Countermeasures	3
	+CTS2315, Firewalls and Network Security	3
	+#CTS2370, Virtual Infrastructure: Installation and Configuration	3
	+CTS2652, Advanced Router Technology (CCNA)	3
	+#*CTS2653, Cisco Project-Based Learning/Accessing the WAN	3
	+CNT2949, Computer Networks Coop	3
	Network Infrastructure (CYB4)	
	#*CTS1930, Installing & Configuring Windows Server 2012	3
	+CTS2315, Intrusion Detection and Firewalls	3
	+CTS2652, Advanced Router Technology (CCNA)	3
	+#CTS2653, Cisco Project-Based Learning/Accessing the WAN	3
	COP1000, Intro to Programming Logic	3
	Choose two of the following:	
	#+CNT1510, Wireless Networking	3
	+CIS2351, Encryption & Cryptography	3
	+CIS2352, Ethical Hacking I	3
	+#CIS2359, Ethical Hacking II	3
	+#*CTS1391, Administering Windows Server 2012	3

+ Prerequisites and/or corequisites required. See course descriptions.
\# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

	+#*CTS1392, Configuring Advanced Windows Server 2012	3
	+#CTS1939, Special Topics	3
	+CTS2314, Network Defense and Countermeasures	3
	+CTS2370, Virtual Infrastructure and Configuration	3
	+CNT2949, Computer Networks Co-op	3
TOTAL DEGREE HOURS		**63**

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

NUCLEAR MEDICINE TECHNOLOGY
(NMT-CCC)

AREA OF CONCENTRATION: The Nuclear Medicine Technology College Credit Technical Certificate is intended for Allied Health Professionals with Associates Degrees and who maintain a professional license.   A selective admissions policy with specific selection criteria is utilized in order to select the most qualified applicants. The strength of the applicant pool varies year-to-year, with the best qualified applicants receiving first consideration. It is the applicant's responsibility to inquire about these specific admission and selection criteria and to ensure that all required documents are received on campus prior to the deadline of July 15 of each year. Upon completion of the twelve (12) months, full time program, the student will be eligible to take the American Registry of Radiologic Technologist Nuclear Medicine Examination and/or the Nuclear Medicine Technology Certification Board Examination.

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences, containing a current listing of admission and course requirements.

Admission Requirements:
Application to Nuclear Medicine Technology Technical Certificate program which includes:
1. Apply for admission to Gulf Coast State College.
2. Submit program application form, including Technical Standards form.
3. Possess an Associate's Degree in an Allied Health Care Profession and hold a current professional license.
4. Completion of additional required General Education courses requirements with a "C" or better.
5. Submit official high school transcript or copy of GED scores to Enrollment Services.
6. Submit official college transcript and have evaluation completed by Enrollment Services.
7. Schedule a visit to the Medical Imaging Programs Director for an advisement session.
The program begins in the spring semester each year. The deadline for submission of the completed application package is July 15. The program employs a selective admission process whereby applicants are chosen based on a composite admissions score. Applicants who meet all minimum requirements for admission are evaluated for their preparedness to enter the program. Four areas are considered:
1. Number of required general education courses successfully completed.
2. Cumulative Grade Point Average of 2.5 or higher.
3. Letters of recommendation.
4. Hold a current professional license in an Allied Health Care field.

Requirements after conditional acceptance:
1. Satisfactory fingerprint / criminal background check completed by Gulf Coast State College.
2. Copy of current CPR certification. Either the American Heart Association Health Care Provider Life Support Course or the American Red Cross CPR for the Professional Rescuer is acceptable.
3. Completion of physical examination with satisfactory results.
4. Copy of Immunization records to include Hepatitis B series or signed waiver and annual TB test according to program requirements.

All courses must be completed with a "C" or better prior to program admission.

Courses		Credit Hours
	+*BSC2086, Anatomy and Physiology II	3
	* BSC2086L, Anatomy and Physiology II Lab	1
	+*CHM1032, General, Organic Chemistry	3
	+*Approved Physics, contact advisor (Suggested Physics: PHY1001, PHY1007, •PHY1020, PHY1023, PHY2023, •PHY2053)	3
	+#*NMT1613, Nuclear Medicine Physics	3
	+#*NMT1713, Nuclear Medicine Methodology I	3
	+#*NMT1804, Nuclear Medicine Clinical Education I	3
	+#*NMT1723, Nuclear Medicine Methodology II	3
	+#*NMT1814, Nuclear Medicine Clinical Education II	3
	+#*NMT1733, Nuclear Medicine Methodology III	3
	+#*NMT1824, Nuclear Medicine Clinical Education III	3

+ Prerequisites and/or corequisites required. See course descriptions.
\# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

	+#*NMT1834, Nuclear Medicine Clinical Education IV	3
	+#*NMT1312, Radiation Protection and Safety	3
	+#*NMT2061, Nuclear Medicine Seminar	2
	+#*NMT2130, Radiopharmacy and Radiochemistry	3
	+#*NMT2534C, Nuclear Medicine Instrumentation	3
	+#NMT2430, Nuclear Medicine Radiation Biology	3
TOTAL DEGREE HOURS		**48**

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

NURSING, ASSOCIATE DEGREE
(RNA-AS/RN-AS)

AREA OF CONCENTRATION: The purpose of the associate degree nursing program is to prepare students for eligibility to apply for the Registered Nurse National Council Licensing Examination.

The nursing program is fully approved by the Florida State Board of Nursing and accredited by the Accreditation Commission for Education in Nursing (ACEN) formerly the National League of Nursing and the Accrediting Commission (NLNAC). Institutional membership is maintained in the NLN Council of Associate Degree Programs and the National Organization of Associate Degree Nursing.

Upon successful completion of the prescribed course of study, students receive an Associate in Science Degree in Nursing which enables them to apply for the National Council Licensure Examination (NCLEX-RN). Upon successful completion of this examination, the Registered Nurse (R.N.) License is received.

This program will articulate into a baccalaureate degree program in nursing at all universities in the State University System.

Before beginning this program of study, students should obtain a program application packet from the Division of Health Sciences containing a *current* listing of admission and course requirements.

APPLICATION PROCESS:
(The items below are listed only as a general guide. Students should obtain a current application packet for the complete listing of entry requirements.)
1. Application to Gulf Coast State College must be completed prior to applying for the associate degree nursing program.
2. Submit the completed nursing program application to Health Sciences Division.
3. Submit all previous school transcripts (including high school/GED and all previous colleges) to the Office of Admission and Records for evaluation.
4. Submit proof, as outlined in the application packet, of college level competency in reading, English, and algebra.
5. Successfully complete, with a "C" or higher, BSC 2085 and BSC 2085L (Anatomy and Physiology I lecture and Lab).
6. Contact the Assistant Coordinator of Health Sciences Admissions to be assigned to a nursing faculty advisor.
7. Successfully complete the nursing school entrance exam. (Registration process, study information, and minimum scores are contained in the nursing application packet.)

The Nursing program is a selective admission, limited enrollment program. Admission to Gulf Coast State College and the satisfaction of minimum requirements does not automatically guarantee admission. When space is limited, preference may be given to students within the community college's assigned district.

Deadline for Selection: All entry requirements, as outlined in the program application packet, must be completed by the appropriate deadlines for the two start dates each year. The deadline for the fall start date is the last working day of February and the deadline for the spring start date is the last working day of September.

Requirements after Conditional Acceptance:
A. Satisfactory fingerprint / criminal background check.
B. Copy of Valid CPR certification. Either the American Heart Association Health Care Provider Life Support Course or the American Red Cross CPR for the Professional Rescuer is acceptable.
C. Completion of physical examination (with satisfactory results), including copy of immunization form.

Refer to Nursing Student Handbook for retention, dismissal, and readmission policies.

Transfer Credit: Academic courses taken at other colleges are transferable provided credit and laboratory hours correspond with those required at GCSC. CLEP credits are acceptable for transfer according to college policy. The possibility of transferring nursing courses can be determined only after a review of the individual's transcript and course outlines. Advanced placement students are admitted on a space-available basis.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		3
	See General Education Requirement	
Mathematics Area		
	+*Approved college-level mathematics (MAC/MGF/STA)	3
Natural Sciences Area		
	+*BSC2085, Anatomy and Physiology I	3
	*BSC2085L, Anatomy & Physiology I Lab	1
	+*BSC2086, Anatomy & Physiology II	3
	*BSC2086L, Anatomy & Physiology II Lab	1
Social Sciences Area		
Behavioral Sciences	•*PSY2012, General Psychology	3
Major Courses		
	+*MCB2004, Microbiology	3
	*MCB2004L, Microbiology Lab	1
	*HUN1201, Principles of Nutrition	3
	*DEP2004, Developmental Psychology	3
	+*#NUR1022C, Foundations of Nursing Practice	3
	+*#NUR1210C, Nursing Care, Adult I	4
	+*#NURXXXX, Intermediate Comprehensive Adult Care	10
	+*#NUR1142, Introduction to Pharmacology	2
	+*#NUR2420C, Maternal-Infant Nursing	4
	+*#NUR2310C, Nursing Care of the Child	4
	+*#NUR2520C, Psychiatric-Mental Health Nursing	4
	+*#NURXXXX, Advanced Comprehensive Adult Care	11
TOTAL DEGREE HOURS		**72**

LPN-to-ADN ARTICULATION

PRIMARY ADVISOR: Debbie Brzuska (ext. 3317), Donna Wheeler (ext. 5840)

AREA OF CONCENTRATION: This program is designed to facilitate the transition from the role of licensed practical nurse to registered nurse. LPN applicants may earn up to 17 credits of nursing based on competency testing results.

The Nursing program is a selective admission, limited enrollment program. Admission to Gulf Coast State College and the satisfaction of minimum requirements do not automatically guarantee admission.

Before beginning this program of study, students should obtain a program application packet from the Division of Health Sciences containing a *current* **listing of admission requirements.**

Application Process: Complete application process as noted in the LPN-to-ADN program articulation.

Minimum Requirements for Admission to LPN-to-ADN Articulation:

Prior to entering NUR 1005C Nursing Transition, students must follow the checklist for students seeking LPN transition admission as outlined in the LPN-to-ADN articulation packet.

Requirements for completion of additional cognate courses will be determined based on placement of applicant within the nursing sequence.

Students choosing Option A in the articulation packet are required to take Excelsior College Mobility Exams. Official results from the following mobility exams must be sent to the registrar's office and a copy sent to the nursing department BEFORE the applicant can enroll in NUR 1005C. Guidelines for awarding of credit once accepted into the program are as follows:

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

Excelsior College Mobility Exam and Number:

Fundamentals of Nursing (403)
GCSC Credit: NUR 1022C
Minimum Required for Credit: Grade of "C"
Maximum Semester Hrs. Credit: 3

Adult Nursing (554)
GCSC Credit: NUR 1210C, NUR 1212C
Minimum Required for Credit: Grade of "C"
Maximum Semester Hrs. Credit: 9

Foundations of Gerontology (407)
GCSC Credit: NUR 1281C
Minimum Required for Credit: Grade of "C"
Students choosing Option B in the articulation packet are required to enroll in NUR1000C (Nursing Transitions, 5 credits). Content of the previous practical Nursing content areas of Foundations of Nursing Practice, Adult Nursing, and Foundations of Gerontology will be validated in this course.

Maximum Semester Hrs. Credit: 5
A.   Official transcripts must be sent to Enrollment Services. A current copy of the applicant's nursing license must be on file in the Health Sciences Division.
B.   Copy of Valid CPR certification. Either the American Heart Association Health Care Provider Life Support Course or the American Red Cross CPR for the Professional Rescuer is acceptable.
C.   Current education certificates in the Health Sciences file for HIV/AIDS, Domestic Violence, Medical Errors, Infection Control, IV Therapy, and HIPAA.

Scheduling Options:

The Traditional scheduling option allows the student to merge into the third semester of an existing weekday RN class. Once selected, this option will allow students to complete the RN program in two semesters. Students may be selected to enter the Traditional option during either fall or spring semesters.

The Weekend scheduling option selects one class of students per year with a February deadline; classes start with the fall semester and conclude with the spring semester. Classes meet Friday afternoons with 12.5 hour Saturday clinicals.

Additional Information:

- **Retention and Dismissal Requirements** - Refer to Nursing Student Handbook.
- **Readmission Requirements** - Refer to Nursing Student Handbook.
- **Transfer Credits** - Refer to associate degree nursing designated curriculum.
- **Graduation Requirements** – Refer to associate degree nursing.
- **Course Curriculum** – Refer to associate degree nursing.

Upon conditional acceptance into the nursing program, students must also submit:
A.   Satisfactory fingerprint / criminal background check.
B.   Medical examination with satisfactory results and copy of complete immunization record, including Hepatitis B immunization or signed waiver, and PPD or medical denial of symptoms.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

PERIOPERATIVE NURSING

GOAL: This course is designed to introduce the nursing student or registered nurse to Perioperative Nursing with a focus on the Intraoperative component. This course includes an introduction to the patient's perioperative experience, roles and responsibilities of the registered nurse; principles and practice of sterile technique; sterilization and disinfection; operating room hazards; and an introduction to surgical technique.

Course completion must be achieved within one semester. A second course is available through cooperative education for "hands on" experience in the operating room – NSP2290. This course is offered in cooperation with clinical affiliates. NSP2290 offers advanced training in the area of surgical nursing for any second through fourth term current nursing student or as an open enrollment class to any licensed registered nurse. This course is a requirement for local hospitals for employment in the surgical area.

Courses		Credit Hours
	#*NSP2290, Periop Nursing Theory	3
	#*NUR2290L, Periop Lab/Clinical	3

GASTROINTESTINAL ENDOSCOPIC NURSING

Goal: These courses are designed to introduce the nursing student or registered nurse to endoscopy (gastroenterology) nursing with a focus on the intraoperative component. This course includes an introduction to the patient's gastroenterology experiences. Roles and responsibilities of the gastroenterology nurse along with the principles and practices of gastroenterology practice are covered.

Course completion is achieved within one semester for each course. The second course provides "hands on" experience in gastroenterology nursing. This course is offered in conjunction with clinical affiliates.

Courses		Credit Hours
	#*NSP2230, GI Endoscopy Nursing Theory	3
	#*NUR2230L, GI Endoscopy Nursing Lab and Clinical	3

REGISTERED NURSE FIRST ASSISTANT

Goal: This set of courses are designed to introduce the certified perioperative nurse (CNOR) eligible registered nurse or advanced registered nurse practitioner (ARNP) to the perioperative specialty of surgical first assisting with a focus on the intraoperative component. Roles and responsibilities of the RNFA along with the principles and surgical techniques of first assisting practice are covered. Course meets the requirements of AORN and the Florida Nurse Practice Act. Certification is available for the Registered Nurse through the Competency Credentialing Institute, Inc. (CCI) provided all application requirements are met. Course completion is achieved within one year for both courses. The second course provides "hands on" experience in gastroenterology nursing. Students complete an on-site lab experience. Exact dates are available from the Coordinator of Surgical Services.

Courses		Credit Hours
	#*NSP2290, Periop Nursing Theory or proof of certification as a perioperative nurse (CNOR)	3
	#*NSP2090 ,RNFA Nursing Theory	3
	#*NSP2090L, RNFA Nursing Lab and Clinical	3

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

PHARMACY TECHNICIAN
APPLIED TECHNOLOGY DIPLOMA
(PHR1-ATD)

AREA OF CONCENTRATION: The Pharmacy Technician diploma program is designed to train students in developing and mastering basic technical skills, theoretical concepts, and clerical functions in the operation of a pharmacy. Graduates of this program will work under the supervision of a licensed pharmacist in compounding (measure/weigh/mix) medicinal drugs, preparing and labeling medicines; filling bottles and vials with the correct quantity of medicine; issuing medicines to the customers; maintaining inventory; keeping patient's medication profiles on specified records, forms or computerized systems, collecting, organizing and evaluation of information for direct patient care, medication review, and department management. Upon successful completion of this program, the graduate will be awarded a Pharmacy Technician Applied Technology Diploma and will be eligible to apply to the Florida Board of Pharmacy to become a registered pharmacy technician.

To apply for this program of study, students must obtain a program application packet from the Division of Health Sciences or from the current Internet webpage. This packet will contain a current listing of admission and course/program requirements.

Admissions
Provisional Admission Requirements:
A.   Application to Gulf Coast State College.
B.   Application to Pharmacy Technician Program should be completed the summer term deadline specified in the program application packet. Applicants are selected for this program using a cumulative point system based upon meeting the published admissions criteria in the program application packet.
C.   High school diploma (or GED completion) and official transcripts from all previous colleges.

Requirements after Provisional Acceptance:
A.   CURRENT TB TEST (according to program requirements) or DECLINATION WITH X-RAY RESULTS.
B.   MEDICAL EXAMINATION – with satisfactory results.
C.   DOCUMENTATION OF UP-TO-DATE IMMUNIZATIONS.
D.   SATISFACTORY 10-PANEL DRUG SCREEN.
E.   SATISFACTORY FINGERPRINT/CRIMINAL BACKGROUNDCHECK.
F.   CURRENT CPR CARD – From either American Heart Association (BCLS-C) for Healthcare Provider (Basic Cardiac Life Support), or the American Red Cross CPR for the Professional Rescuer.

Prerequisite Courses		Credit Hours
	●+*ENC1101, English Composition I	3
	+*MTB1371, Health Math (or approved higher level math course)	2
	#*HSC1531, Medical Terminology	2
	+* BSC1020, Human Biology (or BOTH *BSC2085 and *BSC2086)	3
Corequisite Courses		
	+*BSC1020L, Human Biology Lab (or BOTH *BSC2085L and *BSC2086L)	1
	*CGS1570, Microcomputer Applications	3
	HSC1004, Overview of Health Professions	3
Core Courses		
	+#*PTN1101, Introduction to Pharmacy Technician Practice	3
	+#*PTN1121, Pharmacological Agents I	3
	+#*PTN1102, Pharmacy Calculations for Technicians	3
	+#*PTN1122, Pharmacological Agents II	3
	+#*PTN1131, Applied Pharmacy Operations I	3
	+#*PTN1131L, Applied Pharmacy Operations I Lab	1
	+#*PTN1940, Pharmacy Technician Practicum	7
TOTAL DEGREE HOURS		40

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

PHYSICAL THERAPIST ASSISTANT
(PTAA-AS/PTA-AS)

AREA OF CONCENTRATION: Upon successful completion of the prescribed course of study, students will receive an Associate in Science degree. Graduates are eligible to take the Physical Therapist Assistant licensing examination. Graduates wishing to be employed in Florida are required, under Chapter 486, Florida State Physical Therapy Practice Act, to be licensed.

The Physical Therapist Assistant program is an intensive, full-time program that is designed to be completed in two years. Once selected into the program the courses must be taken sequentially and are offered only once per year. The program is accredited by the American Physical Therapy Association Commission on Accreditation in Physical Therapy Education.

The Physical Therapist Assistant program is a selective admission, limited enrollment program. Admission to Gulf Coast State College does not imply acceptance into the Physical Therapist Assistant program. Before beginning this program of study, students should obtain a program application packet from the Division of Health Sciences, containing a current listing of admission and course requirements.

Application Process:
A.   Admission to Gulf Coast State College must be granted prior to applying to the Physical Therapist Assistant program.
B.   Demonstration of College-level English, Reading, and Math/Algebra competency via methods detailed in PTA application / information packet.
C.   Official high school transcript or GED and official college transcripts from each college or university attended must be sent to Enrollment Services and evaluated by that office. A minimum GPA of "C" or 2.0 is required. Preference is given to those students with a science background and a GPA of 2.8 or better.
D.   A completed health sciences application must be submitted, including technical standards and prerequisites. The satisfaction of minimum requirements does not automatically guarantee admission. Admission is competitive among eligible applicants. Final selections will be made by the Admissions Committee based on an objective point system computed from the admissions criteria.
E.   Applications should be completed by the spring deadline as published in the PTA program application packet. One class per year will be admitted the following fall semester. Students not admitted for the year in which they applied must reapply if they wish to be considered for entry in a subsequent year. (There is no waiting list.)
F.   Program Policies: Specific program policies can be found in the Student Handbook for Physical Therapist Assistant Students.
Requirements after Conditional Acceptance:
• Satisfactory fingerprint / criminal background check.
• Completion of physical examination (with satisfactory results), including copy of immunization form.
• Satisfactory 10-panel drug screen

Communications Area		**Credit Hours**
	•+*ENC1101, English I	3
Humanities Area		
	See General Education Requirement	3
Mathematics Area		
	+* Approved college-level mathematics (MAC/MGF/STA)	3
Natural Sciences Area		
	+*BSC2085, Anatomy and Physiology I	3
	*BSC2085L, Anatomy & Physiology I Lab	1
	+*BSC2086, Anatomy & Physiology II	3
	*BSC2086L, Anatomy & Physiology II Lab	1
Social Sciences Area		
Behavioral Sciences	•PSY2012	3
Major Courses		
	*#HSC1531, Medical Terminology	2
	+*#PHT1000, Intro. to Physical Therapy	2
	+*#PHT1102, Applied Anatomy for PTAs	2
	+*#PHT1200, Basic Skills in Patient Care	2
	+*#PHT1200L, Basic Skills in Patient Care Lab	2

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

	+*#PHT1124, Functional Human Motion	2
	+*#PHT1124L, Functional Human Motion Lab	2
	+*#PHT1131, Assessment, Measure, Document	1
	+*#PHT1131L, Assessment, Measurement and Documentation Lab	2
	+*#PHT1220, Intro. to Therapeutic Exercise	3
	+*#PHT1220L, Therapeutic Exercise Lab	2
	+*#PHT2224, Therapeutic Interventions I: Medical/Surgical Disabilities	2
	+*#PHT2224L, Therapeutic Interventions I Lab	1
	+*#PHT2211, Therapeutic Modalities	2
	+*#PHT2211L, Therapeutic Modalities Lab	2
	+*#PHT2225, Therapeutic Interventions II: Orthopedic Disabilities	3
	+*#PHT2225L, Therapeutic Interventions II Lab	2
	+*#PHT2226, Therapeutic Interventions III: Neurological Disabilities	3
	+*#PHT2226L, Therapeutic Interventions III Lab	2
	+*#PHT2801, PTA Clinical Practice I	3
	+*#PHT2810, PTA Clinical Practice II	5
	*#PHT2820, PTA Clinical Practice III	5
	+*#PHT2931, Seminar	2
TOTAL DEGREE HOURS		**74**

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

PNEUMATICS, HYDRAULICS AND MOTORS FOR MANUFACTURING
COLLEGE CREDIT CERTIFICATE
(PHM-CCC)

AREA OF CONCENTRATION: This certificate prepares students for engineering technology support positions dealing with facilities operations and maintenance in high tech production, manufacturing, distribution, and engineering research and development facilities.

Courses		Credit Hours
	+#ETS2700C, Electro-Hydraulics & Pneumatics	3
	+#ETS2542C, Programmable Logic Controllers	3
	+#ETS2535C, Process Control and Instrumentation	3
	+#ETS2511C, Motors and Motion Control	3
TOTAL DEGREE HOURS		12

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

PRACTICAL NURSE CERTIFICATE
(PNA-VC/PHRS-VC)

AREA OF CONCENTRATION: This program is designed to help the student qualify to obtain licensure in the State of Florida. The program consists of 1,350 hours of study. Upon completion of the program, the student will be eligible to take the NCLEX-PN (National Council Licensure Examination for Practical Nurses). The first two courses of this program qualify students to take the Certified Nursing Assistant examination. This program is available only at the Gulf/Franklin Center in Port St. Joe, Florida.

In this program the practical nurse student is prepared to give patient care under the supervision of a registered nurse or physician. The student will be exposed to skills and have knowledge necessary to give safe and effective care to patients in a variety of settings.

The Practical Nursing program is a selective admission, limited enrollment program. Admission to Gulf Coast State College does not imply acceptance into the Practical Nursing program.

APPLICATION PROCESS:

- Apply to Gulf Coast State College Office of Enrollment Services.
- Submit an application to the Practical Nurse program at the Gulf/Franklin Center.
- Submit official high school and any college transcripts to Enrollment Services.
- Submit active, satisfactory scores on the TABE examination or equivalent CPT scores. TABE tests are given at the Gulf/Franklin Center and the main campus. Successful completion of TABE is required for graduation.
- CNAs must submit a copy of certification to the Gulf/Franklin Center.

After meeting the above criteria, the applicant should contact the Gulf/Franklin Center to schedule an appointment with the Assistant Nursing Coordinator for advising and review of the application folder for completeness.

Applications must be completed and submitted by the last working day in April for the summer class. Due to the selection process, meeting minimum requirements does not automatically guarantee admission.

It is the responsibility of the student to maintain communication with the program advisor to ensure that the application folder is complete and up-to-date with current admission requirements.

Selection of Students: During the first week in May, the selection committee will review all completed applications and make selections for the class. Students are selected based on admission index criteria. Those residing within the service area will be given additional consideration. Applicants will be notified by mail of selection status.

Requirements After Conditional Acceptance:

- Satisfactory fingerprint/criminal background check.
- Copy of current Certification in CPR for healthcare providers.
- Completion of physical examination (with satisfactory results), including copy of immunization form.

Applications are available from the Gulf/Franklin Center, Port St. Joe, and from the Health Sciences Division, Panama City Campus.

Courses		Credit Hours
	=+*HCP0001, Health Careers Core **	3.0 v
	=+*HCP0120C, Basic Nursing Care **	2.5 v
	=+*PRN0001C, Fundamentals of Nursing Care	9.0 v
	=+*PRN0022, Structure and Function	2.0 v
	=+*HSC0530, Medical Terminology	0.5 v
	=+*PRN0030C, Introduction to Pharmacology & Medications Admin w/Safe Dose Calc	2.5 v
	=+*PRN0023, Life Span	0.5 v
	=+*PRN0110C, Pediatric Nursing	3.0 v
	=+*PRN0400, Mental Health Concepts	0.5 v
	=+*PRN0440, Community Health Concepts	0.5 v

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

	=+*PRN0381C, Medical Surgical Nursing	7.0 v
	=+*PRN 0383C, Medical Surgical Nursing II	10.0 v
	=+*PRN0100C, Maternal/Newborn Nursing	4.0 v
TOTAL CERTIFICATE CREDITS		45.0v

**Vocational credit is awarded to the student if completed prior to entering the program. If accepted, the student will not have to repeat these courses. Upon completion of these courses in the program, the student is eligible to sit for the state Certified Nursing Assistant examination.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

PRIVATE SECURITY OFFICER
(PSO-VC)

AREA OF CONCENTRATION: This program is designed to meet the course work requirements of the Department of Agriculture for class D license "Unarmed Security Guard" and class G license "Armed Security Guard."

Courses		Credit Hours
	SCY0501, Unarmed Security Guard	1.5v
	SCY0503C, Armed Security Guard	1.0v
TOTAL DEGREE HOURS		2.5v

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

RADIOGRAPHY
(RADA-AS/RAD2-AS)

AREA OF CONCENTRATION: The purpose of this program is to prepare students to become registered radiographers, following successful completion of the prescribed courses of study and clinical practice. Graduates who pass the American Registry of Radiologic Technologist's examination will be eligible to work as radiographers in various health care facilities such as hospitals, doctors' offices and sports medicine clinics. The duration of the program is approximately 24 months. Courses must be completed in the prescribed sequence. In addition to general education requirements, students will learn to safely perform diagnostic radiographic examinations.

The Radiography program is a limited access program. A selective admissions policy with specific selection criteria is utilized in order to select the most qualified applicants. The strength of the applicant pool varies year-to-year, with the best qualified applicants receiving first consideration. It is the applicant's responsibility to inquire about these specific admission and selection criteria and to ensure that all required documents are received on campus prior to the deadline of May 15.

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences, containing a current listing of admission and course requirements.

Admission Requirements:

Application to Radiography program which includes:
1.   Apply for admission to Gulf Coast State College.
2.   Submit program application form including the Technical Standards form.
3.   Completion of ENC1101, MAC1105 or equivalent, BSC2085, BSC2085L, BSC2086, BSC2086L with a grade of "C" or better.
4.   Cumulative Grade Point Average (GPA) or 2.5 or higher.
5.   Submit official high school transcript or copy of GED scores to Enrollment Services.
6.   Submit all official college transcripts and have evaluation completed by Enrollment Services.

The program begins in the fall semester each year. The deadline for submission of the completed application package is May 15. The program employs a selective admission process whereby applicants are chosen based on a composite admissions score. Applicants who meet all minimum requirements for admission are evaluated for their preparedness to enter the program. The following areas are considered:

1.   Final course grades in ENC1101, MAC1105 or equivalent, BSC2085, BSC2085L, BSC2086, BSC2086L.
2.   Cumulative Grade Point Average.
3.   Medical volunteer/work experience.
Program policies regarding retention, dismissal, and readmission of students are found in the *Handbook for Radiography Students*.

Requirements after conditional acceptance:
1.   Satisfactory fingerprint / criminal background check through Gulf Coast State College.
2.   Copy of current CPR certification. Either the American Heart Association Health Care Provider Life Support Course or the American Red Cross CPR for the Professional Rescuer is acceptable.
3.   Completion of physical examination with satisfactory results signed by the physician.
4.   Copy of current Immunization records to include Hepatitis B series or signed waiver and TB test according to program requirements.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		
	See General Education Requirement	3
Mathematics Area		
	+* Approved college-level mathematics (MAC/MGF/STA)	3
Natural Sciences Area		
	+*BSC2085, Anatomy and Physiology I	3
	*BSC2085L, Anatomy & Physiology I Lab	1
	+*BSC2086, Anatomy & Physiology II	3
	*BSC2086L, Anatomy & Physiology II Lab	1
Social Sciences Area		
Behavioral Sciences	•*PSY2012 or •*SYG2000 Psychology/Sociology	3

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

Major Courses		
	+*#RTE1000, Intro. to Diagnostic Imaging	2
	+*#RTE1111C, Intro to Patient Care	2
	+*# RTE1503, Radiographic Procedures/Positioning I	3
	+*#RTE1503L, Radiographic Procedures/Positioning Lab I	1
	+*#RTE1804, Clinical Education I	2
	+*#RTE1418, Prin. of Radiographic Exposure I	3
	+*#RTE1513, Radiographic Procedures/Positioning II	2
	+*#RTE1513L, Radiographic Procedures/Positioning Lab II	1
	+*#RTE1814, Clinical Education II	3
	+*#RTE1457, Prin. of Radiographic Exposure II	3
	+*#RTE1457L, Prin. of Radiographic Exposure II Lab	1
	+*# RTE1523, Radiographic Procedures/Positioning III	2
	+*#RTE1523L, Radiographic Procedures/Positioning Lab III	1
	+*#RTE1824, Clinical Education III	4
	+*#RTE2385, Radiobiology and Radiation Protection	3
	+*#RTE2782, Radiographic Pathology	2
	+*#RTE2834, Clinical Education IV	5
	+*#RTE2563, Advanced Medical Imaging	3
	+*#RTE2844, Clinical Education V	5
	+*#RTE2854, Clinical Education VI	2
	+*#RTE2061, Radiography Seminar	2
	HSC1531, Medical Terminology	2
	CGS1570, Microcomputer Applications	3
TOTAL DEGREE HOURS		**77**

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

RAPID PROTOTYPING SPECIALIST
COLLEGE CREDIT CERTIFICATE
(RAPD-CCC)

AREA OF CONCENTRATION: This certificate prepares students for initial employment with an occupational title as rapid prototyping, digital manufacturing specialist, industrial designers, product designers, or mechanical drafters, technicians, or detailers in various specialized areas of industry that use digital design and modeling and rapid prototyping, direct digital manufacturing or to provide supplemental training for persons previously or currently employed in these occupations.

Courses		Credit Hours
	+#ETD2357C, AutoDesk Inventor	3
	#ETD2364C, Introduction to Solidworks	3
	+#ETD2368C, Advanced Solidworks	3
	+#ETD2369C, Solidworks Advanced Applications	3
TOTAL DEGREE HOURS		12

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

RESPIRATORY CARE (THERAPY)
(RESA-AS/RESP-AS)

AREA OF CONCENTRATION: The purpose of this program is to prepare students to become advanced level respiratory therapists by obtaining the Registered Respiratory Therapist (RRT) credential. Program graduates will be eligible for licensure required for the practice of respiratory therapy in any state nationally. Respiratory therapists are employed in hospitals, rehabilitation facilities, sleep disorders clinics, pulmonary function labs, hyperbaric chambers, skilled nursing facilities, and home health agencies.

This program is accredited by the Commission on Accreditation for Respiratory Care (COARC).

The Respiratory Therapy program is a selective admission, limited enrollment program. Admission to Gulf Coast State College does not imply acceptance into the Respiratory Therapy program. Students interested in learning more about the Respiratory Therapy Program should obtain a program application packet from the Division of Health Sciences containing a *current* listing of admission and course requirements.

ADMISSION PROCESS:

1.   Apply for admission to GCSC and request official transcripts from previous high school, GED, colleges, and universities attended.
2.   Take the Placement Test for Reading, Arithmetic, Algebra, and English if required (check with advisor). Completion of college mathematics or English will satisfy this requirement (see advisor).
3.   Complete the Health Science Application for the Respiratory Therapy Program.
4.   Schedule an interview with a primary advisor or submit a written statement detailing your interest in becoming a Respiratory Therapist.

Requirements after Provisional Acceptance and before Classes Begin:
1.   *Satisfactory fingerprint / criminal background check.*
2.   *Copy of current certification in CPR for Healthcare Providers.*
3.   *Completion of HIV/AIDS, Infection Control, Prevention of Medical Errors, and Hospital Orientation.*
4.   *Completion of physical examination (with satisfactory results), including copy of immunization form.*
5.   *Completion of shadowing experience with a Registered Respiratory Therapist (shadowing form must be signed and turned into program coordinator).*

Selection: Applications are accepted throughout the year. Consideration for acceptance will begin in January and continue until the class is filled. New classes begin in the fall of each year.

The application deadline is the first business day in June; the respiratory therapy program accepts up to sixteen students per year. There are no course prerequisites for acceptance into the program but preference is given to those students having completed Anatomy and Physiology courses and other general education courses required to receive an Associates of Science Degree.

Preference: Applicants having completed any of the following courses with a "C" or better will have selection preference: BSC2085, BSC2085L, BSC2086, BSC2086L, and HSC1531.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		
	See General Education Requirement	3
Mathematics Area		
	+*Approved college-level mathematics (MAC/MGF/STA)	3
Natural Sciences Area		
	+*BSC2085, Anatomy and Physiology I	3
	*BSC2085L, Anatomy & Physiology I Lab	1
	+*BSC2086, Anatomy & Physiology II	3
	*BSC2086L, Anatomy & Physiology II Lab	1
Social Sciences Area		
Behavioral Sciences	•*PSY2012 or •*SYG2000 Psychology/Sociology	3
Major Courses		

+ Prerequisites and/or corequisites required. See course descriptions.
\# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

	#HSC1531, Medical Terminology	2
	*#RET1004, Introduction to Science I	1
	*#RET1005, Respiratory Microbiology	1
	+*#RET1024, Respiratory Therapy I	1
	+*#RET1024L, Respiratory Therapy I Lab	3
	+*#RET1264, Respiratory Therapy II	2
	+*#RET1264L, Respiratory Therapy II Lab	3
	*#RET1295, Clinical Respiratory Medicine I	1
	*#RET1350, Pulmonary Pharmacology I	1
	*#RET1483, Pulmonary Assessment I	2
	*#RET1485, Pulmonary Physiology	2
	+*#RET1832, Respiratory Therapy Clinical I	1
	+*#RET1833, Respiratory Therapy Clinical II	2
	*#RET1930, Selected Topics Seminar I	1
	*#RET1934, Selected Topics Seminar V	1
	*#RET1935, Selected Topics Seminar VI	1
	*#RET1936, Selected Topics Seminar VII	1
	*#RET2007, Pulmonary Pharmacology II	3
	*#RET2234, Critical Thinking in Resp. Care	1
	+*#RET2280, Respiratory Care IV	2
	+*#RET2280L, Respiratory Care IV Lab	3
	*#RET2292, Clinical Respiratory Medicine II	1
	*#RET2297, Pulmonary Assessment II	1
	+*#RET2714, Respiratory Care V	2
	+*#RET2714L, Respiratory Care V Lab	2
	+*#RET2834, Respiratory Therapy Clinical III	2
	+*#RET2835, Respiratory Therapy Clinical IV	2
	+*#RET2836, Respiratory Therapy Clinical V	3
	+*#RET2878, Respiratory Care III	2
	+*#RET2878L, Respiratory Care III Lab	2
Electives		3
TOTAL DEGREE HOURS		76

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

SOFTWARE AND DATABASE DEVELOPER
(SDD-AS)

AREA OF CONCENTRATION: Individuals pursuing an Associate of Science degree in the Software and Database Developer program want to begin or advance a career in software/database development. Graduates from this program seek positions as software developers, quality assurance specialists, database specialists and systems analysts. This program focuses on programming logic, in demand programming languages, database programming and design and analysis associated with creating software applications. A strong emphasis is placed on working collaboratively in a team environment, communicating effectively, and cultivating good software development skills.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		
	See General Education Requirement	3
Mathematics Area		
	+*MAC 1105, College Algebra	3
Social Sciences Area		
Behavioral Sciences	•*PSY2012 or •*SYG2000 Psychology/Sociology	3
History	EUH 1001, Western Civilization II	3
Major Courses		
	+*COP1000, Intro to Programming Logic	3
	COP2700, Data Structure (SQL)	3
	+CIS2321, System Analysis and Design	3
	CGS1103, IT Project Management (Project +)	3
	CGS 1570, Microcomputer Applications	3
	CTS1650, Network Fundamentals	3
	CIS 2949, Information Technology COOP Education	3
	Select 6 credits from the following courses:	
	+*COP2224, C++ Programming I	3
	+*COP 2250, Java Programming I	3
	+*COP2360, Intro to C# Programming	3
	Select 6 credits from the following courses:	
	+*COP 2228, C++ Programming II	3
	+*COP 2251, Java Programming II	3
	+*COP2362, Advanced C# Programming	3
	Select 12 credits from the following courses:	
	Web Applications Programming	
	+*COP2842, PhP My SQL	3
	DIG2100, Web Design I	3
	+DIG2101, Web Design II	3
	+#COP2840, Internet Programming	3
	Database Development	
	CTS2441, Oracle Database Administration	3
	CTS2440, Oracle SQL and PL/SQL	3
	CTS2445, Advanced Oracle PL/SQL Programming	3
	Mobile Programming	
	+*COP2657, Intro to SmartPhone Programming	3
	+*COP2654, iPhone Programming	3
	+*COP2660, Programming for Mobile Devices: Android	3
TOTAL DEGREE HOURS		60

Subject specific cooperative education may be substituted with permission of advisor.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

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SONOGRAPHY, DIAGNOSTIC MEDICAL
(DMA-AS/DMS-AS)

AREA OF CONCENTRATION: The program is designed to prepare the student for employment as an entry-level sonographer. The sonographer is skilled by academic & clinical training to perform ultrasound examinations under the supervision of a qualified physician. Students should complete the prerequisite courses. Students are encouraged to complete as many of the general education courses as possible prior to entering the Sonography program.

The program curriculum includes all courses required for an Associate of Science Degree. A minimum grade of C must be achieved in all courses required for program admission. The program begins in the spring semester each year. The duration of the program is 24 months for the Associate of Science Degree (77 credit hours).

The Diagnostic Medical Sonography program is a limited access program. A selective admissions policy with specific selection criteria is utilized in order to select the most qualified applicants. The strength of the applicant pool varies year-to-year, with the best qualified applicants receiving first consideration. It is the applicant's responsibility to inquire about these specific admission and selection criteria and to ensure that all required documents are received on campus prior to the deadline in September.

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences, containing a current listing of admission and course requirements.

After being accepted in the Sonography Program, the courses in the curriculum are progressive in nature, with one course building on the preceding course. Because of this progressive relationship, all courses in a term must be completed with a grade of "C" (75) or better in order to continue to the next term. If a student achieves less than a "C" (75) or withdraws from any course that is required for the Associate of Science Degree, the student will not be allowed to continue in the program. The student may re-apply to the program. The application deadline for each class is in September.

Application process:
1. Application to Gulf Coast State College.
2. Submit high school transcripts and college transcripts to Enrollment Services and have a transcript evaluation <u>prior</u> to the application deadline.
3. Submit a Sonography program application including the technical standards form and a letter of intent. The application package is available from the Health Sciences Division.
4. Complete with a "C" or higher, the following prerequisites: BSC 2085 and BSC 2085L (Anatomy and Physiology I lecture and lab, PHY 1020 or approved physics course, MAC1105 or higher level math course; and English 1101.
5. Contact a sonography advisor.

Requirements after conditional acceptance:
1. Satisfactory fingerprint / criminal background check.
2. Copy of Current CPR certification for Health Care Provider.
3. Completion of physical examination (with satisfactory results), including copy of immunization form.
4. Copy of immunization records to include Hepatitis B series or signed waiver and TB test according to program requirements.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		
	See General Education Requirement	3
Mathematics Area		
	+*Approved college-level mathematics (MAC/MGF/STA)	3
Natural Sciences Area		
	+BSC2010, Biology for Science Majors I (or BSC2085/L, BSC2086/L)	3
Social Sciences Area		
Behavioral Sciences	•*PSY2012 or •*SYG2000 Psychology/Sociology	3
Core Requirement	•*PHY1020 or Approved Physics course	3
Major Courses		
	+#*SON1211, Medical Sonography Physics	3

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+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

	+#*SON1000, Introduction to Sonography	2
	+#*SON1100, Prin/Protocols of Sono Imaging	2
	+#*SON1100L, Prin/Protocols of Sono Imaging Lab	2
	+#*SON1170, Sonography Circulatory System	2
	+#*SON1170L, Sonography Circulatory System Lab	1
	+#*SON1214, Practical Aspects of Sonography	2
	+#*SON2220, Advanced Sonographic Imaging	1
	+#*SON2171, Intro to Vascular Sonography	3
	+#*SON2171L, Intro to Vascular Sonography Lab	1
	+#*SON 2175, Vascular Sonography	3
	+#*SON1111, Abdominal Sonography I	3
	+#*SON1112, Abdominal Sonography II	3
	+#*SON1121, OB/GYN Sonography I	3
	+#*SON1122, OB/GYN Sonography II	3
	+#*SON1052, Sonography & Pathology	4
	+#*SON1144, Superficial Structures	2
	+#*SON2113, Sono Cross Sectional Anatomy	4
	+#*SON1804, Clinical Education I	2
	+#*SON1814, Clinical Education II	3
	+#*SON1824, Clinical Education III	3
	+#*SON 2834, Clinical Ed IV	4
	+#*SONXXXX, Ultrasound Guided Interventional Procedures and Techniques	1
	+#*SON2061, Sonography Review	2
TOTAL DEGREE HOURS		77

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

STAGE TECHNOLOGY
COLLEGE CREDIT CERTIFICATE
(STGE-CCC)

AREA OF CONCENTRATION: This program provides students with the foundation skills required to begin working in a variety of positions in the live entertainment industry, both regionally and beyond. The program focuses on stagecraft, lighting, and sound production for theatre, concerts, dance, and industrial theatre. All courses in this program are applicable to the college's Theatre and Entertainment Technology Associate in Science degree.

Courses		Credit Hours
	+*TPA1210, Stagecraft I	3
	+*TPA1211, Stagecraft II	3
	TPA1220, Introduction to Stage Lighting	3
	*TPA1340, Drafting for the Theatre I	3
	TPA2212, Sound for the Stage	3
	+*TPA1290L, Technical Theatre Lab I	2
TOTAL DEGREE HOURS		17

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

SURGICAL FIRST ASSISTANT
COLLEGE CREDIT CERTIFICATE
(SFA-CCC)

AREA OF CONCENTRATION: The purpose of this seven-semester program is to educate students in the specialty of Surgical First Assisting and promote knowledge based critical thinking in the safe practice of surgical technology as an entry level surgical technologist and first assistant. Upon completion of all core graduation requirements, graduates of this program will receive a College Credit Certificate (CCC) in Surgical First Assisting. Successful completion of the program will allow graduates to apply to take the national certifying examination provided all the eligibility requirements currently established are met. Students may choose to complete the requirements for an Associate of Science (AS) by completing the additional General Education requirements and six specialty credit hours for either option I, II, or III.

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences containing a current listing of admission and course requirements.

Prerequisite Courses		Credit Hours
	+*BSC2085, Anatomy and Physiology I	3
	+*BSC2085L, Anatomy and Physiology I Lab	1
	+*BSC2086, Anatomy and Physiology II	3
	+*BSC2086L, Anatomy and Physiology II Lab	1
	#*HSC1531, Medical Terminology	2
	#*HSC1000, Orientation to Perioperative Services	3
	#*HSC1000L, Orientation to Periop Services Lab	1
	#*HSC2025, Microbiology for Perioperative Serv	3
Major Courses		
	#+*STS1302, Introduction to Surgical Technology	4
	#+*STS1302L, Introduction to Surgical Tech. Lab/Clin.	2
	#+*STS1310, Surgical Tech & Procedures	4
	#+*STS1310L, Surgical Tech & Proc Lab/Clinical	2
	#+*STS1340, Pharmacology and Anesthesia	2
	#+*STS2952, SA Scrub Role Portfolio	1
	#+*STS2943, SA Scrub Role Clinical	3
	#+*STS2305, Operative Anatomy & Pathophys I	1
	#+*STS2306, Operative Anatomy & Pathophys II	1
	#+*STS2330, Principles of Surgical Assisting	3
	#+*STS2330L, Principles of SA Lab	1
	#+*STS2331, Core Surgical Procedures I	3
	#+*STS2332, Specialty Surgical Procedures II	3
	*STS2361, Professional Skills for the OR Team	1
	*STS2365, The Art of Teamwork in Surgery	1
	#+*STS2331L, Surgical Assisting Simulation Lab I	1
	#+*STS2332L, Surgical Assisting Simulation Lab II	1
	#+*STS2950, Surgical Assisting Portfolio I	1
	#+*STS2951, Surgical Assisting Portfolio II	1
	#+*STS2370, Surgical Assisting Clinical I	3
	#+*STS2371, Surgical Assisting Clinical II	3
TOTAL CERTIFICATE HOURS		59

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

APPLICATION PROCESS:
A. Apply for admission to Gulf Coast State College.
B. Submit the Surgical First Assistant program application forms.
C. Take the College Placement Test as required in the Surgical First Assistant selection package.
D. Submit official high school or GED transcripts to Enrollment Services.
E. Submit official transcripts from all previous colleges to Enrollment Services for evaluation.
F. Have two reference forms mailed to the program director.
G. Request a transcript analysis with course instructor (Certified Surgical Technologist Evaluation for External Credit).
I. Submission of completed documentation of immunization status as required for clinical entry prior to enrollment in HSC1000L.
J. Register and successfully complete the Prerequisite Courses with a grade of "C" or better. There is no guarantee of automatic transition to the surgical assistant program. Acceptance into the program is based on overall performance.

Requirements Upon Entering the Prerequisite Class HSC1000:
1. Satisfactory fingerprint/criminal background check.
2. Copy of current Certification in CPR by the American Heart Association or Red Cross Health Care Provider.
3. Drug Screen or other requirements as outlined by the clinical sites.
4. Proof of high school graduation or equivalent filed in Enrollment Services.
5. Submit proof of age – 18 years or older on or before the clinical start date for the applied class year.

Minimum Requirements for Admission to the Core Program: Listed below are the specific requirements for admission to this program. It should be understood, however, that only the minimum requirements are given and that admission to this program is a selective process. The satisfaction of minimum requirements does not automatically guarantee admission. When space is limited, preference may be given to students within the community college's assigned district.
1. Recommended Prerequisites: Satisfactory completion with a grade of "C" or higher in BSC 2085, BSC2085L, BSC2086, BSC2086L, HSC1531, HSC1000, HSC1000L, and HSC2025. Preference will be given to students who have completed the recommended prerequisites or are currently enrolled with a satisfactory grade.
2. Complete the application process satisfactorily as outlined in the selection package including requirements specified by the clinical site.
3. Completion of Physical Examination with satisfactory results.
4. Students who are validated as currently certified as a surgical technologist may apply for entry. The classes are online with the exception of STS2330L Lab which will be held in April, July, and/or September each year.

GCSC Articulation: Up to 40 credits including prerequisites and the 1st year core surgical technology classes can be granted to those who are graduates of an accredited surgical technology program and/or nationally certified as a surgical technologist by the National Board of Surgical Technologists and Surgical Assistants towards a CCC and/or AS Degree in Surgical Assisting. This includes the 1st year course work previously covered as a part of their surgical technology program of study. All students must complete the 2nd Year surgical assistant core classes (19 credit hours) either through completion of the GCSC surgical assisting training or through proof of certification as a certified surgical first assistant towards the CCC or AS Degree. To be eligible to graduate from GCSC, the student will have to complete at least 25% of the entire program with Gulf Coast State College which is a minimum of 15 credit hours for the CCC or 19 credit hours for the AS Degree.

Graduation and Retention Requirements: For the Surgical First Assistant Program, students must earn a grade of "C" or higher in each course. See surgical first assistant student handbook for further information regarding graduation, retention, dismissal, readmission, and transfer credit policies.

Recommended Degree Plan: Please refer to the degree plan to determine what classes are typically offered each term. This represents a student plan of approximately seven semesters for a College Credit Certificate (CCC). However, the prerequisite and core program courses with the HSC or STS prefix are only offered during the term indicated.

Summer I:
    BSC2085, Anatomy and Physiology I, 3 crs.
    BSC2085L, Anatomy and Physiology I Lab, 1 cr.
    HSC1531, Medical Terminology, 2 crs.

Fall I:
    BSC2086, Anatomy and Physiology II, 3 crs.
    BSC2086L, Anatomy and Physiology II Lab, 1 cr.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

HSC1000, Orientation to Perioperative Services, 3 crs.
HSC1000L, Orient to Periop Services Lab, 1 cr.
HSC2520, Microbiology for Perioperative Services, 3 crs.

Spring I A:
STS1340, Pharmacology & Anesthesia, 3 crs.

Spring I B:
STS1302, Introduction to Surgical Technology, 6 crs.
STS1302L, Introduction to Surgical Tech. Lab, 2 crs.
Spring I C/Summer:
STS1310, Surgical Tech & Procedures for SA, 6 crs.
STS1310L, Surg Tech & Procedures for SA Lab, 3 crs.

Summer II:
STS2330, Principles of Surgical Assisting, 3 crs.
STS2330L, Principles of SA Lab/Clinical, 4 crs.
STS2943, SA Scrub Role Clinical, 3 crs.
STS2952, SA Scrub Role Portfolio, 1 cr.
STS2361, The Art of Teamwork in Surgery, 1 cr.

Fall II:
STS2305, Operative Anatomy & Pathophys. I, 1 cr.
STS2331, Core Surgical Procedures I, 3 crs.
STS2331L, Surgical Assisting Lab I, 1 cr.
STS2370, Surgical Assisting Clinical I, 3 crs.
Humanities, 3 crs.

Spring I:
STS2306, Operative Anatomy & Pathophys. II, 1 cr.
STS2332, Specialty Surgical Procedures II, 3 crs.
STS2332L, Surgical Assisting Lab II, 1 cr.
STS2951, Surgical Assisting Portfolio II, 1 cr.
STS2365, Professional Skills for the OR Team, 1 cr.
STS2371, Surgical Assisting Clinical II, 3 crs.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

SURGICAL FIRST ASSISTING
ASSOCIATE IN SCIENCE
(SFA2-AS)

AREA OF CONCENTRATION: The purpose of this two-year, dual certification, seven-semester program is to promote knowledge based critical thinking in safe practice and educate students in the specialty of surgical first assisting and surgical technology as an entry level surgical technologist and first assistant. Upon completion of all graduation requirements, graduates of this program will receive an Associate in Science Degree. Successful completion of the program will allow graduates to apply to take the national certifying examination provided all the eligibility requirements currently established are met.

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences containing a current listing of admission and course requirements.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		
	See General Education Requirement for list of approved classes **Note: Biomedical Ethics Recommended**	3
Mathematics Area		
	+*Approved college-level mathematics (MAC/MGF/STA)	3
Natural Sciences Area		
	+*BSC2085, Anatomy and Physiology I	3
	+*BSC2085L, Anatomy and Physiology I Lab	1
	+*BSC2086, Anatomy and Physiology II	3
	+*BSC2086L, Anatomy and Physiology II Lab	1
Social Sciences Area		
Behavioral Sciences	•*PSY2012 or •*SYG2000 Psychology/Sociology	3
Prerequisite Courses		
	#*HSC1531, Medical Terminology	2
	#*HSC1000, Orientation to Perioperative Services	3
	#*HSC1000L, Orientation to Perioperative Services Lab	1
	#*HSC2520, Microbiology for Perioperative Services	3
Major Courses		
	#+*STS1302, Introduction to Surgical Technology	4
	#+*STS1302L, Introduction to Surgical Tech. Lab/Clin	2
	#+*STS1310, Surgical Tech & Procedures	4
	#+*STS1310L, Surgical Tech & Procedures Lab/Clinical	2
	#+*STS1340, Pharmacology & Anesthesia	2
	#+*STS2952, SA Scrub Role Portfolio	1
	#+*STS2943, SA Scrub Role Clinical	3
	#+*STS2305, Operative Anatomy and Pathophys I	1
	#+*STS2306, Operative Anatomy and Pathophys II	1
	#+*STS2330, Principles of Surgical Assisting	3
	#+*STS2330L, Principles of Surg. Assist. Lab	1
	#+*STS2331, Core Surgical Procedures I	3
	#+*STS2332, Specialty Surgical Procedures II	3
	*STS2361, The Art of Teamwork in Surgery	1
	#+*STS2365, Professional Skills for the OR Team	1
	#+*STS2331L, Surgical Assisting Simulation Lab I	1
	#+*STS2332L, Surgical Assisting Simulation Lab II	1

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

	#+*STS2950, Surgical Assisting Portfolio I	1
	#+*STS2951, Surgical Assisting Portfolio II	1
	#+*STS2370, Surgical Assisting Clinical I	3
	#+*STS2371, Surgical Assisting Clinical II	3
	Choose one (1) of the following courses (3 crs.) to complete the program requirements:	
	+*EDF1005, Introduction to Education	3
	+*EDF2085, Teaching Diverse Populations	3
	+*EVT2060, Basics of Education for the Tech Expert	3
	+*SPC1608, Introduction to Public Speaking	3
	+*CLP1001, Human Relations	3
	#MNA1100, Human Relations in Management	3
	+*SLS1201, Personal Development	3
	+*SLS2264, Leadership Development Seminar	3
	+*STS2367, Management in Healthcare	3
	+*CGS1570, Microcomputer Applications	3
	+*GEB1011, Introduction to Business	3
	*MAR2011, Marketing	3
	+*QMB1001, College Business Math	3
TOTAL DEGREE CREDITS		74

APPLICATION PROCESS:
A. Apply for admission to Gulf Coast State College.
B. Submit the Surgical First Assistant program application forms.
C. Take the Placement Test as required in the Surgical First Assistant selection package.
D. Submit official high school or GED transcripts to Enrollment Services.
E. Submit official transcripts from all previous colleges to Enrollment Services for evaluation.
F. Have two reference forms mailed to the program director.
G. Request a transcript analysis with Enrollment Services and the course program coordinator (Certified Surgical Technologist and/or Certified Surgical First Assistant Evaluation for External Credit).
H. Submission of completed documentation of immunization status as required for clinical entry prior to enrollment in HSC1000L.
I. Register and successfully complete the Prerequisite Courses with a grade of "C" or better. There is no guarantee of automatic transition to the surgical assistant program. Acceptance into the program is based on overall performance.

Requirements upon Entering Prerequisite Class HSC1000:
1. Satisfactory fingerprint/criminal background check.
2. Copy of current Certification in CPR by the American Heart Association or Red Cross Health Care Provider based on the International Liaison Committee on Resuscitation.
3. Drug Screen or other requirements as outlined by the clinical sites.
4. Proof of high school graduation or equivalent filed in Enrollment Services.
5. Submit proof of age – 18 years or older on or before the clinical start date for the applied class year.

Minimum Requirements for Admission to the Core Program: Listed below are the specific requirements for admission to this program. It should be understood, however, that **only** the minimum requirements are given and that admission to this program is a selective process. The satisfaction of minimum requirements does not automatically guarantee admission. When space is limited, preference may be given to students within the community college's assigned district.

1. **Recommended Prerequisites:** Satisfactory completion with a grade of "C" or higher in BSC 2085, BSC2085L, BSC2086, BSC2086L, HSC1531, HSC1000, HSC1000L, and HSC1024. Preference will be given to students who have completed the recommended prerequisites or are currently enrolled with a satisfactory grade.
2. Students who are validated as currently certified as a surgical technologist (CST) may apply for entry as outlined in the current application packet. The on-site lab will be the third full week of June and/or September each year.   Send e-mail request for exact dates.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

3. Complete the application process satisfactorily as outlined in the selection package including requirements specified by the clinical site.
4. Completion of Physical Examination with satisfactory results.

GCSC Articulation:

Surgical Technologist: Up to 32 of the college credits in classroom, lab skills and clinical experience may be granted by submission of the external packet including a validated current nationally accredited credential such as proof of certification as a surgical technologist (CST). The remaining courses BSC2085, BSC2085L, BSC2086, BSC2086L, STS2330, STS2330L, STS2305, STS2306, STS2331, STS2332, STS2365, STS2370, and STS2371 representing 27 college credits must be successfully completed for the SFA college credit certificate. For those desiring an AS degree, an additional 15 credits including the general education courses (ENC1101, PSY2012, or SYG2000, math, and a humanities course) and the 3 college credits for the specialization course either in education, management, or marketing/sales are required for a total of 42 credits to earn the SFA2-AS degree.

Surgical First Assistants: For those students who hold validated current nationally accredited credentials such as the CST and CSFA credential, who desire to earn an AS degree in SFA, up to a total of 18 SFA credits can be awarded including STS2330, STS2330L, STS2305, STS2306, STS2331, STS2332, STS2370, and STS2371 upon submission of a satisfactory external credit packet. Students must complete the remaining general education courses BSC2085, BSC2085L, BSC2086, BSC2086L, ENC1101, PSY2012 or SYG2000, math, a humanities course, STS2365, and the 3 elective course credits for a total of 24 credits.

CST or CSFA Applicants: To be eligible to graduate from GCSC, the student will have to complete at least 25% of the entire 74 credit program with Gulf Coast State College which is a minimum of 21 credit hours completed at GCSC for the SFA2-AS degree.

Graduation and Retention Requirements: For the Surgical First Assistant Program, students must earn a grade of "C" or higher in each course. See surgical services student handbook for further information regarding graduation, retention, dismissal, readmission, and transfer credit policies.

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

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+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

SURGICAL TECHNOLOGY SPECIALIST
COLLEGE CREDIT CERTIFICATE
(SURC-CCC)

AREA OF CONCENTRATION: The purpose of this four-semester 49 college credit (1330 hours) program is to educate students in the specialty of surgical technology and promote knowledge based critical thinking in the safe practice of surgical technology. Upon completion of all graduation requirements, graduates of this program will receive a Surgical Technology Specialist College Credit Certificate. Successful completion of the program will allow graduates to apply to take the national certifying examination provided all the eligibility requirements currently established are met.

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences containing a current listing of admission and course requirements.

Prerequisite Courses		Credit Hours
	*HSC1000, Orientation to Perioperative Services	3
	*HSC1000L, Orientation to Perioperative Services Lab	1
	*HSC2520, Microbiology for Perioperative Services	3
	*STS1300, Surgical Anatomy and Physiology	5
Major Courses		
	+*STS1302, Introduction to Surgical Technology	4
	+*STS1302L, Introduction to Surgical Technology Lab	2
	+*STS1310, Surgical Tech & Procedures	4
	+*STS1310L, Surgical Tech & Procedures Lab/Clin	2
	+*STS1340, Pharmacology & Anesthesia	2
	+*STS2323, Surgical Procedures I	4
	+*STS2323L, Surgical Procedures I Lab	2
	+*STS2324, Surgical Procedures II	4
	+*STS2324L, Surgical Procedures II Simulation Lab	2
	+*STS2944, Surgical Technologist Clinical I	3
	+*STS2945, Surgical Technologist Clinical II	3
	+*STS2953, Surgical Technologist Portfolio I	1
	+*STS2954, Surgical Technologist Portfolio II	2
	+*STS2361, The Art of Teamwork in Surgery	1
	+ *STS2365, Professional Skills for the OR Team	1
TOTAL CREDIT HOURS		49

APPLICATION PROCESS:
A. Apply for admission to Gulf Coast State College.
B. Submit the Surgical Technology Specialist program application forms.
C. Take the placement test as required in the Surgical Technology Specialist selection package.
D. Submit official high school or GED transcripts to the Office of Enrollment Services.
E. Submit official transcripts from all previous colleges to the Office of Enrollment Services for evaluation.
F. Have two reference forms mailed to the program director. (Forms are located in the application packet.)
G. Complete transcript analysis with course instructor or health sciences advisor.
H. Register and successfully complete the prerequisite courses with a grade of "C" or better. There is no guarantee of automatic transition to the surgical technologist program. Acceptance into the core program is based on overall performance.

Requirements Prior to Registering for the Prerequisite Class HSC1000L:
1. Satisfactory fingerprint/criminal background check.
2. Submission of completed documentation of immunization status as required for clinical entry prior to enrollment in HSC1000L Orientation to Perioperative Services Lab.
3. Copy of current Certification in Healthcare Provider Basic CPR by the American Heart Association or Red Cross based on the

+ Prerequisites and/or corequisites required. See course descriptions.
\# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

International Liaison Committee on Resuscitation.

4. Drug screen or other requirements as outlined by the clinical sites.

5. Proof of high school graduation or equivalent filed in the Office of Enrollment Services.

5. Submit proof of age – 18 years or older on or before the clinical start date for the applied class year.

Minimum Requirements for Admission to the Core Program: Listed below are the specific requirements for admission to this program. It should be understood, however, that **only** the minimum requirements are given and that admission to this program is a selective process. The satisfaction of minimum requirements does not automatically guarantee admission. When space is limited, preference may be given to students within the community college's assigned district.

1. Recommended Prerequisites: Satisfactory completion with a grade of "C" or higher in STS1300 Surgical Anatomy and Physiology (includes Medical Terminology) (or other approved Anatomy and Physiology and/or Medical Terminology course such as BSC1020 Human Biology with HSC1531 Medical Terminology   or EMS2010 with HSC1531 Medical Terminology), HSC1000/HSC1000L Orientation, and STS2520 Microbiology. Preference will be given to students who have completed the recommended prerequisites or are currently enrolled with a satisfactory grade.

2. Complete the application process satisfactorily as outlined in the selection package including requirements specified by the clinical site.

3. Completion of Physical Examination with satisfactory results.

GCCC Articulation: Up to 48 of the college credits in classroom, lab skills and clinical experience may be granted by validated current proof of certification as a surgical technologist (CST) towards an associate's degree in health science (AS1-HS). See the catalog description regarding articulation into the CCC or AS in surgical first assisting programs. See the program advisor to develop an education plan that fits your experience and education needs.

Graduation and Retention Requirements: For the Surgical Technologist Program, students must earn a grade of "C" or higher in each course. See surgical technologist student handbook for further information regarding graduation, retention, dismissal, readmission, and transfer credit policies.

Recommended Certificate Plan: Please refer to the degree plan to determine what classes are typically offered each term. This represents a student plan of approximately four-semesters/15 months for certificate. However, the prerequisite and core program courses with the STS prefix are only offered during the term indicated. See the program description for the Associates Degree in Health Sciences (AS1-HS) or the Surgical First Assisting AS (SFA-AS) option for those who plan to pursue a AS degree.

Fall I:
 STS1300, Surgical Anatomy and Physiology, 5 crs.
 HSC1000, Orientation to Perioperative Services, 3 crs.
 HSC1000L, Orientation to Perioperative
  Services Lab, 1 cr.
 HSC2520, Microbiology for Perioperative Services, 3 crs.

Spring A:
 STS1340, Pharmacology and Anesthesia, 2 crs.
Spring B:
 STS1302, Introduction to Surgical Technology, 4 crs.
 STS1302L, Introduction to Surgical Technology Lab, 2 crs.
Spring C:
 STS1310, Surgical Tech & Procedures, 4 crs.
 STS1310L, Surgical Tech & Procedures Lab/Clin, 2 crs.
Summer:
 STS2323, Surgical Procedures I, 4 crs.
 STS2323L, Surgical Procedures I Lab, 2 crs.
 STS2944. Surgical Technologist Clinical I, 3 crs.
 STS2953, Surgical Technologist Portfolio I, 1 cr.
 STS2361, The Art of Teamwork, 1cr.

+ Prerequisites and/or corequisites required. See course descriptions.

\# Applies to A.S. degree and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

Fall II:

STS2324, Surgical Procedures II, 3 crs.

STS2324L, Surgical Procedures II Simulation Lab, 2 crs.

STS 2945, Surgical Technologist Clinical II, 3 crs.

STS 2954, Surgical Technologist Portfolio II, 2 crs.

STS 2365, Professional Skills for the OR Team, 1 cr.

+ Prerequisites and/or corequisites required. See course descriptions.

Applies only to A.S. degree and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

SUSTAINABLE DESIGN
(SUST-CCC)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for employment as construction planners, or to provide supplemental training for persons previously or currently employed in these occupations.

The content includes, but is not limited to, communication skills, leadership skills, human relations and employability skills, safe and efficient work practices, assisting architects and architectural engineers in planning and designing structures, using construction materials, and dealing with contracts and specifications.

This program focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of the Architectural Design and Construction industry, planning, management, finance, technical and product skills, underlying principles of technology, labor issues, community issues and health, safety, and environmental issues.

Courses		Credit Hours
	# BCN1040, Introduction to Sustainability and Measurement Systems	3
	+#BCN1041, Introduction to Sustainable Sites	3
	+#BCN1042, Introduction to Sustainable Water Systems	3
	+#BCN1043, Introduction to Sustainable Design Materials and Resource	3
	+#BCN1044, Introduction to Indoor Environmental Air Quality	3
	+#BCN1045, Introduction to Integral Sustainable Design Theory	4
TOTAL DEGREE HOURS		19

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

**THEATRE AND ENTERTAINMENT TECHNOLOGY
(ENTR-AS)**

AREA OF CONCENTRATION: This program prepares students to embark on a technical career in the entertainment industry by providing a foundation in basic theatre technology, hands on training in the manufacturing, installation, and operation of emerging scenic, lighting, and sound production technologies and equipment, as well as a cross-disciplinary education in digital media, music production technologies, computer-aided drafting, and automated production technologies. Upon completion of the A.S. degree in Theatre and Entertainment Technology students will be prepared to fulfill such career roles as professional stage hands, scenic carpenters, stage electricians, lighting and soundboard operators, audio-visual technicians, shop supervisors, and entry level positions in event and production management.

Communications Area		Credit Hours
	•+*ENC1101, English I	3
Humanities Area		
	*See General Education Requirement (•MUL2010, •ARH2000, •THE2000, THE2071)	3
Mathematics Area		
	+*Approved mathematics (MAC, MGF, STA)	3
Social Sciences Area		
Behavioral Sciences	•PSY2012 or •SYG2000, Psychology/Sociology	3
History	EUH1000/EUH1001 Western Civilization I/II	3
Major Courses		
	+*TPA1210, Stagecraft I	3
	+*TPA1211, Stagecraft II	3
	*TPA1340, Drafting for Theatre I	3
	TPA1220, Introduction to Stage Lighting	3
	+TPA2070, Scenic Painting and Sculpting	3
	TPA2212, Sound for the Stage	3
	+*TPA1290L, Technical Theatre Lab I	2
	+*TPA1291L, Technical Theatre Lab II	2
	+TPA2221, Advanced Stage Lighting	3
	+*TPA2292L, Technical Theatre Lab III	2
	+*TPA2293L, Technical Theatre Lab IV	2
	+*TPA2077, Advanced Scenic Painting and Sculpting	3
	DIG2200, Basic Video	3
	DIG2251, Introduction to Digital Audio	3
	ELECTIVES (Choose 11 credits)	
	DIG2410, Basic Scripting for Video & Digital Media	3
	+DIG2205, Basic Video Editing	3
	+DIG2252, Digital Audio II	3
	+MUM2600, Sound Recording I	3
	+MUM2601, Sound Recording II	3
	+MUM2602, Sound Recording III	3
	+MUM2600L, Sound Recording Lab	2
	THE1925, Play Productions or MUO1020, Musical Productions	1
	TPA2930, Special Topics, Entertainment Tech	3
TOTAL DEGREE HOURS		64

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

WEB DESIGN AND PRODUCTION
(WDP-CCC)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for initial employment as web designers, web production assistants, web production artists, or to provide supplemental training for persons currently employed in the web design industry. The students will gain hands on experience in analysis of end-user needs, use of digital media/multimedia computer applications and the design and production of digital media/multimedia projects, including manipulation of video, animations, and audio. All courses in this program can be used in pursuit of the college's Associate of Science degree in Digital Media.

Courses		Credit Hours
	DIG2100, Web Design I	3
	+DIG2101, Web Design II	3
	GRA2156, Computer Graphics for Digital Designers I	3
	DIG2251, Digital Audio I or DIG2200, Basic Video	3
	DIG2300, 2D Animation or + COP2842, PHP with MySQL	3
TOTAL DEGREE HOURS		15

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies to A.S. degree and certificate programs.
 = PSAV course.
* Minimum grade of "C" required.

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EDUCATOR PREPARATION INSTITUTE (EPIA-XX/EPI-XX)

AREA OF CONCENTRATION: This program is designed for individuals interested in becoming certified teachers in the state of Florida and prepares individuals for potential employment as teachers within K-12 schools. Program candidates must already hold a bachelor's degree, in any area, from a regionally accredited college or university. All program applicants must submit to, and pass, a Level-2 background check. The Educator Preparation Institute (EPI) offers a state-approved pathway to teaching certification which aids students seeking a five-year professional teaching certificate. The EPI is offered within a 6- or 8-month timeline, as a mixture of on-line and face-to-face traditional classroom sessions. EPI candidates typically meet one Saturday a month and are required to complete two field experiences within K-12 public schools to prepare for careers in teaching.

APPLICATION PROCESS:
(The items below are listed only as a general guide. Prospective students should obtain a current application packet for the complete listing of entry requirements.)
1. Complete the online admission application at https://www.gulfcoast.edu/epi/application/default.aspx and click "Submit." Wait for acknowledgement of receipt from the EPI recruiting officer.
2. Receive notification of acceptance into the EPI-APP program. Attend new student orientation.
3. Apply for general admission to the college. Call or visit the college Admissions Office to obtain an Application for Admission and to receive information on the college admissions process. (850) 872-3892 or 1-800-311-3685, ext. 3892. Applications are also available online at www.gulfcoast.edu.
4. Provide an official transcript to GCSC Enrollment Services that documents completion of a bachelor's degree from a regionally accredited educational institution with an overall GPA of 2.5 or higher.
5. Document a satisfactory Level 2 fingerprint/criminal background check.
6. Submit a passing score on all portions of the General Knowledge Florida Teacher Certification Exam.
7. Submit a "Statement of Status of Eligibility" from the Florida Dept. of Education, showing the applicant is eligible to teach in a K-12 subject area. (EPI counselors can advise you how to obtain this Statement of Status of Eligibility).

Courses		Credit Hours
	#EPI0001, Classroom Management	3
	#EPI0002, Instructional Strategies	3
	#EPI0003, Teaching & Technology	3
	#EPI0004, The Teaching & Learning Process	3
	#EPI0010, Foundations of Research-Based Practices in Reading	3
	#EPI0020, The Teaching Profession	2
	#+EPI0940, The Teaching Profession/Field Exp	1
	#EPI0030, Diversity in the Classroom	2
	#+EPI0945, Diversity in the Classroom/Field Exp	1
TOTAL DEGREE HOURS		21

For additional information and program availability dates, visit https://www.gulfcoast.edu/epi/application/default.aspx.

TRANSFER CREDIT: Classes in the program are categorized as "institutional credit" and count only toward EPI certification.

Classes and credits are not transferable other than to approved EPI programs within the state of Florida.

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+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CORPORATE COLLEGE

MISSION: Recognizing that learning is a perpetual process, Corporate College exists to collaborate with university parallel, career studies, adult basic education programs, and student development services to ensure a continuum of vital learning experiences to meet citizens' non-degree/non-career studies, pre-licensing, and continuing education needs for regulated professions, employee and career training needs, community building opportunities, and personal development.

PROGRAMS: Designed to meet non-degree needs, Corporate College may be comprised of credit and noncredit courses, scheduled on or off campus, and offered through a variety of delivery systems, including but not limited to the following: lectures, town meetings, forums, seminars, workshops, clinics, conferences, on-line instruction, and self-paced, open-entry/open-exit formats. Courses are organized as follows:

BUSINESS AND INDUSTRY TRAINING PROGRAMS

Business and industry training programs address license preparation, pre-licensing, and continuing education needs of:
- Certified public accountants
- Computer and other technology users
- Construction industry contractors
- Electrical contractors
- Front-line managers/supervisors
- Insurance agents
- Manufacturing and industrial professionals
- Office systems personnel
- Pest control operators
- Professional engineers
- Small business owners/managers

Soft skills training programs are available for a variety of needs including customer service, teamwork, communication, and many more. Call 850-872-3818 for more information. Additionally, Business and Industry professionals can customize training programs to meet the needs of individual companies and organizations.

REGULATED HEALTH PROFESSIONS TRAINING PROGRAMS

Regulated health professions training programs address continuing education needs of:
- Certified addiction professionals
- Clinical laboratory personnel
- Clinical social workers
- Dental hygienists
- Dentists
- Emergency medical technicians
- Marriage and family therapist
- Mental health counselors
- Nursing home administrators
- Nurses (CNA, LPN, RN, ARNP)
- Occupational therapists/OTA
- Paramedics
- Physical therapists/PTAs
- Radiologic technologists
- Respiratory therapists

In addition to the above professions for which Gulf Coast State College maintains providership status, the following members of the health profession frequently enroll in courses: acupuncturists, dieticians, electrolysis technicians, funeral directors and embalmers, fitness trainers, educators, hearing aid specialist, massage therapists, medical records personnel, opticians, pharmacists, public health workers, and speech/language therapists, pathologists, and audiologists.

+ Prerequisites and/or corequisites required. See course descriptions.
\# Applies to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

REGULATED PUBLIC SAFETY TRAINING PROGRAMS

Regulated public safety professions training programs address continuing education needs of:
- Corrections officers
- Firefighters
- Law enforcement officers
- Juvenile justice officers
- Parole and probations officers
- Security guards

EDUCATION PROGRAMS AND PARTNERS

Education programs and partners address continuing education needs of:
- Child care workers
- Teacher aides
- Teachers

+ Prerequisites and/or corequisites required. See course descriptions.
# Applies only to A.S. degree and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

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+ Prerequisites and/or corequisites required. See course descriptions.
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 = PSAV course.
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ACG - ACCOUNTING

ACG2001, Principles of Financial Accounting I
3 hrs., 3 crs.
An introduction to financial accounting. A sole proprietorship will be assumed. The complete accounting cycle will be studied as it relates to a service business and a merchandising business. Additional topics include financial reporting and analysis, specialized journals, internal control, short-term liquid assets, and inventories.

+ACG2011, Principles of Financial Accounting II
3 hrs., 3 crs.
Prerequisite: Minimum grade of "C" in ACG2001 or consent of instructor.
A continuation of the introduction to financial accounting. Topics will include a study of short term liquid assets, long term assets, and current liabilities. Partnership and corporate accounting will also be introduced. Additional topics will include the statement of cash flows, financial statement analysis, and investments in stocks and bonds.

+ACG2071, Introduction to Managerial Accounting
3 hrs., 3 crs.
Prerequisite: ACG2001.
Accounting for planning, organization, and cost control.

+ACG2450, Basic Computer Augmented Accounting
3 hrs., 3 crs.
$25.00 lab fee
Prerequisite: ACG2001.
The accounting applications of electronic data processing, including the preparation, interpretation and use of computer information in financial decision-making. This course is transferable, but may not be substituted.

+ACG2500, Introduction to Nonprofit and Government Accounting
3 hrs., 3 crs.
Prerequisite: ACG2011.
Accounting theory as applied to municipal and government problems with emphasis on budgeting, encumbrances, funds, and bond issues. This course is transferable, but may not be substituted.

AMH – AMERICAN HISTORY

AMH1073, History of Gulf and Franklin Counties
3 hrs., 3 crs.
This course is a study of the history of the Gulf-Franklin area of the Florida Gulf Coast beginning with the prehistoric Native Americans to their removal in 1837; the European explorations, including Narvaez and DeSota; European settlements and abandonments; the Spanish mission system; the Forbes Purchase; the rise of Apalachicola and St. Joseph; the signing of Florida's first constitution; the collapse of St. Joseph; the Civil War; post-war condition; logging and fishing; the intracoastal waterway; the land boom/bust of the 20s; the Depression; the paper industry; the impact of World War I and World War II to the present.

AMH2010, United States History I
3 hrs., 3 crs.
This course covers United States history to 1876 and emphasizes the European background, the Revolution, Articles of Confederation, Constitution, problems of the new republic, sectionalism, manifest destiny, slavery, War Between the States, Reconstruction.

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AMH2020, United States History II
3 hrs., 3 crs.
This course is a history of the United States from 1876 to the present day. The course includes the growth of big business, the Agrarian Revolt, Latin American Affairs, the Progressive Movement, the World Wars, and political economics and world affairs since World War II.

AMH2070, Florida History
3 hrs., 3 crs.
This course is a history of the state of Florida and includes discovery, Spanish rule, acquisition by the U.S., statehood, the state's relationship to the Union, and contemporary economic and cultural development.

AMH2091, Black History
3 hrs., 3 crs.
This course is a study of the Black Americans to include their background and their role in the economic, political, and cultural development of the United States.

AML – AMERICAN LITERATURE

+*AML2010, American Literature through the Civil War
3 hrs., 3 crs.
Prerequisite: ENC1102 with minimum grade of "C." (Meets Literature Humanities requirement.)
Major writers, literary movements, forms, and themes of American literature from discovery of the New World to the end of the Civil War.   This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*AML2020, American Literature: Reconstruction to Present
3 hrs., 3 crs.
Prerequisite: ENC1102 with a minimum grade of "C." (Meets Literature Humanities requirement.)
Major writers, literary movements, forms, and themes of American literature from the Civil War to the present   This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*AML2600, African-American Literature
3 hrs., 3 crs.
Prerequisite: ENC1102 with a minimum grade of "C." (Meets Literature Humanities requirement.)
Major writers, literary movements, forms, and themes of African-American literature.   This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

ANT - ANTHROPOLOGY

ANT2000, Introduction to Anthropology
3 hrs., 3 crs.
This course provides an introduction to the history, theories, and methods of anthropology and its subfields: archaeology, biological anthropology, cultural anthropology, and linguistic anthropology. Major topics include human origins, evolution and variation, primatology, societies and cultures, supernatural beliefs, technology and human adaptation, medical and forensic anthropology, food and nutrition, tourism, and global change.

ANT2100, Introduction to Archaeology
3 hrs., 3 crs.
Introduction to the concepts, theories, and methods archaeologists use to study human culture from the world's earliest settlements to contemporary societies. Major topics include: field methods and site survey, artifact analysis, paleobotany,

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zooarchaeology, bioarchaeology, historical archaeology, cultural resource management, forensic archaeology, and the emergence of ancient civilizations.

ARC - ARCHITECTURE

+#ARC1301C, Design 1.1
120 hrs., 4 crs.
Corequisites: ARH2060, EGN1110C.
First course in the design studio sequence, this introductory course introduces the student without prior experience, to the design of space defined as the analysis, formation and articulation of habitable volumes. This course emphasizes the basic concepts of space, its inhabitation, and the process of its design. A sequence of analytical and generative exercises will develop the fundamentals of space cognition and will expose the students to the interplay between contextual strategies and simple programmatic requirements.

+#ARC1302C, Design 1.2
120 hrs., 4 crs.
$3.00 lab fee
Prerequisite: ARC1301C.
Continuation of ARC1301, Design 1.1. Development of spatial language, analytical abilities, communication skills and synthetic design process, with emphasis on all areas of spatial design--landscape, building and interior--are introduced as the material for refining and developing conventions of architectural representation and communication. Students learn to engage in strategies, formal conditions and ideas discovered through analysis. Students design an intervention in contexts generated through the application and transformation of the order revealed by analysis.

+ARC2303C, Design 2.1
120 hrs., 4 crs.
$82.00 lab fee
Prerequisites: ART1300C or ARC1302C or TAR1120 and TAR1120L.
Introduces fundamental ideas and techniques directed to the development and understanding of the design process and an architectural vocabulary. Study involves consideration of architectural theory, history, climate and cultural factors, structures, and materials that influence form. This course focus is the design process from shape creation to spatial relationships, so that the student can develop design skills in a preliminary design phase, and a personal technique and language from two dimensional designs to three dimensional forms.

+ARC2304C, Design 2.2
120 hrs., 3 crs.
$82.00 lab fee
Prerequisite: ARC2303C.
Introduces fundamental ideas and techniques directed to the development and understanding of the design process and an architectural vocabulary. Study involves consideration of architectural theory, history, climate and cultural factors, structures, and materials that influence form. This course focus is to develop the ability to use basic architectural principles in the design of buildings, interior spaces, and sites. Particular attention will be paid to graphic representations and architectural drawings as means to support the design process.

ARH – ART HISTORY

ARH2000, Understanding Visual Arts
3 hrs., 3 crs.
 (Meets Fine Arts Humanities requirement).
A study of visual expression as presented through different media. Lectures, slides, and studio activities will introduce the student to the problems and materials of the artists.

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ARH2050, Art History Criticism I
3 hrs., 3 crs.
(Meets Fine Arts Humanities requirement.)
From Prehistoric to Renaissance.

ARH2051, Art History Criticism II
3 hrs., 3 crs.
(Meets Fine Arts Humanities requirement).
From Renaissance to Twentieth Century.

ARH2060, History of Architecture
3 hrs., 3 crs.
(Meets Fine Arts Humanities requirement).
This course provides an introduction to the history of architecture from ancient times to modern days. It explores the relationships between historical developments in architecture and wider changes in the social, technological and aesthetics realms. The study of architecture will serve as a window into broader aspects of cultural history. Simultaneously, the course will examine architecture as a unique medium, with its own visual codes, spatial forms and material structures. In this sense, the history of architecture will be seen in terms of the internal dynamics and ongoing issues of what it means to design and build in any context. The students will be expected to develop visual literacy in the forms and trends of architecture over the various periods. Emphasis will be placed on learning to look at buildings and architectural representations in a deeper way. The history of architecture will be read both from the outside, as a consequence of certain social, economic and ideological forces, and from inside, as a problem of the evolution of the construction materials, technology and science.

ART - ART

ART1100C, Crafts Design I
6 hrs., 3 crs.
$79.00 lab fee
Development of basic techniques using a wide range of materials, such as metals, fibers, fiber dye, enamels, and stained glass. Emphasis is placed on creative use of the techniques.

+ART1101C, Crafts Design II
6 hrs., 3 crs.
$79.00 lab fee
Prerequisite: ART1100C.
Enhanced development of the materials explored in ART1100C. Emphasis is placed on the creative use of the techniques.

+ART1201C, Design I
6 hrs., 3 crs.
$75.00 lab fee
Design I is a studio course that introduces the student to the fundamental elements of design and aesthetics.
Through a series of projects, ranging from simple design exercises to more complex and involved assignments students will develop an understanding of elements and principles of design. Emphasis will also be placed on the conceptual aspects of design. The student will learn strategies that will allow him to take an idea driven approach to the process of design and art making.

+ART1203C, Design II
6 hrs., 3 crs.
$84.00 lab fee
Prerequisite: ART1201C or consent of instructor.
Design II is a studio course that introduces the student to the fundamental elements of design as found in three-dimensional composition. Through a series of projects, ranging from simple design exercises to more complex and involved assignments

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students will develop an understanding of elements and principles of 3D design. Students will employ a variety of media to investigate the visual dynamics of form, mass, volume, space, shape, color, light, texture, composition, and structure.

ART1300C, Drawing I
6 hrs., 3 crs.
$80.00 lab fee
Basic problems in freehand drawing designed to develop skill and understanding of visual communication through the use of line.

+ART1301C, Drawing II
6 hrs., 3 crs.
$72.00 lab fee
Prerequisite: ART1300C or consent of instructor.
A continuation of basic problems in freehand drawing designed to develop skill and understanding. This course is designed to challenge the student with more advanced drawing projects which foster creativity, disciplined skill, and experimental approaches.

ART1430C, Silkscreen Printing
6 hrs., 3 crs.
$71.00 lab fee
An introduction to the basic techniques of silkscreen/serigraph printing. Students will learn the proper use of materials and equipment unique to the printmaking studio and become familiar with the basic vocabulary and techniques of making and printing silkscreen limited edition prints. Silkscreen printing requires substantial time devoted to the completion of class projects, both in and outside of scheduled class time.

ART1500C, Painting I
6 hrs., 3 crs.
$88.00 lab fee
Introduction to and involvement with painting media. Emphasis is placed on developing compositions which foster an understanding of some of the materials, skills, and directions possible in painting. Basic techniques and historical relationships will be related to in a format which also attempts to foster painting as a medium of expression.

+ART1501C, Painting II
6 hrs., 3 crs.
$78.00 lab fee
Prerequisite: ART1500C or consent of instructor.
Continuation of painting skill development, emphasizing composition and theme involvement.

ART1750C, Ceramics I
6 hrs., 3 crs.
$84.00 lab fee
Basic concepts of ceramic design. Experience in process of forming, decorating, glazing, and firing pottery.

+ART1751C, Ceramics II
6 hrs., 3 crs.
$84.00 lab fee
Prerequisite: ART1750C.
A continuation of skill development in ceramic production. Emphasis is on wheel throwing, hand building, preparation, and firing of pottery and kiln loading. Individual projects are developed.

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+ART2771C, Applied Ceramics
6 hrs., 3 crs.
$84.00 lab fee
Prerequisite: ART1751C or consent of instructor.
The purpose of this class is to prepare students for self-directed studio work. Students will investigate choices in materials to express a personal concept, and work developing technical skills. This class is intended to build on basic information from prior ceramics classes.

ART2955, Portfolio and Resume Development
3 hrs., 3 crs.
This course is designed to facilitate a smooth transition from a two-year school to a university. The course will assist students in assembling a portfolio of their work, writing an artist statement, and composing a resume. Also discussed is how to fill out applications for college admissions. This information can be used in relating to college admissions offices, prospective employers, or juried competitions.

ASL – AMERICAN SIGN LANGUAGE

#ASL1400, Introduction to Sign Language Systems I
2 hrs., 2 crs.
Current sign systems used throughout the United States, including ASL, Signed English, Signing Exact English, and PSE. Traces the history of sign language and fosters a greater appreciation and understanding of the hearing impaired and their culture. Introductory receptive and expressive sign language skills, including a working knowledge of 500 signs (alphabet, colors, numbers, food, emergency signs, etc**.) Does not satisfy foreign language requirement.**

+#ASL1401, Introduction to Sign Language Systems II
2 hrs., 2 crs.
Prerequisite: ASL1400.
A continuation of concepts introduced in ASL1400 with expansion of signing vocabulary by 300 new signs. Achievement of receptive and expressive skills with 80 percent accuracy. **Does not satisfy foreign language requirement.**

AST – ASTRONOMY

AST1002, Descriptive Astronomy
3 hrs., 3 crs.
A study of the earth-moon system, the celestial sphere, the solar system, the sun, stars, galaxies, the universe, and astronomical instruments. Mathematical procedures not stressed.

BAN – BANKING

#BAN1004, Principles of Bank Operations
3 hrs., 3 crs.
Fundamentals of bank functions. The descriptive orientation is international.

#BAN1114, Deposit Operations
2 hrs., 2 crs.
Overview of the U.S. payments system, banking law and regulation, and current industry practices. Examines bank deposit-taking activities, considers how banks manage deposited funds, and explores the interbank EFT systems.

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#BAN1156, Letters of Credit
2 hrs., 2 crs.
This course provides a hands-on approach to learning about the development, use, and operation of letters of credit and related international trade documents. It includes a detailed examination of most documents used in international trade activities today.

#BAN1210, Analyzing Financial Statements
3 hrs., 3 crs.
A study of characteristics of financial statements and financial statement analysis.

#BAN1240, Consumer Lending
3 hrs., 3 crs.
Topics to be covered include consumer credit, credit risks, application, analyzing financial data, collection, compliance, and marketing consumer loans.

#BAN1251, Real Estate Finance
3 hrs., 3 crs.
This course provides instruction to construction lending and other areas of commercial real estate finance with particular emphasis on managing credit risk. Real estate law, appraisal and investment analyses are also covered. Covers principles of finance related to Condominiums; Multifamily Rental Property; Retail Property; Office, Warehouse, and Lodging Property.

#BAN1500, Economics for Bankers
3 hrs., 3 crs.
An introduction to the fundamental principles of economics, basic economic theory, and examples of the application of economics to banking. Emphasis is placed on topics of importance to bankers.

#BAN1531, Introduction to Supervision
3 hrs., 3 crs.
Provides skills for new or potential supervisors to become better managers by emphasizing broad perspectives and by combining fresh insights with the interpersonal relations required of today's successful managers.

+#BAN2231, Commercial Lending
3 hrs., 3 crs.
Prerequisite: BAN1004.
Provides knowledge and skills to be an effective commercial lender, including the technical side of lending and the human relations skills all successful leaders need.

#BAN2253, Introduction to Mortgage Lending
2 hrs., 2 crs.
This course covers construction and permanent financing for residential property, real estate law, documentation, mortgage load servicing, the secondary mortgage market, the role of government in mortgage leading, and residential real estate as an investment.

#BAN2254, Mortgage Loan Documentation
2 hrs., 2 crs.
This course is designed for use in residential mortgage loan processing training, and is tailored specifically to the basic training needs of loan processing offices that are subsidiaries of commercial banks. Compliance with regulatory requirements is emphasized throughout.

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#BAN2400, Trust Business
3 hrs., 3 crs.
An overview of the trust department, including how it fits into the bank's overall operations, the services it provides, and generally how those services are delivered.

#BAN2403, Trust Investments
3 hrs., 3 crs.
Theory and practice of trust department investment services.

+#BAN2405, Trust Operations
3 hrs., 3 crs.
Prerequisite: BAN2161.
Covers basic trust terminology and concepts and ideas of trust functions within the securities industry.

#BAN2413, Securities Processing
3 hrs., 3 crs.
Provides understanding of the securities industry and its application to the banking environment.

#BAN2501, Money and Banking
3 hrs., 3 crs.
Practical aspects of money and banking with emphasis on the basic monetary theory needed to apply knowledge to a particular job. Emphasis is placed on economic stabilization, types of spending, the role of gold, limitation of central bank control, government fiscal policy, balance of payments, and foreign exchange, showing their repercussions on the banking industry in affecting yield curves and the structuring of portfolios.

#BAN2511, Marketing for Bankers
3 hrs., 3 crs.
The basics of public relations, both internal and external. An overview of the essentials of bank public relations and marketing.

#BAN2532, Supervisory Training
3 hrs., 3 crs.
Teaches managerial skills and concepts to current supervisors by integrating sound managerial concepts with practical experience. A modular format allows for flexibility so either basic or advanced skills can be enhanced.

#BAN2744, Bank Management
3 hrs., 3 crs.
Introduction to modern management theory, practices, and applications.

#BAN2800, Law and Banking Principles
2 hrs., 2 crs.
This course is a banker's guide to law and legal issues, with special emphasis on the Uniform Commercial Code.

#BAN2801, Law and Banking Applications
3 hrs., 3 crs.
An introduction to laws pertaining to secured transactions, letters of credit, and the bank collection process.

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BCA – BUILDING CONSTRUCTION APPRENTICESHIPS

+=BCA0340, Electrical Apprenticeship 9
90 contact hrs., 3 vocational crs.
Prerequisite: BCA0357.
This is the first course, in the 5th year, of the 5-year Electrical Apprenticeship Program that is designed to prepare individuals to become Journeymen Electricians. This course is a continuation of the Electrical Apprenticeship 8 course.

+=BCA0341, Electrical Apprenticeship 10
90 contact hrs., 3 vocational crs.
Prerequisite: BCA0340.
This is the 2nd course, in the 5th year, of the 5-year Electrical Apprenticeship Program that is designed to prepare individuals to become Journeymen Electricians. This course is a continuation of the Electrical Apprenticeship 9 course.

+=BCA0345, Electrical Internship 9
640 contact hrs., 21 vocational crs.
Prerequisite: BCA0350.
This is the year 5, semester 1, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

+=BCA0346, Electrical Internship 10
640 contact hrs., 21 vocational crs.
Prerequisite: BCA0350.
This is the year 5, semester 2, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

+=BCA0347, Electrical Internship Summer 5
540 contact hrs., 18 vocational crs.
Prerequisite: BCA0350.
This is the year 5, summer, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

=BCA0350, Electrical Apprenticeship 1
90 contact hrs., 3 vocational crs.
This is the 1st course, in the 1st year, of the 5-year Electrical Apprenticeship Program that is designed to prepare individuals to become Journeymen Electricians. This course is a continuation of the Electrical Apprenticeship 1 course.

+=BCA0351, Electrical Apprenticeship 2
90 contact hrs., 3 vocational crs.
Prerequisite: BCA0350.
This is the 2nd course, in the 1st year, of the 5-year Electrical Apprenticeship Program that is designed to prepare individuals to become Journeymen Electricians. This course is a continuation of the Electrical Apprenticeship 1 course.

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=BCA0352, Electrical Apprenticeship 3
90 contact hrs., 3 vocational crs.
This is the first course, in the 2nd year, of the 5-year Electrical Apprenticeship Program that is designed to prepare individuals to become Journeymen Electricians.

+=BCA0353, Electrical Apprenticeship 4
90 contact hrs., 3 vocational crs.
Prerequisite: BCA0352.
This is the 2nd course, in the 2nd year, of the 5-year Electrical Apprenticeship Program that is designed to prepare individuals to become Journeymen Electricians. This course is a continuation of the Electrical Apprenticeship 3 course.

+=BCA0354, Electrical Apprenticeship 5
90 contact hrs., 3 vocational crs.
Prerequisite: BCA0353.
This is the first course, in the 3rd year, of the 5-year Electrical Apprenticeship Program that is designed to prepare individuals to become Journeymen Electricians. This course is a continuation of the Electrical Apprenticeship 4 course.

+=BCA0355, Electrical Apprenticeship 6
90 contact hrs., 3 vocational crs.
Prerequisite: BCA0354.
This is the second course, in the 3rd year, of the 5-year Electrical Apprenticeship Program that is designed to prepare individuals to become Journeymen Electricians. This course is a continuation of the Electrical Apprenticeship 5 course.

+=BCA0356, Electrical Apprenticeship 7
90 contact hrs., 3 vocational crs.
Prerequisite: BCA0355.
This is the first course, in the 4th year, of the 5-year Electrical Apprenticeship Program that is designed to prepare individuals to become Journeymen Electricians. This course is a continuation of the Electrical Apprenticeship 6 course.

+=BCA0357, Electrical Apprenticeship
90 contact hrs., 3 vocational crs.
Prerequisite: BCA0356.
This is the second course, in the 4th year, of the 5-year Electrical Apprenticeship Program that is designed to prepare individuals to become Journeymen Electricians. This course is a continuation of the Electrical Apprenticeship 7 course.

+=BCA0358, Electrical Internship 1
640 contact hrs., 21 vocational crs.
Prerequisite: BCA0350
This is the year 1, semester 1, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

+=BCA0359, Electrical Internship 2
640 contact hrs., 21 vocational crs.
Prerequisite: BCA0350.
This is the year 1, semester 2, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

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+=BCA0360, Electrical Internship Summer 1
540 contact hrs., 18 vocational crs.
Prerequisite: BCA0351.
This is the year 1, summer, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

+=BCA0361, Electrical Internship 3
640 contact hrs., 21 vocational crs.
Prerequisite: BCA0350.
This is the year 1, semester 1, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

+=BCA0362, Electrical Internship 4
640 contact hrs., 21 vocational crs.
Prerequisite: BCA0350.
This is the year 2, semester 2, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

+=BCA0363, Electrical Internship Summer 2
540 contact hrs., 18 vocational crs.
Prerequisite: BCA0350.
This is the year 2, summer, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvment in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide students the opportunity to apply their knowledge and gain hands-on skills.

+=BCA0364, Electrical Internship 5
640 contact hrs., 21 vocational crs.
Prerequisite: BCA0350.
This is the year 3, semester 1, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

+=BCA0365, Electrical Internship 6
640 contact hrs., 21 vocational crs.
Prerequisite: BCA0350.
This is the year 3, semester 2, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

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+=BCA0366, Electrical Internship Summer 3
540 contact hrs., 18 vocational crs.
Prerequisite: BCA0350.
This is the year 3, summer, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

+=BCA0367, Electrical Internship 7
640 contact hrs., 21 vocational crs.
Prerequisite: BCA0350.
This is the year 4, semester 1, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

+=BCA0368, Electrical Internship 8
640 contact hrs., 21 vocational crs.
Prerequisite: BCA0350.
This is the year 4, semester 2, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

+=BCA0369, Electrical Internship Summer 4
540 contact hrs., 18 vocational crs.
Prerequisite: BCA0350.
This is the year 4, summer, coordinated work experience program that reinforces the educational and professional growth of students through parallel involvement in classroom instruction and field experience for the Electrical Apprenticeship program. Field activities are coordinated with classroom activities to provide student the opportunity to apply their knowledge and gain hands-on skills.

BCN – BUILDING CONSTRUCTION

#BCN1040, Introduction to Sustainability and Measurement Systems
3 hrs., 3 crs.
Fundamentals of blueprint reading in light construction for use by the building trades. Includes current standards, design characteristics, structural relationships, and the use of building materials.

+#BCN1041, Introduction to Sustainable Sites
3 hrs., 3 crs.
Prerequisites: BCN1040, EGN1110C, ETD1320.
This course describes how to develop a sustainable site and the variables that regulate it. It gives background information for the variables and their effect on people and for the planning and design of a site and systems to create a safe, healthy, and sustainable environment. The course goes on to list the credits offered for optimizing the site conditions by the USGBC LEED NC rating system and the requirements for achieving the credits.

+#BCN1042, Introduction to Sustainable Water Systems
3 hrs., 3 crs.
Prerequisites: BCN1040, EGN1110C, ETD1320.
This course describes sustainable water systems and the variables that regulate them. It gives background information for the variables and their effect on people and for the design of buildings, sites, and systems to create a safe, healthy, and sustainable

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environment. The course goes on to list the credits offered for optimizing the water efficiency by the USGBC LEED NC rating system and the requirements for achieving the credits.

+#BCN1043, Introduction to Sustainable Design Materials and Resources
3 hrs., 3 crs.
Prerequisites: BCN1040, EGN1110C, ETD1320.
This course describes sustainable materials and resources for sites and buildings and the variables that regulate them. It gives background information for the variables and their effect on people and for the design of sites, buildings, and systems to create a safe, healthy, and energy efficient environment. The course goes on to list the credits offered for materials and resources by the USGBC NC rating system and the requirements for achieving the credits.

+#BCN1044, Introduction to Indoor Environmental Air Quality
3 hrs., 3 crs.
Prerequisites: BCN1040, EGN1110C, ETD1320.
This course describes the indoor environment quality (IEQ) of buildings and the variables that regulate it. It gives background information for the variables and their effect on people and for the design of buildings and systems to create a safe, healthy, and productive environment. The course goes on to list the credits offered for optimizing the indoor conditions by the USGBC LEED NC rating system and the requirements for achieving the credits.

+#BCN1045, Introduction to Integral Sustainable Design Theory
6 hrs., 4 crs.
Prerequisites: BCN1040, EGN1110C, ETD1320.
This course outlines a new, rigorous, theoretical, and practical approach to understanding sustainable design. The course covers all of the major ways of thinking about sustainable design. We will use an integral lens to view sustainable design from four fundamental perspectives: technology, ecology, art, and culture. We will also examine the four major contemporary world views on sustainable design: traditional, modern, post-modern, and integral. Using the integral approach, the student will develop a design project according to the USGBC LEED NC rating system and the requirements for achieving the credits. If you are taking this course as part of the certificate in sustainable design and green building, it is highly recommended you take this course as it provides opportunity to implement all the material covered in the previous courses in a final design project.

BCN1230, Materials and Methods
3 hrs., 3 crs.
A study of materials and methods used in commercial or private dwelling construction. Includes the use of wood, steel, and concrete in all phases of construction and a study of the fabrication of component units and their assembly at the construction site.

+BCN2405, Statics and Strength of Materials
3 hrs., 3 crs.
This course introduces students to basic concepts of statics and strength of basic materials, such as wood, concrete, and steel. The course covers the concepts of bodies at rest, shear, bending moments deflection, and moments of inertia. Students will master mathematical formulas for analyzing forces and reactions and will develop critical thinking skills necessary to understand structural behavior of building systems. Basic beam and column design will be used to illustrate the learned concepts.

+#BCN2046, Sustainable Construction
3 hrs., 3 crs.
Prerequisite: BCN1230.
This course is designed to deliver a detailed, and in depth, overview of the entire process of green building, covering the theory, history, state of the industry, and best practices in sustainable construction.

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+#BCN2231, Materials and Methods II
3 hrs., 3 crs.
Prerequisite: BCN1230.
An in-depth study of the techniques, structure, characteristics, analysis and application of modern construction and engineering materials with an emphasis on the processing, structure, properties and performance interrelationship. Students will gain an understanding of material science and use experimentation to discover applications and techniques of materials. An emphasis will be placed on high-performance materials within the built environment. (May be repeated for a total of six credits.)

+#BCN2581C, Green Building Delivery Systems and Techniques
6 hrs., 3 crs.
Prerequisite: BCN1230, BCT2715.
The purpose of the course is to provide an overview of emerging delivery systems and techniques for high performance green buildings. The U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) criteria are discussed in detail.

+#BCN2643, Economics of Sustainable Construction
3 hrs., 3 crs.
Prerequisite: BCT2770.
Corequisite: BCN2046.
This course is designed to provide students with advanced principles of: building science and residential energy; the procedures used to assess the performance of new and existing buildings; return on investment; life cycle costs assessment, and cost-benefit analysis.

BCT – BUILDING CONSTRUCTION TRADES

#BCT1040, Blueprint Reading for Building Trades
3 hrs., 3 crs.
Fundamentals of blueprint reading in light construction for use by the building trades. Includes current standards, design characteristics, structural relationships, and the use of building materials.

#BCT2715, Construction Management
3 hrs., 3 crs.
A survey of the problems encountered in building construction involving personnel; contracts; federal, state, and local laws involving taxes, unemployment compensation, safety, liens, property deeds, easements, and licensing.

BCT2770, Construction Estimating
3 hrs., 3 crs.
The basic principles and current practices employed in estimating building costs. The student learns to prepare material lists and to take off quantities of materials and labor hours from working drawings and specifications. Project cost estimates are prepared.

BOT - BOTANY

BOT2800, Plants and Society
3 hrs., 3 crs.
Introductory course investigating basic botany principles with a strong emphasis on the econmics aspects and social impact of plants. Emphasis on scientific terminology, plant identification, food production, and medicinal plants**.**

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BSC - BIOLOGY

BSC1005, General Biological Science
3 hrs., 3 crs.
Satisfactory completion of ENC0015 or appropriate placement score is recommended. Cannot be used to satisfy degree requirements by students who already have credit in BSC2010 or BSC2011.
A basic general education course designed to give the student an understanding of the cellular basis of life, genetics and inheritance, evolution and diversity, and ecology.

BSC1005L, General Biological Sciences Lab
2 hrs., 1 cr.
$43.00 lab fee
Corequisite: BSC1005 is recommended.
A basic general education laboratory course designed to give the student an understanding of the cellular basis of life, genetics and inheritance, evolution and diversity, and ecology. Students will apply knowledge of the nature of science and scientific methodology to solve problems related to these topics and employ safe and effective use of laboratory technologies. This course is not intended for science majors. It is recommended that BSC1005 be taken as a corequisite or previously completed with a grade of "C" or better.

BSC1020, Human Biology
3 hrs., 3 crs.
Satisfactory completion of ENC0015 or appropriate placement score is recommended. Cannot be used to satisfy degree requirements by students who already have credit in BSC2010 or BSC2011.
A basic general education course designed to give the student an understanding of the cellular basis of life, genetics and inheritance, and how the different systems in the body function.

BSC1020L, Human Biology Lab
2 hrs., 1 cr.
$45.00 lab fee
Recommended for students with the requirement of a science laboratory in their program track.
Laboratory activities include the use of the microscope, cell and tissue study, chemical aspects of cell and tissue study, chemical aspects of cells and digestion, the study of human organ systems with the dissection of the fetal pig, and genetics.

+BSC2010, Biology for Science Majors I
3 hrs., 3 crs.
Prerequisites: CHM1040 or equivalent. Corequisite: BSC2010L. College-level placement in English and reading recommended prior to taking this course.
First of two courses designed to provide depth in the biological sciences for students majoring in the life sciences. Course covers scientific methods, the chemical and cellular basis of life, bioenergetics, cellular reproduction, and molecular and organismal genetics.

+BSC2010L, Biology for Science Majors I Laboratory
3 hrs., 1 cr.
$47.00 lab fee
Corequisite: BSC2010.
A laboratory course to be taken concurrently with BSC2010. Laboratory experiences will relate to the chemical and physical aspects of life, cellular processes, photosynthesis and cellular respiration, mitosis and meiosis, and genetics.

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+BSC2011, Biology for Science Majors II
3 hrs., 3 crs.
Prerequisites: BSC2010. Corequisite: BSC2011L.
The second sequence course for students majoring in the life sciences. Concentration is on diversity of life. Topics covered include plant and animal tissues, principles of ecology, population genetics, and evolution.

+BSC2011L, Biology for Science Majors II Laboratory
3 hrs., 1 cr.
$78.00 lab fee
Corequisite: BSC2011.
A laboratory course to be taken concurrently with BSC2011. Laboratory experiences will include structure and function of plants and animals, ecological principles, and evolution. Activities include field trips, experiments in physiology, and dissections.

+BSC2085, Human Anatomy and Physiology I
3 hrs., 3 crs.
Corequisite: BSC2085L or consent of Natural Sciences division chair.
A study of chemistry, cells, tissue, the integument, the skeletal system, the muscular system, the cardiovascular system, and the respiratory system. Structure and function taught concurrently. This course is not intended for biology majors. Satisfactory completion of BSC 1020 or high school biology during the last 5 years is strongly recommended.

+BSC2085L, Human Anatomy and Physiology I Laboratory
2 hrs., 1 cr.
$43.00 lab fee
Corequisite: BSC2085.
Laboratory experiences related to lecture material, including microscope usage, membrane physiology, cell structure, and survey of tissues. Using appropriate dissection and histology slides the skeletal, muscular, cardiovascular, and respiratory systems will be studied.

+BSC2086, Human Anatomy and Physiology II
3 hrs., 3 crs.
Corequisite: BSC2086L.
A study of the lymphatic system, fluid balance, the nervous system and special senses, the digestive system, the urinary system, the endocrine system, and the reproductive system. Structure and function taught concurrently. This course is not intended for biology majors.

+BSC2086L, Human Anatomy and Physiology II Laboratory
2 hrs., 1 cr.
$51.00 lab fee
Corequisite: BSC2086.
A laboratory course to be taken concurrently with BSC 2086. Laboratory experiences will relate to the lecture material and will include histology studies and appropriate dissections to study the lymphatic, nervous, digestive, urinary, endocrine, and reproductive systems.

+BSC2311, Introduction to Marine Biology
3 hrs., 3 crs.
Satisfactory completion of high school biology and chemistry during the last five years is strongly recommended.
An introduction to the features of the world ocean and the major groups of living marine organisms that inhabit it. Physical, chemical, and biological interrelationships are emphasized. This course is not intended for biology majors, nor will it serve as a requirement for marine biology majors.

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BSC2931, Special Topics
1 hr., 1 cr.
This course centers around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. (This course does not satisfy the biological sciences requirement for the A.A. degree. Transfer of credit is the prerogative of the receiving institution.)

BSC2932, Special Topics
2 hrs., 2 crs.
This course centers around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. (This course does not satisfy the biological sciences requirement for the A.A. degree. Transfer of credit is the prerogative of the receiving institution.)

#BSC2933, Special Topics
3 hrs., 3 crs.
This course centers around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. (This course does not satisfy the biological sciences requirement for the A.A. degree. Transfer of credit is the prerogative of the receiving institution.)

BUL – BUSINESS LAW

BUL2241, Business Law
3 hrs., 3 crs.
A survey course of the legal setting in which business operates. Emphasis on public and regulatory law and on social, political, and ethical aspects of legal issues in business. Areas covered include administrative law, antitrust law, contracts, torts, employment law, and related topics. (Check with your advisor about university transfer requirement.)

+BUL3564, Legal Aspects of Managing Technology
3 hrs., 3 crs.
Prerequisite: Admission to Technology Management BAS Program or permission of the department chair.
Corequisite: MAN3303 or permission of department chair.
Students in this course will study specialized legal issues involving electronic commerce. Topical areas include intellectual property rights, trade secrets, online contracting, unfair competition, privacy and enforcement of rights.

CAP – COMPUTER APPLICATIONS

+CAP2050, Computer Game Processing
3 hrs., 3 crs.
Prerequisites: DIG2040 and previous experience with Object Oriented Programming.
Participants in this course will have an opportunity to explore the skills and techniques associated with the electronic/digital game development process, including content creation strategies and production techniques. This course is intended for individuals interested in the gaming industry as well as careers in animation and simulation. This course dives into the XNA game studio programming concept.

+#CAP2141, Data Forensics II
3 hrs., 3 crs.
$3.00 lab fee
Prerequisites: CIS2381.
This course provides information on advanced computer forensics and how to prepare for and conduct a computer investigation, use of computer forensics software including access DATAS Forensic Toolkit FTK and guidance softwares ENCASE, use of computer forensics acquisition hardware including Forensic Recovery Evidence Device (FRED), Ultimate Tool Kit Write Blocker Suite, Voom Hardcopy II, advanced techniques in windows registry analysis utilizing FTKS registry analyzer, recover forensic data from handheld devices such as PDAS, pagers, and cell phones using PARABENS cell and PDA seizure, password

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recovery tools including ACCESSDATAS PRTK, analysis of Windows XP operating system, and forensic analysis of Vista, Microsoft's newest operating system. Hands-on exercises are an integral part of the course.

+CAP4774, Data Warehousing
3 hrs., 3 crs.
Prerequisite: ISM4214.
Corequisite: MAN3303.
This course provides an introduction to data warehousing concepts, requirements gathering, design and implementation. Students learn about operational database integration, extraction, transformation, loading of data to historical database system such as operational data store and data warehouse. Students are provided with techniques for the analysis, design, denormalization, implementation, utilization, and documentation in the development of data warehouse systems. Structure query language for database and data warehouse will be studied and used to retrieve data and manipulate the information from the implemented databases. Students are required to complete and present a project to class in the data warehousing area.

CCJ – CRIMINOLOGY AND CRIMINAL JUSTICE

CCJ1010, Introduction to Criminology
3 hrs., 3 crs.
This course examines crime and criminals with a particular emphasis on what actions society can or should take regarding crime and criminals. Explains why and how crime occurs and how this knowledge can guide governmental and legislative policy development. Factors that contribute to crime, the social reactions to crime, and the policies presently in place to combine crime will be examined. The focus will be on crime theories and perspectives.

CCJ1020, Introduction to Criminal Justice
3 hrs., 3 crs.
This course provides students with a basic understanding of how the American criminal justice system functions. The American criminal justice system includes law enforcement agencies (police, sheriff, state law enforcement agents, FBI, CIA, DEA, ATF), the courts, and the corrections agencies (prisons and jails.)

CCJ1191, Human Behavior in Criminal Justice
3 hrs., 3 crs.
A consideration of human behavior and how it relates to the duties and responsibilities of the criminal justice practitioner.

#CCJ2197, Hostage Negotiation
45 contact hrs., 3 crs.
Goals and rationale for criminal justice training in hostage and barricade subject intervention. Comparisons will be made among the different approaches to these situations, such as assault sniper fire and containing and negotiating. The complexity of the criminal justice role and the stress involved will be discussed.

<#CCJ2645, Financial Fraud Investigations
45 contact hrs., 3 crs.
This course is part of the Criminal Justice Standards and Training Commission Advanced Training Program. It is one of a series of non-sequential general or specialized skills training programs. Courses in the Advanced (or Specialized) Training Program are designed to enhance an officer's knowledge, skills, and abilities for the job he/she performs.
This course is designed to provide criminal justice officers with the basic tools to investigate organizations or individuals that receive proceeds as the result of fraud related activities to include multi-jurisdictional or multi-victim financial fraud. This course will provide an understanding of how to maintain current knowledge of global, national, state, and local financial fraud trends, how to conduct a preliminary assessment based on the initial report or complaint, how to conduct a desk and field investigation, case file management, and community awareness, prevention, and victim assistance.

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CET – COMPUTER ENGINEERING TECHNOLOGY

+CET1112C, Digital & Computer Circuits
6 hrs., 4 crs.
$23.00 lab fee
Prerequisite or Corequisite: MAC1105.
Integrated lecture and laboratory experiences to facilitate the study of digital integrated circuits, number systems, and Boolean algebra simplification and introduction to computer architecture. Included is the study of gates, counters, adders, registers, multivibrators, and arithmetic logic units. National Instruments MultiSim will be used to design circuits and protoboards with test equipment will be used to build and test circuits.

+#CET2123C, Microprocessor Fundamentals
5 hrs., 3 crs.
$23.00 lab fee
Prerequisite: CET1112C.
This course is designed to provide the student with a basic understanding of microprocessor and microcontroller operation, programming, interfacing, interrupts, and troubleshooting, including the study of micropossor architecture used for embedded systems. Software applications will be developed in C+ and LabVIEW for embedded systems with some assembly language.

+CET3135C, Microcontroller Technology with Lab
6 hrs., 4 crs.
Prerequisites: MAN3303, CET2123.
Exploration of a wide range of topics in guiding students through real-time control software and interfacing, concentrating on applications of microcontroller.

CGN – CIVIL ENGINEERING

+CGN2327L, Civil Engineering Graphics Lab
3 hrs., 1 cr.
$50.00 lab fee
Prerequisite: EGN2123 or ETD1320 or approval of the instructor.
The objective of this course is to provide students with the knowledge and hands-on experience to successfully create, edit, dimension, and plot civil and environmental engineering projects such as drawing maps, cuts and fills, road cross sections, soil absorption fields, sewage disposal, highway maps, dams, bridges and trusses, using Autodesk Land Desktop™ and Civil 3D™ software.

CGS – COMPUTER GENERAL STUDIES

#CGS1000, Introduction to Data Processing
3 hrs., 3 crs.
A study of the terminology and principles of mechanized and electronic data processing systems used in business and government.

CGS1103, Project Management Concepts and Processes
3 hrs., 3 crs.
This course will allow the student to understand how to plan, organize, create presentation material, and manage projects using various software tools. Students will software applications to plan a project; track tasks and organize the overall project; analyze cost, time, and resource effectiveness; and explore options for customizing project design material and effective implementation using software tools.

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+#CGS1544, Database Management Using Microsoft Access
3 hrs., 3 crs.
Prerequisite: CGS1570.
Introduction to relational database design, construction, and implementation. Students will gain a working knowledge of how to design forms, reports, queries, and menus in Microsoft Access. Students will build several database management systems ranging from a simple address book to a fully functional business system.

CGS1570, Microcomputer Applications
3 hrs., 3 crs.
An introduction to the operation and use of personal computers and the use of the software packages, including Windows, word processing, electronic spreadsheet, Internet access, electronic presentation software, and a database.

+CGS2069, Internet Marketing
3 hrs., 3 crs.
Prerequisite: CGS1570.
This course will present the development of an Internet business strategy with a particular emphasis on the marketing functions of advertising, promotion, distribution, and project management. Current and experimental applications will be taught on the classroom computers.

+CGS2518, Spreadsheets for Business Environments
3 hrs., 3 crs.
Prerequisite: CGS1570.
This course provides an in-depth study of spreadsheets utilizing a problem-solving approach. Spreadsheet-based solutions are explored for common business tasks and problems. The course presents a thorough coverage of spreadsheet functions and tools along with a deep understanding of their purpose in a business environment. This course is ideal for students with professional interests related to business and economics and also for students wishing to obtain a deeper understanding of spreadsheets in general.

CHM – CHEMISTRY

CHM1032, General, Organic, Biochemistry
3 hrs., 3 crs.
This course covers fundamental topics in general and organic chemistry and selected topics in biochemistry.

+CHM1032L, General, Organic, Biochemistry Laboratory
2 hrs., 1 cr.
$73.00 lab fee
Prerequisite or Corequisite: CHM1032 or CHM1040.
This course involves a series of "at home" activities using a kit supplied by the college and additional chemicals and materials commonly found in the home. Laboratory reports will be communicated via the Internet. Topics in physical and chemical properties, colloids, and solutions, electrolytes, pH and buffers, properties of organic compounds, and characteristics of amino acids, proteins, carbohydrates, and lipids will be addressed.

+CHM1040, Fundamentals of Chemistry
3 hrs., 3 crs.
Prerequisite: Satisfactory mathematics placement on the College-Level Placement Test or completion of MAT 1033 with a minimum grade of "C."
This course covers the fundamentals of chemistry with emphasis on descriptive chemistry. It includes topics in equations, stoichiometry, the Periodic Table, gas laws, nuclear chemistry, acids-bases, pH, and selected topics in carbon chemistry. (This course does not meet the chemistry requirement for science majors.)

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*Minimum grade of "C" required.

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CHM1040L, Fundamentals of Chemistry Laboratory
2 hrs., 1 cr.
$73.00 lab fee
This course introduces students to safety in the laboratory, fundamental chemistry laboratory processes, procedures, techniques, and equipment appropriate for the beginning student. It explores basic chemical and physical properties and changes, types of chemical reactions, behavior of gases, stoichiometric application, simple equilibria, and fundamentals of quantitative analysis.

+CHM1045, General Chemistry
3 hrs., 3 crs.
Prerequisites: CHM1040 or consent of the instructor; MAC1105. Corequisites: CHM 1045L and MAC1140.
Topics covered are chemical calculations, inorganic nomenclature, chemical reactions, thermochemistry, gases, atomic structure, configurations, periodicity, oxidation-reduction, and chemical bonding, including MO and VSEPR theory.

+CHM1045L, General Chemistry Laboratory
3 hrs., 1 cr.
$35.00 lab fee
Corequisite: CHM1045.
This course explores chemical and physical properties of substances, types of chemical reactions, energy changes, chemical separations, and quantitative analysis procedures. Designed to accompany the lecture, this laboratory enhances the student's understanding of the lecture topics and teaches basic chemical laboratory techniques.

+CHM1046, General Chemistry and Qualitative Analysis
3 hrs., 3 crs.
Prerequisites: MAC1140 and CHM1045 or the equivalent.   Corequisite: CHM1046L.
Topics include solids, liquids, gases, colligative properties, kinetics, gaseous equilibria, nuclear chemistry, weak electrolyte equilibria, solubility equilibria, entropy, free energy, and electrochemistry.

+CHM1046L, General Chemistry and Qualitative Analysis Laboratory
6 hrs., 2 crs.
$35.00 lab fee
Corequisite: CHM1046.
The first half of this course emphasizes quantitative analysis techniques to expand the student's knowledge of oxidation-reduction, gravimetric analysis, colligative properties, reaction rates, electrochemistry, chemical equilibrium and electrolytes. The second half of this course focuses on the chemical and physical techniques to identify unknown substances. Designed to accompany the lecture, this laboratory enhances the student's understanding of the lecture topics and teaches basic chemical laboratory techniques.

+CHM2210, Organic Chemistry I
3 hrs., 3 crs.
Prerequisite: CHM1046. Corequisite: CHM2210L.
A course in reactions, preparations, nomenclature, stereochemistry, conjugation, resonance, nucleophilic aliphatic substitutions, and elimination in alkanes, alkenes, alkynes, alkyl halides, alcohols, ethers, and cyclics; with an extensive introduction to organic synthesis.

+CHM2210L, Organic Chemistry I Laboratory
4 hrs., 2 crs.
$49.00 lab fee
Corequisite: CHM2210.
An accompanying course to Organic Chemistry I. Designed to accompany the lecture. This laboratory enhances the student's understanding of lecture topics and teaches basic organic laboratory techniques.

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+CHM2211, Organic Chemistry II
4 hrs., 4 crs.
Prerequisite: CHM2210. Corequisite: CHM2211L
A course covering the reactions, preparations, nomenclature, stereochemistry, conjugation, and resonance in aromatic and carbonyl compounds, amines, heterocyclics, phenols, and their derivatives; including organic synthesis and a comprehensive in-depth study of organic spectroscopy.

+CHM2211L, Organic Chemistry II Laboratory
3 hrs., 1 cr.
$49.00 lab fee
Corequisite: CHM2211.
An accompanying course to Organic Chemistry II. Designed to accompany the lecture. This laboratory enhances the student's understanding of lecture topics and teaches basic organic laboratory techniques.

CIS – COMPUTER SCIENCE AND INFORMATION STUDIES

+CIS2321, Systems Analysis and Design
3 hrs., 3 crs.
Prerequisite: Any programming language.
An introduction to the preparation of a system solution to a data processing problem which includes documentation of inputs, outputs, data flow, and a general description of runs and logic; consideration of a gross schedule of events required from project approval through detailed design programming, testing, and the new system phase-in. Actual case studies will be emphasized.

+CIS2351, Encryption and Cryptography
3 hrs., 3 crs.
Prerequisite: CTS1120.
Introduction to the basic theory and practice of cryptographic techniques used in computer security. Topics such and encryption, digital signatures, secure authentication, electronic commerce, key management, cryptographic hashing, internet voting systems, and a bit of zero-knowledge protocols will be discussed.

+CIS2352, Ethical Hacking I
3 hrs., 3 crs.
Prerequisites: CTS1120, CTS1134.
This course provides an in-depth understanding of how to effectively protect computer networks. Students will learn the tools and penetration testing methodologies used by ethical hackers. In addition, the course provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Students will learn updated computer security resources that describe new vulnerabilities and innovative methods to protect networks. Also covered is a thorough update of federal and state computer crime laws, as well as changes in penalties for illegal computer hacking.

+#CIS2359, Ethical Hacking II
3 hrs., 3 crs.
Prerequisite: CIS2352.
Continuation of CIS2352, Ethical Hacking I with an emphasis on advanced techniques.

+CIS2381, Computer Forensics and Incident Response
3 hrs., 3 crs.
$3.00 lab fee
Prerequisite: Permission of instructor.
The student will design and develop strategies for inspecting potentially corrupted servers, networks and workstations. In this hands-on course the student will practice detecting possible intrusions, inspecting log files, tracking violators. Students will practice computer forensic exercises using detection tools and tracking methodologies.

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*Minimum grade of "C" required.

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CJB – COLLEGE LEVEL APPLICATION IN
CRIMINAL JUSTICE

<#CJB1420, Gangs and Security Threat Groups
45 contact hrs., 3 crs.
This course is part of the Criminal Justice Standards and Training Commission Advanced Training Program. It is one of a series of non-sequential general or specialized skills training programs. Courses in the advanced training program are designed to enhance an officer's kno**w**ledge, skills, and abilities for the job he or she performs. This course provides an overview of investigating gangs and security threat groups for the officer and investigator with limited experience in this area. The course will provide a framework for a collaborative response or initiation of conducting investigations of gangs and security threat groups.

<#CJB1511, Inmate Manipulation
45 contact hrs., 3 crs.
This course is part of the Criminal Justice Standards and Training Commission Advanced Training Program. It is one of a series of non-sequential general or specialized skills training programs. Courses in the advanced training program are designed to enhance an officer's knowledge, skills, and abilities for the job he/she performs. The purpose of this course is to instruct corrections officers in physical and verbal strategies to deal with inmate manipulation in a professional and ethical manner.

<#CJB1750, Computer Crime Investigations
45 contact hrs., 3 crs.
This is part of the Criminal Justice Standards and Training Commission Advanced Training Program. It is one of a series of non-sequential advanced skills training designed to enhance an officer's knowledge, skills, and abilities. This course is designed to provide criminal justice officers with familiarization of computer crime investigative techniques and evidence preservation. Legal information is taught throughout the course as it relates to identity theft, fraud, child pornography/predator, and network sharing as well as providing basic investigative strategies and evidentiary considerations when conducting an investigation related to computers and similar technologies. Students will receive information that will encourage them to provide community awareness. Students should have successfully completed basic training or exempted and possess sufficient experience and background to meet the standard core of knowledge.

<#CJB2090, Special Tactical Problems
45 contact hrs., 3 crs.
An overview of special tactical problems for officers. Provides an understanding as well as working knowledge of special problems faced by law enforcement or corrections to include natural and man-made disorders.

<#CJB2404, CMS Field Training Officer (FTO)
45 contact hrs., 3 crs.
Introduction to all aspects of field training and evaluation programs; leadership and supervision, communication and counseling techniques, legal and ethical issues, and human motivation.

<#CJB2406, Defensive Tactics Instructor Course
80 contact hrs., 5 crs.
$7.00 Lab fee
Prerequisite: General CMS FDLE Instructor Certification.
Lab training in the methodology of psychomotor skills development, subject control, and arrest techniques. Training topics include legal issues, use of force matrix, facility development and management warm-up and flexibility exercises, performance testing, control techniques, impact weapons, emergency first aid, and use of tactical simulation.

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+<#CJB2801, Florida General Instructor Techniques
64 contact hrs., 4 crs.
Prerequisite: Three years of experience or special permission of chair of public safety.
A course designed to meet certification for law enforcement instructors as set forth by the Florida Criminal Justice Standards and Training Commission.

CJC - CORRECTIONS

#CJC1000, Introduction to Corrections
45 contact hrs. 3 crs.
This course will focus on the theory and practice of correctional institutions and their functions, the prison as a total institution, characteristics of various types of correctional methods, analysis of the prison community, adjustment to prison life, impact of institutionalization, corrections in the community, and historical development.

CJC2162, Probation and Parole
3 hrs., 3 crs.
This course focuses on the patterns and problems in sentencing offenders; the social investigation, treatment and counseling of offenders, including behavior modification; the release and processing of offenders, and efforts to reintegrate offenders into society.

<#CJC2350, Discipline and Special Confinement Techniques
45 contact hrs., 3 crs.
Designed to aid the correctional officer in effectively and properly performing the task requirements inherent in a confinement environment. The student will perform many of these tasks in practical exercises to demonstrate proficiency.

CJD – CRIMINAL JUSTICE DEVELOPMENT

=CJD0939, Correctional Officer Capstone
16 contact hrs., .5 vocational crs.
Comprehensive review of subjects taught in Correctional Officer Basic Standards. **This is a limited access course and requires admission to the Law Enforcement Training Program or Correctional Officer Training Program.**

<#CJD2672, School Resource Officer
45 contact hrs., 3 crs.
Instruction in juvenile law, counseling skills, development of a referral network, identification and ways to handle exceptional students and classroom instruction techniques. Participants will be exposed to current trends in school resource officer programs, law-related education ethics, and dealing with adolescent suicide.

CJE – LAW ENFORCEMENT

#CJE1000, Introduction to Law Enforcement
45 contact hrs., 3 crs.
This course is an introduction to the philosophical and historical background of law enforcement. This course covers the organization, purpose and functions of law enforcement and other agencies involved in the administration of criminal justice in the United States. It includes career education.

#CJE1300, Police Organization and Administration
45 contact hrs., 3 crs.
This course covers the principles of organization and administration in law enforcement, to include functions and activities, planning and research, public relations, personnel and training, inspection and control, and policy formulation.

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<#CJE1306, Middle Management
45 contact hrs., 3 crs.
This course is part of the Criminal Justice Standards and Training Commission Advanced Training Program. It is designed to teach the criminal justice practitioner principles for Mid-level Management within their respective criminal justice organizations.

+#CJE1405, Managing and Communicating with Inmates and Offenders
45 contact hrs., 3 crs.
Prerequisites: Students should have successfully completed the Law Enforcement, Correctional, or Correctional Officer Basic Training course or have been exempted and possess sufficient experience and background to meet the standard core of knowledge. Officers must have successfully passed the State Officer Certification Exam. Officers who successfully complete the Managing and Communicating with Officers course may be eligible for salary incentive payments, or may apply this course toward satisfying their mandatory retraining requirements, per Florida Statutes.
This course is part of the Criminal Justice Standards and Training Commission Advanced Training Program. It is one of a series of non-sequential general or specialized skills training programs. Courses in the Advanced (or Specialized) Training Program are designed to enhance an officer's knowledge, skills, and abilities for the job he/she performs. The law enforcement, correctional, and correctional probation officer and supervisor may realize an increased level of safety and management skills at the completion of the course. The course provides information about social, emotional, and organizational intelligence to enhance human interaction skills. Information and student participation includes practice of the communication skills. This course may be helpful for officers communicating with individuals who have mental illness, substance abuse, and co-occurring disorders. **This is a limited access course.**

+#CJE1406, Spanish for Criminal Justice Professionals
45 contact hrs., 3 crs.
Prerequisites: Students should have successfully completed the Law Enforcement, Correctional, or Correctional Officer Basic Training course or have been exempted and possess sufficient experience and background to meet the standard core of knowledge. Officers must have successfully passed the State Officer Certification Exam. Officers who successfully complete the Spanish for Criminal Justice Professionals course may be eligible for salary incentive payments, or may apply this course toward satisfying their mandatory retraining requirements, per Florida Statutes.
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#CJE1500, Police Operations
45 contact hrs., 3 crs.
This course provides an overview of the principles of organization and administration as they apply to police organizations. Topics include the responsibilities and activities of the many units and divisions within a law enforcement agency.

#CJE1544, Laser and Radar Speed Measurement
45 contact hrs., 3 crs.
Prerequisites: Students should have successfully completed the Law Enforcement Basic Training course or have been exempted and possess sufficient experience and background to meet the standard core of knowledge. Officers must have successfully passed the State Officer Certification Exam. Officers who successfully complete the Laser and Radar Speed Measurement course may be eligible for salary incentive payments, or may apply this course toward satisfying their mandatory retraining requirements, per Florida Statutes.
This course is designed for the law enforcement officer whose duties include speed enforcement to improve the officer's effectiveness in speed enforcement through the proper and efficient use of police traffic radar and laser speed measurement devices.

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#CJE1640, Introduction to Crime Scene Technology
45 contact hrs., 3 crs.
$25.00 lab fee
This course will provide an introduction to various methods of crime scene investigation and the scientific principles that govern them. Emphasis will be on the Locard Exchange Principle and sequential evidence processing.

+#CJE1643, Advanced Crime Scene Technology
45 contact hrs., 3 crs.
Prerequisite: CJE1640.
This course covers advanced principles, theories, and applications in crime scene technology. An overview of specialized collection procedures of weapons, traffic crash evidence, arson, gunshot residue, blood splatter, and recovery of buried bodies and surface skeletons are included.

#CJE1770, Crime Scene Photography I
45 contact hrs., 3 crs.
This course includes basic photographic skills including camera operation and exposure control. It is a hands-on course that will build basic proficiency in documenting a crime scene. Each student should have access to a digital camera and software to process the pictures.

+#CJE1772, Advanced Crime Scene Photography
45 contact hrs., 3 crs.
Prerequisite: CJE1770.
This course includes basic photographic skills including camera operation and exposure control. It is a hands-on course that will build basic proficiency in documenting a crime scene. Each student should have access to a digital camera and software to process the pictures.

#<CJE2031, Advanced Report Writing and Review
45 contact hrs., 3 crs.
Designed to provide focused review and practice of the basic elements necessary for effective writing in any situation or any type of report.

#<CJE2304, Line Supervision
80 contact hrs., 5 crs.
Provides students with the knowledge and skills needed to function effectively as law enforcement supervisors. Major topics include interpersonal communications, principles of organization and management, human relations, planning and development, policy formulation, and budgeting.

<CJE2308, Developing and Maintaining a Sound Organization
45 contact hrs., 3 crs.
Developing/maintaining a sound organization general concepts and principles of organization and organizational structures.

<CJE2309, Building and Maintaining a Sound Behavioral Climate
45 contact hrs., 3 crs.
Framework for integrating factors which affect the behavioral climate of an organization to include philosophy of management, agency mission, leadership styles, control system, environmental pressures, expectation of agency members, and policies and procedures.

#CJE2400, Police Community Relations
45 contact hrs., 3 crs.
This course provides an understanding of the complex factors involved in human relations between the community and law enforcement. The police role and nature, meaning, and implications of professionalism in policing are explored in order to provide a better understanding of the necessity for a successful police-citizen partnership.

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#<CJE2404, Community and Human Relations
45 contact hrs., 3 crs.
Goals, rationale, and principles of community and human relations.

#<CJE2534, CMS Firearms Instructor Course
45 contact hrs., 3 crs.
$162.00 lab fee
Designed for law enforcement, corrections, and correctional probation officers to acquire the necessary skills to become firearms instructors. Emphasis on both technical and practical applications of the revolver, semiautomatic, riot shotgun, and rifle with emphasis on instructor techniques and methodology. The student must successfully pass a written exam with a minimum score of 80% and CJSTC handgun and shotgun course with an above average score (90% or better) and a practical in each respective area. Students are required to provide an approved duty weapon, a safe duty holster and at least two extra speed loaders or magazines. GCCC will provide riot shotguns and AR-15 rifles. The lab fee covers support materials, safety gear, and ammunition for .38 cal., .357 cal., 9 mm, .40 cal. shotgun, and rifle.

+#<CJE2536, CMS Basic Law Enforcement Driving Instructor Course
45 contact hrs., 3 crs.
$45.00 lab fee
Prerequisites: CJB2801, General/CMS
Principles for driver instructor. Topics include legal issues in driving instruction, facility development and management, the Basic Recruit curriculum, problems in driving instruction, and evaluation techniques.

<#CJE2564, Domestic Intervention
45 contact hrs., 3 crs.
Provides an enhanced awareness of domestic intervention symptoms and techniques, including information and case studies on specific domestic and social problems.

<CJE2565, Crisis Intervention
45 contact hrs., 3 crs.
Provides patrol officers and investigators with a working knowledge of the dynamics of crisis situations and the ability to deal effectively with humans under extreme stress. Emphasis will be placed on situation assessment, recognition of major types of aberrant behavior, the ethnic and cultural elements of behavior, and calming techniques.

#<CJE2567, CMS First Aid Instructor Course
45 contact hrs., 3 crs.
$18.00 lab fee
This course is a specialized instructor course that provides the required training an officer must have to apply for a High-Liability Instructor Certification in First Aid for Criminal Justice Officers. Instructor students must possess a General Instructor Certification or be eligible for and apply for the General Instructor Certification at the same time as the High-Liability Instructor Certification. They should possess sufficient experience to meet the standard core of knowledge, pursuant to the requirements outlined in this course.

#<CJE2570, Narcotics and Dangerous Drug Investigations
45 contact hrs., 3 crs.
Curricula developed by U.S. Drug Enforcement Administration for teaching law enforcement officers essential concepts and techniques in the area of drug and drug-related crimes.

<#CJE2582, Investigative Interview
 45 contact hrs., 3 crs.
Techniques, methods, principles, and legal aspects of conducting interviews and interrogations. Emphasis will be placed on documentation of interrogations, coping with deception, evidentiary uses of confessions, and admissions and lie detection techniques. Individual expertise developed through role playing and other practical exercises.

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#CJE2600, Introduction to Criminal Investigations
45 contact hrs., 3 crs.
This course is a survey of the methods and techniques used by contemporary criminal justice agencies in criminal investigation and its role in society.   The course will include studies of such aspects as the discovery of evidence and its preservation and marking, fingerprinting, and identification. The course will also explore the identification and elements of homicide, burglary, robbery, and narcotics violations.

<#CJE2633, Sex Crimes Investigation
45 contact hrs., 3 crs.
An overview of sex crimes investigation for the patrol officer and investigator with limited experience in this field. Provides an understanding of the problematic, legal, investigative, and evidentiary aspects of sex crimes.

#<CJE2634, Injury and Death Investigation
45 contact hrs, 3 crs.
Designed to teach the criminal justice practitioner goals, rationale, and principles for investigating injuries and deaths.

#CJE2640, Introduction to Forensic Science
3 hrs., 3 crs.
This course will expose the student to the capabilities of a full service crime lab. It will also cover chain of custody and evidence submission.

#CJE2644, Crime Scene Safety
2 hrs., 2 crs.
The student will be exposed to the major issues of concern regarding safety at the crime scene. Emphasis will be placed on chemical and biological exposure. Protective procedures and equipment will be emphasized.

+#CJE2671, Latent Fingerprint Development
3 hrs., 3 crs.
$25.00 lab fee
Prerequisite: CJE2672.
This course covers the techniques involved in detection, enhancement, and recovery of latent fingerprints from physical evidence. Chemical and mechanical methods will be taught for use on varying surfaces.

#CJE2672, Fingerprint Classification
3 hrs., 3 crs.
This course teaches the student how to classify, file, and identify inked fingerprints and compare them to unknown fingerprints.

#CJE2676, Biological Evidence
2 hrs., 2 crs.
This course exposes the student to the forensic value, collection, handling, preservation, testing, and documentation of biological evidence. It also addresses safety issues in handling biological evidence.

<CJE2702, Stress Management Techniques
45 contact hrs., 3 crs.
Designed to enhance the law enforcement and correctional officer's ability to deal with stressful situations. Results of stress and physiological/ psychological methods of controlling stress are covered.

<CJE2704, Investigating Crimes Against Children
45 contact hrs., 3 crs.
This is part of the Criminal Justice Standards and Training Commission Advanced Training Program. It is one of a series of non-sequential advanced skills training program. Courses in the Advanced Training Program are designed to enhance an officer's knowledge, skills, and abilities for the job he/she performs. This course is designed to provide the inexperienced officer with the advanced skills necessary to effectively investigate crimes against children. Students should have successfully completed the

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Basic Training course or have been exempted and possess sufficient experience and background to meet the standard core of knowledge. Officers who successfully complete this course may be eligible for salary incentive payments, or may apply this course toward satisfying their mandatory retraining requirements, per Florida Statutes.

<CJE2730, Substance Abuse Awareness and Education
45 contact hrs., 3 crs.
Covers methodologies necessary to educate the community through various modes of presentation on current and critical issues relevant to drug abuse.

#<CJE2770, Organized Crime for Law Enforcement
45 contact hrs., 3 crs.
Specific techniques of recognition, classification, and effective investigation. Specific organized crimes include prostitution, gambling, arson, loan sharking, pornography, narcotics, and contract killing.

CJJ – JUVENILE JUSTICE

#CJJ1001, Crime and Delinquency
45 contact hrs., 3 crs.
This course presents a general view of the juvenile delinquency problem, to include current theories of crime and delinquency, causal factors and treatment.

CJJ2002, Juvenile Justice
3 hrs., 3 crs.
This course examines the public policy issues pertaining to juvenile delinquency and dependency. The *parens patriae* doctrine is examined in theory and in practice as the fundamental philosophical basis for evolution of the contemporary American juvenile justice system. Major topics explored include causes of delinquency, societal responses, and trends indicative of future directions in juvenile justice.

CJK – CRIMINAL JUSTICE BASIC TRAINING
(VOCATIONAL)

+=CJK0001, Introduction to Law Enforcement
10 contact hrs., 0.3 vocational crs.
$7.00 lab fee
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should be able to understand the values and ethics required for criminal justice officers, understand the consequences of sexual harassment, describe the criminal justice system, and describe the structure of criminal justice agencies. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

+=CJK0007, Introduction to Law Enforcement
11 contact hrs., 0.4 vocational crs.
$8.00 lab fee
Prerequisite: Admission to the Law Enforcement Training Program and permission of Law Enforcement Program Coordinator.
This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. By the end of this course students should be able to understand the values and ethics required for criminal justice officers; understand the consequences of sexual harassment; and, be able to describe the criminal justice system. **This is a limited access course. It requires admission to the Law Enforcement Training Program.**

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+=CJK0008, Legal
69 contact hrs., 2.3 crs.
Prerequisite: Admission to the Law Enforcement Training Program and permission of Law Enforcement Program Coordinator. This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. By the end of this course, students should understand the Fourth Amendment related to search and seizure; know what constitutes a lawful arrest; understand the Fifth and Sixth Amendments related to the interrogation of suspects; determine when a crime has been committed and the elements necessary to make an arrest for that crime; understand the legal rules and concepts of evidence; know how to draft a probable cause affidavit; be able to articulate the legal justification for the use of force; understand civil and criminal liability related to an officer's performance of duties; understand an officer's duties and options in civil (non-criminal) incidents; and be familiar with the legal considerations when dealing with juveniles. **This is a limited access course. It requires admission to the Law Enforcement Training Program.**

+=CJK0009, Law Enforcement Capstone Course
24 contact hours, .8 vocational crs.
Prerequisites: **This is a limited access course. It requires admission to and completion of the Law Enforcement Training Program.**
This course is designed to provide substantive course review of the criminal justice standards and training basic law enforcement curriculum. Diligent use of review materials in this course will serve as excellent preparation for the FDLE Law Enforcement Officer State Certification Exam.

+=CJK0011, Human Issues
40 contact hrs., 1.3 vocational crs.
This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. By the end of this course students should be able to respond to a crisis call, identify the crisis, recognize the legal responsibilities and options available to the officer, and provide the most appropriate intervention to complete the call; respond to a call involving an individual with a disability, recognize the signs and symptoms specific to the disability, and provide the most appropriate intervention; respond to a crisis call involving a suicidal individual, assess the risk of suicide, and provide the most appropriate intervention to help calm the situation; respond to a call involving an elderly individual, assess the crisis, and provide the most appropriate intervention; respond to a call involving a juvenile, assess the behavioral characteristics, and provide the most appropriate intervention; respond to a call involving substance abuse, apply officer safety concerns, identify the substance and paraphernalia at the scene, and provide the most appropriate intervention. **This is a limited access course. It requires admission to the Law Enforcement Training Program.**

+=CJK0012, Legal
62 contact hrs., 2.1 vocational crs.
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should understand the Fourth Amendment related to search and seizure, know what constitutes a lawful arrest, understand the Fifth and Sixth Amendments related to the interrogation of suspects, determine when a crime has been committed and the elements necessary to make an arrest for that crime, understand the legal rules and concepts of evidence, be able to articulate the legal justification for the use of force, understand civil and criminal liability related to an officer's performance of duties, understand an officer's duties and options in civil (noncriminal) incidents, and be familiar with the legal considerations when dealing with juveniles. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

+=CJK0013, Interactions in a Diverse Community
40 contact hrs., 1.3 vocational crs.
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should be able to identify the elements of, and barriers to, effective communication. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

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+=CJK0014, Interviewing and Report Writing
56 contact hrs., 1.9 vocational crs.
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should be able to prepare and conduct basic interviews, gather information, take notes, identify signs of deception, obtain statements; identify types of reports, forms, and logs, including crimes, incidents, use of force, disciplinary, traffic crashes; organize information chronologically and categorically; write reports, apply appropriate grammar and mechanics, apply agency procedures, evaluate report prior to submission, and draft probable cause affidavits. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

+=CJK0017, Communications
76 contact hrs., 2.5 vocational crs.
Prerequisite: Admission to the Law Enforcement Training Program and permission of Law Enforcement Program Coordinator
This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. By the end of this course students should be able to use radio equipment properly; identify elements of a crime; identify the communication audience; gather information at a crime scene; conduct basic interviews; identify root causes of miscommunication; organize information chronologically; organize information categorically; document information; take statements; classify reports appropriately; apply appropriate grammar mechanics; write reports; and complete arrest/probable cause affidavits. **This is a limited access course and requires admission to the Law Enforcement Training Program.**

+=CJK0020C, Law Enforcement CMS Vehicle Operation
48 contact hrs., 1.6 vocational crs.
$45.00 lab fee
Prerequisite: CJK0005 or CJK0006.
This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit CMS Certification Program. This course is designed to prepare prospective officers to apply vehicle operations knowledge, principles and techniques to the police driving environment. This course includes classroom instruction and practical application on the driving range. **This is a limited access course requiring admission to the Criminal Justice Training Academy Law Enforcement Training Program.**

+=CJK0031C, CMS First Aid for Criminal Justice Officers
40 contact hrs., 1.3 vocational crs.
$12.00 lab fee
Prerequisite: CJK0005 or CJK0006 (L.E. only).
This course is part of the Criminal Justice Standards and Training Commission's CMS Basic Recruit Certification Program. It is designed to prepare prospective officers to apply first aid knowledge and techniques to medical emergency situations. This course involves classroom lecture and hands-on practical demonstration. **This is a limited access course and requires admission to the Law Enforcement Training Program.**

=CJK0040C, Law Enforcement CMS Criminal Justice Firearms
80 contact hrs., 2.7 vocational crs.
$310.00 lab fee
This course is part of the Criminal Justice Standards and Training Commission's CMS Basic Recruit Certification Program. At the end of this course, students should be able to demonstrate safe weapon handling, weapons cleaning and maintenance, handgun drawing and holstering, weapon loading and unloading, basic shooting principles, proficiency on the CJSTC basic firearms courses of firing with a handgun during daylight and nighttime, and a shotgun during daylight. **This is a limited access course and requires admission to the Law Enforcement Training Program or Correctional Officer Training Program.**

=CJK0051C, CMS Criminal Justice Defensive Tactics
80 contact hrs., 2.7 vocational crs.
$12.00 lab fee
This course is part of the Criminal Justice Standards and Training Commission Basic Recruit Certification Program. This course is designed to better prepare prospective officers to control subjects and defend themselves using appropriate defensive tactics.

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\#Applies only to A.S. degree, A.A.S. degree, and certificate programs.
+Prerequisite and/or corequisite required.
=PSAV course.
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*Minimum grade of "C" required.

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At the end of this course, students should be able to make an accurate threat assessment of a situation, use force appropriate to the subject resistance and situational factors, demonstrate a prevailing attitude and the willingness and ability to fight when necessary, use integrated force options, escalate, de-escalate, or disengage in a situation as appropriate, perform defensive tactics techniques with proficiency. **This is a limited access course and requires admission to the Law Enforcement Training Program or Correctional Officer Training Program.**

+=CJK0061, Patrol-1
58 contact hrs., 1.9 vocational cr.
Prerequisite: Admission to Law Enforcement Training Program and permission of the Law Enforcement Program Coordinator. This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. By the end of this course students should understand Community Oriented Policing and how it is implemented as a problem-solving model; identify the SECURE problem-solving model and its application in real life situations; understand officer safety issues; identify and avoid fatal errors; identify and manage stress; maintain mental and physical fitness; respond to a call; approach a suspect; make an arrest; transport a prisoner and process the prisoner at a detention facility; understand how to direct traffic and how to enforce traffic citations; identify how to respond to alarms and conduct a building search; and search, inventory and impound vehicles. **This is a limited access course and requires admission to the Law Enforcement Training Program.**

+=CJK0062, Patrol 2
40 contact hrs., 1.3 vocational crs.
Prerequisite: Admission to Law Enforcement Training Program and permission of the Law Enforcement Program Coordinator. This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. By the end of this course students should be able to complete and pass Unit 1, ICS-100 Introduction to the Incident Management System and Unit 2, IS-700 National Incident Management System (NIMS); identify the crowd control procedures to safely and effectively disperse or control a large group of people; identify issues affecting an officer's ability to protect and enforce the law when dealing with criminal street gangs and extremist groups; understand local emergency response plans; law enforcement duty-to-act requirements and their role as first responders; be aware of hazardous material class, name or identification numbers; identify actions to take to isolate a HAZMAT incident and choose protective actions to take in accordance with the Emergency Response Guidebook (ERG); describe methamphetamine, methamphetamine users, and the paraphernalia and chemicals used to manufacture methamphetamine; respond to a bomb threat, assess the scene, search and evacuate a building or suspected bomb sight; identify weapons of mass destruction (WMD), and properly respond to a WMD incident. **This is a limited access course and requires admission to the Law Enforcement Training Program.**

+=CJK0064, Fundamentals of Patrol
35 contact hrs., 1.1 vocational crs.
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should be able to use radio equipment properly, identify the uses of mobile computer devices, and understand the uses of FCIC/NCIC/NLETS and other electronic database resources; understand community-oriented policing and how it is implemented as a problem-solving model, and identify the SARA problem-solving model and its application in real life situations; understand officer safety issues, identify and avoid fatal errors, identify and manage stress, and maintain mental and physical fitness; and prepare to patrol, know what a BOLO is and how to create and cancel a BOLO, respond to a call, approach a suspect, set up a perimeter, conduct a building search, make an arrest, transport a prisoner, and process the prisoner at a detention facility. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

+=CJK0065, Calls for Service
36 contact hrs., 1.2 vocational crs.
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should be able to respond to calls for service, including well-being and security checks, building alarms, environmental hazards, transportation requests, animal complaints, death notifications, and special event security; respond to disturbances, including crowd control, civil disturbances, civil standbys, and disorderly or irate people; respond to court orders, including arrests and civil processes, and assist with the execution of

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search warrants; respond to calls concerning vehicle fires, unattended, abandoned, or disabled vehicles, and roadway obstructions or damage; enforce parking violations, impound a vehicle, direct vehicle traffic, and direct pedestrian traffic; respond to people in crisis, including suicide incidents, threats from mental impairments, and situations involving alcohol or substance abuse. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

+=CJK0071, Criminal Investigations
56 contact hrs., 1.9 vocational crs.
Prerequisite: Admission to Law Enforcement Training Program and permission of the Law Enforcement Program Coordinator. This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. By the end of this course students should be able to respond appropriately to a crime against a person or property, victim, witness, and suspect; conduct a preliminary investigation of crimes against persons and crimes against property offenses; conduct a follow-up investigation to establish a suspect's identity and/or ascertain facts of the case; give testimony in different types of court proceedings. **This is a limited access course and requires admission to the Law Enforcement Training Program.**

+=CJK0075, LE CMS Investigation of Offenses
44 contact hrs., 1.5 vocational crs.
Prerequisite: Permission of coordinator.
This course is part of the criminal justice standards and training commission Basic Recruit CMS Certification Program. The purpose of this course is to introduce the student to the process of investigating specific offenses, such as domestic disputes/violence, child abuse, and other crimes against persons, missing or wanted persons, and working with mentally or emotionally handicapped individuals.

+=CJK0076, Crime Scene Investigations
24 contact hrs., 0.8 vocational crs.
Prerequisite: Admission to Law Enforcement Training Program and permission of the Law Enforcement Program Coordinator. This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. By the end of this course students should be able to respond to a crime scene; protect and survey a crime scene; process a crime scene; dust for latent prints; and document a crime scene by sketching. **This is a limited access course. It requires admission to the Law Enforcement Training Program.**

+=CJK0077, Criminal Investigations
50 contact hrs., 1.7 vocational crs.
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should be able to conduct an initial investigation of crimes against persons, society, property, and economic crimes. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

+=CJK0078, Crime Scene to Courtroom
35 contact hrs., 1.1 vocational crs.
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should be able to process a crime scene, conduct a follow-up investigation, and provide testimony in different types of court proceedings. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

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*Minimum grade of "C" required.

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+=CJK0082, Traffic Stops
24 contact hrs., 0.8 vocational crs.
Prerequisite: Admission to Law Enforcement Training Program and permission of the Law Enforcement Program Coordinator. This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. This course is intended to introduce the student to Florida traffic law and procedures for conducting safe and legal traffic stops.

+=CJK0083, DUI Traffic Stops
24 contact hrs., 0.8 vocational crs.
Prerequisite: Admission to Law Enforcement Training Program and permission of the Law Enforcement Program Coordinator. This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program.
This course is designed to familiarize the student with the procedures and safety issues related to driving under the influence (DUI) traffic stops.

+=CJK0084, DUI Traffic Stops
24 contact hrs., 0.8 vocational crs.
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should be able to understand the problem of and solutions for DUI, identify the DUI laws and related legal issues, identify the signs of alcohol or drug impairment, conduct a DUI traffic stop, follow the three-phase process of a DUI contact, demonstrate proficiency in conducting the Standardized Field Sobriety Tests, make an arrest decision based on specific clues, accurately complete the required documentation for a DUI arrest, and provide clear and convincing evidence of DUI in court testimony. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

+=CJK0086, Traffic Crash Investigations
32 contact hrs., 1.1 vocational crs.
Prerequisite: Admission to Law Enforcement Training Program and permission of the Law Enforcement Program Coordinator. This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. By the end of this course students should know the terms associated with traffic crash investigations; safely respond to a traffic crash scene; assess the scene of the crash; provide emergency assistance to injured persons, if necessary; obtain pertinent information to investigate the crash; document the crash on the Florida Crash Report Form; return the scene to normal as quickly as possible and take appropriate enforcement action.

+=CJK0087, Traffic Stops
30 contact hrs., 1 vocational cr.
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should be able to safely pull over a vehicle; identify and articulate the stop/violation; obtain necessary information from the driver/passenger; safely complete the stop; safely effect an arrest; and accurately complete the required documentation for a traffic stop. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

+=CJK0088, Traffic Crash Investigations
32 contact hrs., 1.1 vocational crs.
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should be able to define and explain the terms and legal considerations associated with crash investigations, respond to a crash scene safely, assess a crash scene properly, secure a safe work environment at a crash scene, provide emergency medical assistance to injured people at a crash scene if necessary, obtain pertinent information about a crash to determine how and why it occurred, identify crimes revealed during a crash investigation if any, return a crash scene to normal as quickly as possible, complete driver exchange of information properly, take appropriate enforcement action, and document a crash correctly in appropriate crash report form. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

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+=CJK0090, LE CMS Tactical Applications
54 contact hrs., 2 vocational cr.
Prerequisite: Permission of coordinator.
This course is part of the Criminal Justice Standards and Training Commission CMS Basic Recruit Certification Program. This course is designed to familiarize the student with the court process, court procedures, steps to take in preparing to give testimony, and techniques for giving credible testimony. Students will also be instructed in the identification of common types of bombs, how to make quick searches and evacuate persons from suspected areas when authorized and to recognize signs and symptoms of weapons of mass destruction.

+=CJK0092, Critical Incidents
44 contact hrs., 1.5 vocational crs.
Prerequisite: Admission to the Law Enforcement Officer or Criminal Justice Technology program.
By the end of the course students should be able to complete and pass Unit 1, IS-100.LEb, Introduction to the Incident Command System and Unit 2, IS-700.a, National Incident Management (NIMS), An Introduction ; understand local emergency response plans, law enforcement duty-to-act requirements, and the role of law enforcement officers as first responders; know how to respond to an active shooter incident; plan for response to a natural disaster; identify weapons of mass destruction (WMD) and properly respond to a WMD incident,
including IEDs and VBIEDs; be aware of hazardous material class, name or identification number, identify actions to take to isolate a hazmat incident and choose protective actions to take in accordance with the Emergency Response Guidebook (ERG); recognize the indicators of and paraphernalia used in the manufacture of methamphetamine; describe the indicators of chemical suicide; properly respond to a bomb threat, and assess the scene. **This is a limited access course. It requires admission to the Law Enforcement Officer or Criminal Justice Technology program.**

+=CJK0096, Criminal Justice Officer Physical Fitness Training
60 contact hrs., 2.0 vocational crs.
Prerequisite: Admission to Law Enforcement Training Program and permission of the Law Enforcement Program Coordinator.
This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. By the end of this course students should be able to improve their scores on the final fitness evaluation; and adopt a foundation for lifelong fitness. **This is a limited access course. It requires admission to the Law Enforcement Training Program.**

=CJK0100, C.O. Interpersonal Skills I
62 contact hrs., 2 vocational crs.
Designed to teach rationale, techniques, and principles of community relations techniques and courtesy and how to deal with inmates with special problems. (Limited access; requires admission to the Academy or special permission of chair of public safety.)

=CJK0101, C.O. Interpersonal Skills II
50 contact hrs., 1.5 vocational crs.
Designed to teach rationale, techniques, and principles of supervision of incarcerated persons, with emphasis on interpersonal skills. (Limited access; requires admission to the Academy or special permission of chair of public safety.)

=CJK0102, Correctional Facility Operations
64 contact hrs., 2 vocational crs.
Designed to teach rationale, techniques, and principles of the operation of a correctional facility. (Limited access; requires admission to the Academy or permission of the chair of public safety.)

=CJK0204, Law Enforcement Cross-Over to Correctional Introduction
59 contact hrs., 2 vocational crs.
This course is part of the Criminal Justice Standards and Training Commission's Law Enforcement Officer Cross-Over Training to Traditional Correctional Basic Recruit Training program. It is designed to introduce the Law Enforcement Cross-Over recruit to the field of corrections, with emphasis in the areas of ethical and professional behavior, history of corrections, philosophies of

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corrections, inmate rights and responsibilities, search and seizure concepts, extortion, assault and battery, sexual battery and sex crimes, human behavior and human needs, juvenile and youthful offenders, orientation to crisis intervention techniques, and suicide prevention and intervention. (Limited access; requires admission to the Academy or special permission of chair of public safety.)

=CJK0212, Cross-Over Correctional to Law Enforcement CMS High-Liability
8 contact hrs., 0.3 vocational crs.
This course is part of the Criminal Justice Standards and Training Commission's Law Enforcement Officer Cross-Over Training to Traditional Correctional Basic Recruit Training program.
This course is designed to provide transitioning correctional officers the firearms training (night-firing) required for the new discipline not previously completed by the officer. Qualification with the weapon is required.

=CJK0270, C.O. Legal I
46 contact hrs., 1.5 vocational crs.
Designed to teach rationale, techniques, and principles of the criminal justice system and the history of law and corrections. (Limited access; requires admission to the Academy or special permission of chair of public safety.)

+=CJK0280, C.O. Physical Fitness Training
40 contact hours, 1.3 vocational crs.
Prerequisite: Admission to Criminal Justice Training Academy or coordinator approval.
This course is part of the Criminal Justice Standards and Training Commission Correctional Officer Basic Standards certification program. This course is designed to prepare recruits physically to perform the duties of a correctional officer by required participation in 40 hours of fitness training dispersed throughout the academy. This course consists of physical fitness training which requires a physical skills evaluation of each participant during the first two weeks of training and again during the last two weeks of training, with the desired outcome of performance improvement on the final evaluation. This course also includes a wellness nutritional component which covers the basic elements of nutrition, weight control, and stress management to improve overall health.

= CJK0285, C.O. Legal II
22 contact hrs., 1 vocational cr.
Designed to teach rationale, techniques, and principles of constitutional and statutory law. (Limited access; requires admission to the Academy or permission of chair of public safety.)

+= CJK0286, C.O. Communications
42 contact hrs., 1.5 vocational crs.
Prerequisite: Admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.
Designed to teach rationale, techniques, and principles of communicating within the criminal justice network. **This is a limited access course and requires admission to the Criminal Justice Training or special permission of Chair of Public Safety.**

+=CJK0300, Introduction to Corrections
32 contact hrs., 1 vocational cr.
$8.00 lab fee
Prerequisite: Admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.
This course provides an overview of the correctional officer training program and the requirements for becoming a certified officer. This course will also help to provide a legal basis from which students may begin to function as correctional officers and gives instruction on basic criminal justice values, ethics, and ways to demonstrate professionalism when interacting with others. Students will also learn the command structure within a criminal justice agency. **This is a limited access course and requires admission to the Law Enforcement Training Program or Correctional Officer Training Program.**

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*Minimum grade of "C" required.

+=CJK0305, Communications
40 contact hrs., 1.3 vocational crs.
Prerequisite: Admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.
This course provides practical communications skills that will assist new correctional officers in managing and supervising inmates, giving directions, answering questions, and interacting with others in a professional and safe manner. **This is a limited access course and requires admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.**

+=CJK0310, Officer Safety
16 contact hrs., 0.5 vocational crs.
Prerequisite: Admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.
This course provides an overview of safety and security concerns, identification, manipulation and deception, contraband, and searches correctional officers deal with on a daily basis. **This is a limited access course and requires admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.**

+=CJK0315, Facility and Equipment
8 contact hrs., 0.3 vocational crs.
Prerequisite: Admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.
Correctional officers are responsible for equipment and materials used to keep correctional facilities clean, safe and secure. It is important for a correctional officer to have a basic knowledge of standard equipment used, including weapons, hazardous materials, and sensitive supplies. Officers must be very familiar with common problems found when managing equipment; this course will help them complete their duty to support the safe and efficient operation of equipment, and to provide a safe environment for inmates, staff and visitors. **This is a limited access course and requires admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.**

=CJK0320, Intake and Release
18 contact hrs., 0.6 vocational crs.
Prerequisite: Admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.
This course will introduce students to the intake, classification, and release processes used by county and state correctional facilities. **This is a limited access course and requires admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.**

+=CJK0325, Supervising in a Correctional Facility
40 contact hrs., 1.3 vocational crs.
Prerequisite: Admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.
This course will teach students that the primary activity of the correctional officer is the care, custody, and control of inmates. By developing supervisory and observational skills, practicing officer safety, and following the policies and procedures of his or her agency, the officer will ensure the safe operation of a correctional facility while fulfilling his or her responsibilities. **This is a limited access course and requires admission to the Criminal Justice Training Academy.**

+=CJK0330, Supervising Special Populations
20 contact hrs., 0.7 vocational crs.
Prerequisite: Admission to Law Enforcement Training Program.
This course provides students with the necessary insight needed while supervising special populations housed in county and state correctional facilities. These special populations groups have individual characteristics. The most common of these groups will be discussed in this course. **This is a limited access course and requires admission to the Law Enforcement Training Program.**

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+=CJK0335, Responding to Incidents and Emergencies
16 contact hrs., 0.5 vocational crs.
Prerequisite: Admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.
This course will discuss that one of the most important duties of a correctional officer is to apply knowledge, training and reasonable judgment to ensure the safety and security of all persons at the facility during an emergency. **This is a limited access course and requires admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.**

+=CJK0340, Officer Wellness and Physical Abilities
30 contact hrs., 1 vocational cr.
Prerequisite: Admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.
This course will offer an introduction into the officer wellness and physical abilities standards set forth by the criminal justice standards and training commission. **This is a limited access course and requires admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.**

+=CJK0422, Dart Firing Stun Gun
8 contact hrs., 0.3 vocational crs.
$35.00 lab fee
Prerequisite: Admission to Law Enforcement Training Program and permission of the Law Enforcement Program Coordinator. This course is part of the Criminal Justice Standards and Training Commission Law Enforcement Basic Recruit certification program. By the end of this course students be able to identify the use of a dart-firing stun gun (DFSG) in accordance with F.S. §943.1717; identify and articulate CJSTC DFSG considerations and their impact on officers in Florida; identify and articulate the possible effects that a DFSG has on the human body; properly and safely operate a DFSG; articulate (verbally and in reports) the justification for tactical options chosen while participating in DFSG simulated scenarios including the use of verbal skills to de-escalate a situation, and avoid the use of a DFSG. **This is a limited access course. It requires admission to the Law Enforcement Training Program.**

=CJK0480, Emergency Preparedness in Correctional Institutions
26 contact hrs., 1 vocational cr.
Designed to teach rationale, techniques, and principles of emergency preparedness. **This is a limited access course and requires admission to the Criminal Justice Training Academy or special permission of the Chair of Public Safety.**

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CJL – LAW & PROCESS

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#CJL1104, Case Preparation and Court Presentation
45 contact hrs., 3 crs.
Provides information necessary for effective criminal case preparation for court. Includes case file utilization, pre-trial discovery, depositions, plea bargaining, pre-trial conference, court testimony, and post-adjudication responsibilities.

#CJL2062, Rules of Evidence
45 contact hrs., 3 crs.
This course covers the rules of evidence and their exclusions and exceptions; procedures for the introduction of evidence and the examination of witnesses; and the doctrine on offer and motions to suppress evidence. Concentration is on areas important to criminal justice practitioners in the investigation of crimes and prosecution of persons accused of crimes.

CJL2100, Criminal Law
 3 hrs., 3 crs.
A study of substantive criminal law from the Model Penal Code, explaining the specific elements of major crimes, principles of criminal law, principles of criminal liability, defenses to criminal liability, uncompleted crimes, and parties to crimes.

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CJL2130, Evidence
3 hrs., 3 crs.
This course provides an analysis and examination of the Federal Rules of Evidence (FRE). The FRE govern the admissibility of evidence at trial. Course material will cover examination of witnesses and trial procedures, testimonial evidence, documentary evidence, circumstantial evidence, opinion evidence, the best evidence rule, hearsay evidence and exceptions, presumptions, and judicial notice.

<CJL2205, Florida Criminal Law
45 contact hrs., 3 crs.
Designed to teach the criminal justice practitioner goals, rationale, and principles for the Florida Criminal Law course of study.

#CJL2610, Courtroom Presentation of Scientific Evidence
3 hrs., 3 crs.
This course covers preparation of evidence and presentation of evidence in a court of law. Heavy emphasis will be placed on the legal aspects of crime scene investigation. The student will prepare visual aids relating to scientific testimony and participate in mock trial exercises.

CJT – CRIMINAL JUSTICE TECHNOLOGIES

#CJT2808, Computer Applications in Criminal Justice
45 contact hrs, 3 crs.
$12.00 lab fee
Instruction in the use of computers in criminal justice operation. Introduction to pre-packaged software and the process used to modify to criminal justice usage.

CLP – CLINICAL PSYCHOLOGY

CLP1001, Human Relations
3 hrs., 3 crs.
This course presents the student as the focal point of psychological investigation. The course provides students with an opportunity for self-exploration as they learn how behavior and personality are developed throughout the course of their lives. Additionally, students will learn and discuss effective methods of both personal and professional communication as well as the intricacies of social actions in their daily lives.

CNT – COMPUTER NETWORKS

+#CNT1510, Wireless Networking
3 hrs., 3 crs.
Prerequisites: CTS1650 or CTS1134.
This course presents an overview of common wireless technologies such as 802.11a, 802.11b, 802.11g, cellular, PSC, infrared, and bluetooth, including theories, concepts of their operation, installation, and basic troubleshooting. Basic computing and common wireless telephony technologies such as analog, AMPS, CDMA, TDMA, GSM, 2G, 3G, PCS, and ESMR are discussed as well as new trends as they develop. Wireless local area networks and integration with wired networks are also included.

COOPERATIVE EDUCATION

Cooperative Education courses may be taken toward completion of most of the Associate in Arts and Associate in Science degree programs. A maximum of six credit hours may be used in meeting the A.A. degree requirements.
3 crs.
Prerequisite: Minimum of 2.0 GPA, completion of cooperative education application, interview with the coordinator, availability of training slot.

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*Minimum grade of "C" required.

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Minimum of 150 hours of supervised, practical work experience in an appropriate business, industry, government agency, or institution related to the co-op's major field of study. Requirements include weekly logs, mid-term and end-of-term assignments.

AMH2949, History
ANT2949, Anthropology
APA2949, Accounting
ARC2949, Architecture
ART2949, Art
BCN2949, Building Construction
BSC2949, Biology
CCJ2949, Criminal Justice
CHM2949, Chemistry
CIS2949, Data Processing
CNT2949, Computer Networks
DIG2949, Digital Media
ECO2949, Economics
EDG2949, Education
EET2949, Electronics
EMS2949, Emergency Medical Services
ENC2949, English
ETD2949, Drafting
ETG2949, Engineering
ETM2949, Mechanical
FFP2949, Fire Sciences
FOR2949, Forestry
FSS2949, Restaurant/Hospitality Management
GEB2949, Business
HFT2949, Hospitality (1 cr.)
HOE2949, Home Economics
HUS2949, Human Services
JOU2949, Journalism
LIS2949, Library Science
MAC2949, Math
MET2949, Meteorology
MNA2949, Management
MVO2949, Music
OST2949, Secretarial
PAD2949, Public Administration
PCB2949, Biology (Medical)
PEL2949, Physical Education
PHA2949, Pharmacy
PHI2949, Philosophy
PHT2949, Physical Therapy
PHY2949, Physics
PLA2949, Legal Assisting
POS2949, Political Science
PSC2949, Physical Science
PSY2949, Psychology
PUR2949, Public Relations
REE2949, Real Estate

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REL2949, Religion
SOW2949, Social Services
SPC2949, Speech

COP – COMPUTER PROGRAMMING

+COP1000, Introduction to Programming Logic
3 hrs., 3 crs.
Corequisite: *CGS1570.
This course provides programming logic that emphasizes the use of flow charts, pseudo-code, and functional structure charts to develop well-formed algorithms. Both are structured and object-oriented design methodlogies will be examined.

+COP2224, Introduction to C++ Programming
3 hrs., 3 crs.
Prerequisite: *COP1000.
This course helps students to develop problem-solving skills using programming languages. Students are introduced to fundamentals of C++ programming with an emphasis on primitive data types, control structures, looping structures, methods, and arrays. The student will also gain a basic understanding of the style of programming called object oriented programming.

+COP2228, C++ Programming II
3 hrs., 3 crs.
Prerequisite: *COP2224.
This course presents advanced topics and applications of programming logic C++ syntax, and the object-oriented approach to problem solving. Students will learn how to design, code, compile, debug, and execute windows-based applications programs using the Windows API and Microsoft foundation classes (MFC). Students will learn how to apply overloading operators, inheritance, advanced sorting techniques, advanced data manipulation, and data structures. Students explore the design and use of the open database connectivity (ODBC) specification.

+COP2250, Introduction to Java Programming
3 hrs., 3 crs.
Prerequisite: *COP1000.
This course helps students to develop problem-solving skills using programming languages. Students are introduced to fundamentals of Java programming with an emphasis on primitive data types, control structures, looping structures, methods and arrays. The student will also gain a basic understanding of the style of programming called object oriented programming. This course will investigate objects by using classes and methods. External database sources will be used for both WinForm and WebForm based programs.

+COP2251, Java Programming II
3 hrs., 3 crs.
Prerequisite: *COP2250.
This course will teach students to write advanced Java programs. Topics include Swing Graphical User Interface (GUI) applications, advanced layout managers, Swing applets, threads, regular expressions, collections, Java networking, Remote Method Invocation (RMI), JavaBeans, Java Database Connectivity (JDBC), and Java security. Students will write complete applications and small Java applets.

+*COP2360, Introduction to C# Programming
3 hrs., 3 crs.
Prerequisite: *COP1000.
An introduction to programming in the C# programming language in the Microsoft .NET environment. Students will learn to write programs in the C# language using Microsoft Visual Student Development Environment. Emphasis will be on creating programs that use a graphical user interface. Hands-on programming projects will be an integral part of the course.

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+*COP2362, Advanced C# Programming
3 hrs., 3 crs.
Prerequisite: *COP2360.
This course is designed to provide the student with an understanding of .NET and C# programming. The course covers the following topics: The C# language; .NET IDE and Tools, including debugger; NET architecture; web services; web applications; Windows applications; mobile device applications; and interoperability of different types of applications using .NET.

+*COP2654, iPhone Programming
3 hrs., 3 crs.
Prerequisite: *COP2657.
This is a beginning class in developing applications for the apple iPhone. An overview of the MAC PC is provided for those with no MAC experience. Other topics include the objective-c programming language, the XCODE and interface builder development tools, building multi-view applications, saving data using a database, drawing with graphics library, using images and sound, determining device location and distances, and tracking motion using the accelerometer. In addition the business of the iPhone developer program, distributing, marketing, and selling iPhone applications will be covered. An iPhone is not required.

+COP2657, Introduction to SmartPhone Programming
3 hrs., 3 crs.
Prerequisites: *COP2224 or *COP2250 or *COP2360.
This course provides a comprehensive project experience in the development of mobile applications on several popular software platforms including IOS (formerly iPhone OS), Google android, rim blackberry and Microsoft Windows Mobile 7. Students receive intensive tutorial introductions to each platform, covering hardware capabilities and limitations, the development environment, and the communications infrastructure available on campus to support networking and testing.

+*COP2660, Programming for Mobile Devices: ANDROID
3 hrs., 3 crs.
Prerequisite: *COP2657.
This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java Language and progresses into the details of developing for Android-based mobile devices. The curriculum also covers several other frameworks essential for development on the Android platform.

COP2700, Data Structure (SQL)
3 hrs., 3 crs.
This course provides students with a solid foundation in SQL, which provides a means for accessing and manipulating databases. Students will be familiarized with the structure of databases and introduced to the relational database model. Students will learn the fundamentals of the SQL language, including how to: create and design tables; carry out queries; add and delete data from a database; create views, and handle security.

+COP2840, Internet Programming
3 hrs., 3 crs.
Prerequisites: *CGS1570, *DIG2100.
This course builds expertise in Internet programming using JavaScript and Ajax languages. Client-side and server-side scripting are included. Scripts will be used with HTML to add interactive capabilities to web sites.

+COP2842, Developing Web Sites Using PHP/MySQL
3 hrs., 3 crs.
Prerequisites: *COP1000, *DIG2100.
This course provides the students with the opportunity to learn how to create database-driven web sites using service-side scripting languages. Topics include introduction to PHP, working with data types and operators, building functions and control structures, manipulating strings, accessing files and directories, manipulating data in arrays and strings, working with databases and MySQL, manipulating MySQL databases with PHP, managing state information, and debugging and error handling.

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+COP3855, Advanced Web Animation
3 hrs., 3 crs.
Prerequisites: *COP2840.
This course provides more practical and professional tools for working with Cascading Style Sheets (CSS) and JavaScript using the jQuery and the jQuery UI (User Interface) libraries.

+COP4640, Operating Systems Environments
3 hrs., 3 crs.
Prerequisites: CGS1570, CTS1650, *COP1000.
Corequisite: MAN3303.
Introduction to operating systems from an applied point of view. Topics include operating systems configuration, characteristics, and evaluations. Laboratory exercises require students to develop and maintain a multi-user operating system, develop custom system utilities, and evaluate different operating systems configurations.

CPO – COMPARATIVE POLITICS

CPO2002, Comparative Government
3 hrs., 3 crs.
This course is a comparison of the major forms of government (Presidential, Parliamentary, and Totalitarian) using a study of appropriate countries' political systems. Throughout the study, these governments will be compared to the American method of government.

CRW – CREATIVE WRITING

+CRW2001, Creative Writing I
3 hrs., 3 crs.
Prerequisite: ENC1101 with a minimum grade of "C."
Techniques of and practice in writing the short story, essay, poem, drama, or novel.

+CRW2002, Creative Writing II
3 hrs., 3 crs.
Prerequisite: CRW2001.
Techniques of and practice in writing the short story, essay, poem, drama, or novel.

+CRW2710, Introduction to Screenwriting-Scriptwriting
3 hrs., 3 crs.
Prerequisite: ENC1101 with a grade of "C" or higher.
The study of the written forms of the screenplay and the script (stage play) and their relationship to the adapted forms in the visual media and on stage, and the practice of writing screenplays and stage plays. The dual nature of this course requires that students learn the principles of writing for visual media and writing for the stage but allows the student to focus the major written works composed during the semester in his preferred area. (This course may be repeated up to 2 times for credit.)

CTS – COMPUTER TECHNOLOGY AND SKILLS

#CTS1111, Linux+
3 hrs., 3 crs.
This course instructs students on the effective installation, configuration, maintenance, and securing workstations and servers that use the Linux operating system. Course objectives align with the CompTIA Linux+ certification.

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+*CTS1120, Computer and Network Security (Security +)
3 hrs., 3 crs.
Prerequisites: CTS1131, CTS1133 or permission of instructor.
Corequisite: CTS1650.
This course introduces students to the terminology and concepts associated with network and systems security. Topics addressed include operating system security viruses, worms and malicious software; authentication, encryption and account-based security; wireless security; web, remote access /VPN; perimeter defenses; and security management. This course prepares students to pass the CompTIA Security+ exam.

#CTS1131, A+ Hardware
3 hrs, 3 crs.
$5.00 lab fee
This course provides students with the hands-on experience and knowledge to properly install, configure, upgrade, troubleshoot, and repair microcomputer systems. Students learn common safety, preventative maintenance, and effective problem-solving strategies. This course prepares students for the CompTIA A+ exam.

*CTS1133, Desktop Operating Systems (A+ Software)
3 hrs., 3 crs.
Must be passed with minimum grade of "C."
This course provides students with skills related to system-level operating system software. The course provides training in the installation, configuration, maintenance, and troubleshooting of Microsoft Windows, Linux, and Unix-based O/S.   This course prepares students to pass the CompTIA A+ exam.

+CTS1134, Networking Essentials (Network +)
3 hrs., 3 crs.
$12.00 lab fee
Prerequisite: CTS1650.
This course instructs students in basic network concepts, terminology, and techniques including data communications and network services, OSI and TCP/IP Models, topologies, protocols, network implementation and support. This course prepares students to pass the CompTIA Network+ exam.

+CTS1156, Customer Support Fundamentals (ITIL)
3 hrs., 3 crs.
This course focuses on key information for user support professionals, including decision making, communicating successfully with a client, determining the client's needs, and writing for the end user. Students review, discuss, and model real-life scenarios to reflect customer/technical support help desk environments. This course maps to the ITIL Foundations exam.

#*CTS1390, Installing and Configuring Windows Server 2012
This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill sets and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as active directory domain services, networking services, and initial hyper-v configuration and is also preparation material for Exam 70-410: Installing and Configuring Windows Server 2012.

+#*CTS1391, Administering Windows Server 2012
Prerequisite: *CTS1390.
The course is the second course in a series of three courses, which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill sets and tasks across the courses, this course will primarily cover the administration tasks

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necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for Exam 70-411: Administering Windows Server 2012.

+#*CTS1392, Configuring Advanced Windows Server 2012
Prerequisite: *CTS1390, *CTS1931.
This is the third course in a series of three courses, which provides the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance, and rights management. This course is also preparation material, and maps directly to Exam 70-412, Configuring Advanced Windows Server 2012 Services.

+#CTS1650, Network Fundamentals
3 hrs., 3 crs.
This course introduces students to learn and apply the basics of computer networking using common network devices. The course covers the OSI model, industry standards, network topologies, IP addressing/subnetting, and network design. This is the first of a series of courses to prepare students for industry certification including the Cisco CCNA.

+CTS1651, Cisco Router Technology/Router Protocols and Concepts
3 hrs., 3 crs.
Prerequisite: CTS1650.
Must be passed with minimum grade of "C."
This course is designed to prepare students to apply and understand the basics of networking hardware. The course covers beginning router configurations, routed and routing protocols, and an introduction to LAN switching. This is the second in a four part series to prepare students for the Cisco certified networking associate examintion.

#CTS1939, Special Topics/Seminars
3 hrs., 3 crs.
Prerequisite: Permission of instructor.
This course centers around topics of current interest or of special interest to students and instructors. Topics or focus may vary from semester to semester. (May be repeated up to five times for credit.)

+CTS2314, Network Defense and Countermeasures
3 hrs., 3 crs.
Prerequisite: CTS1120.
In this course, students take an indepth look at network defense concepts and techniques. Students examine theoretical concepts that make the world of networking unique. This course also adopts a practical hands-on approach when examining network defense techniques. Along with examining different network defense strategies, this course will explore the advancement of network implementation, as well as timeless problem solving strategies. The course also covers such essential practices as developing a security policy and then implementing that policy by performing network address translation, packet filtering, and installing proxy servers, firewalls, and virtual private networks.

+CTS2315, Intrusion Detection and Firewalls
3 hrs., 3 crs.
Prerequisites: CTS1120.
In this course, students take an indepth look at intrusion detection standards and techniques. This course is designed for the student and network administrator who need to learn the basics of network firewall security. It covers installation techniques, discusses how to make an intelligent choice of firewall technology, and presents firewall troubleshooting. It features hands-on experience and case projects that allow the student to practice skills as they are learned.

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+CTS2370, Virtual Infrastructure: Installation and Configuration
3 hrs., 3 crs.
Prerequisites: CTS1650 or CTS1134.
This course provides students with a background in virtualization technology which serves as a precursor to cloud-based and distributive computing. The course includes an overview of virtualization technology with lectures dedicated to current virtualization products: VMware Workstation, VMware Server, Microsoft Virtual PC, Microsoft Virtual Server, and Hyper-V. Additional lectures focus on using virtualization software in networked server environments and include building virtual networks, implementing high-availability clusters, enhancing performance and security, and using VMware VSphere and Microsoft Virtual Machine Manager to centralize management of multiple virtual servers. Many hands-on activities are included, which allow the student to work with virtual computing concepts, using real-world situations to build the skills necessary for a successful understanding of virtualization.

+#CTS2437, Database Management Systems
3 hrs., 3 crs.
Prerequisite: CGS1570.
This course is an introduction to database management, database design, and SQL. The student will learn database concepts, design concepts, Entity Relationship (ER) Modeling, SQL, database optimization, data warehousing and data administration. This hands-on course will utilize current database technology such as Oracle and Microsoft SQL server.

+CTS2440, Oracle SQL and PL/SQL
3 hrs., 3 crs.
Prerequisite: *COP2700 and *COP1000.
This course provides students with an introduction to database technology using Oracle database. The course covers relational database concepts and Oracle developer application builder tools, including forms builder and reports builder. A strong SQL focus is emphasized. The student will use the SQL plus environment for executing individual SQL statements and SQL scripts. The student will be introduced to many Oracle specific SQL statements. The student will be introduced to pl/SQL programming language fundamentals. The course prepares students for the Oracle application developer and Oracle database administrator exams.

+CTS2441, Oracle Database Administration
3 hrs., 3 crs.
Prerequisite: COP2700.
This course is designed to give the Oracle database administrator (DBA) a firm foundation in basic administrative tasks. Through instructor-led learning, structured hands-on practices and challenge-level exercise labs, the DBA will gain the necessary knowledge and skills to set up, maintain, and troubleshoot an Oracle database. This course is designed to prepare students to successfully complete the Oracle database administrator certification exams.

+CTS2445, Advanced Oracle SQL and PL/SQL
3 hrs., 3 crs.
Prerequisite: CTS2440.
This course enables students to learn how to write PL/SQL procedures, functions and packages. Working in both the procedure builder and the SQL*plus environments, students will learn how to create and manage PL/SQL program units and database triggers. Students will also learn how to use some of the Oracle-supplied packages. This course is designed to prepare students to successfully complete one of the Oracle application developer certification exams.

+CTS2652, Advanced Router Technology (CISCO-CCNA)
3 hrs., 3 crs.
Prerequisite: CTS1651.
This course is designed to prepare a student to apply and understand the advanced principles and applications of networking hardware. The course covers advanced router configurations, LAN switching, network management, and advanced network design. This course will help prepare students for the Cisco Certified Networking Associate (CCNA) examination.

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+#*CTS2653, Cisco Project-Based Learning/Accessing the WAN
3 hrs., 3 crs.
Prerequisite: CTS2652.
Must be passed with minimum grade of "C."
This course teaches the principles, applications, and implementation of networking hardware. This course covers advanced network design and advanced network management projects. This is the fourth of a four-part series to prepare students for the Cisco Certified Networking Associate Examination.

+CTS3425, ASP.NET Web Application Development
3 hrs., 3 crs.
Prerequisites: COP1000, DIG2100.
Students in this course will learn to use ASP.NET to process data from web pages. The student will create N-tier ASP.NET web applications. SQL server databases will be accessed and manipulated using ADO.NET. Students will implement code that provides persistence of data between user requests.

DAA – DANCE, EMPHASIS ON ACTIVITY

DAA1500, Beginning Jazz Dance
2 hrs., 1 cr.
A study of the basic movements of jazz dance, including basic dance routines in the modern jazz and musical theatre styles.

DAA1520, Beginning Tap
2 hrs., 1 cr.
Practical study of the fundamentals of tap dance as an art form, including technique, terminology, rhythm, styles, and history.

DAA2540, Dance Techniques for the Theatre
2 hrs., 1 cr.
A practical study of the fundamental dance forms used in the theatre. The course is structured for the pre-theatre major but is open to all students. Basic ballet, jazz, and tap techniques and vocabularies are taught with an emphasis on dance technique, performance, and auditioning techniques.

DEA – DENTAL ASSISTING

+#=*DEA0020C, Pre-Clinical Procedures
182 contact hrs., 6 vocational crs.
$86.00 lab fee
Prerequisite: Acceptance into the Dental Assisting Program. Corequisite: DEA0800L.
This comprehensive course is designed to introduce the student to chair side dental assisting in preparation for the treatment of dental patients. Areas of concentration include infection control and sterilization procedures, obtaining and recording medical/dental histories and vital signs, patient management, performing and assisting with clinical examinations and charting, assisting with local anesthesia, and operative procedures utilizing manikins and/or student partners.

+#=*DEA0132, Dental Nutrition
32 contact hrs., 1 vocational cr.
Prerequisite: Acceptance into the Dental Assisting Program.
This course is designed to integrate nutrition into the diagnosis, care, and treatment of dental patients demonstrating the relationship between dental disease(s), diet, and oral health. Dietary assessment methods in relation to dental health will be emphasized.

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+#=*DEA0133, Introduction to Microbiology
16 hrs., 1 vocational cr.
Prerequisite: Acceptance into the Dental Assisting Program.
This course is an introduction to the role of microorganisms associated with health and disease. Microbes of concern to the dental practitioner/ auxiliary will be addressed in relation to infection control procedures and management of biohazardous waste.

+#=*DEA0134, Introductory Pharmacology/Dental Office Emergencies
32 hrs., 2 vocational crs.
Prerequisite: Acceptance into the Dental Assisting Program.
The pharmacology section of this course is designed to familiarize the student with basic concepts and considerations regarding pharmacology and pharmaceutical preparations used in dentistry. The dental office emergenices content addresses the relationship of the patient's medical history and total health status to comprehensive dental care. Emphasis is placed on the prevention of medical emergencies through a comprehensive assessment of all patients before and during dental treatment.

+#=*DEA0800L, Clinical Practice I
48 contact hrs., 1.5 vocational crs.
$53.00 lab fee
Prerequisite: Acceptance into the Dental Assisting Program.
Corequisite: DEA0020C.
This course introduces the student to basic clinical assisting skills as theorized in DEA0020C. Students will be required to participate and observe clinical and administrative activities in the campus dental clinic involving live patients. Concentration of study will include reception and dismissal of patients, patient management, establishing and maintaining records, obtaining and recording medical/dental histories and vital signs, charting, planning appointments, assisting with or performing various dental procedures, and utilizing practice management systems.

+#=*DEA0801, Clinical Practice II
58 contact hrs., 2 vocational crs.
Prerequisite: Completion of DEA0020C and DEA0800L with a grade of "C" or better. Corequisite: DEA0801L.
Included in this course is a series of lectures designed to provide an overview of each dental specialty practice. Content will be related to the external student rotation sites as assigned in DEA0801L.

+#=*DEA0801L, Clinical Practice II Lab
198 contact hrs., 6 vocational crs.
$42.00 lab fee
Prerequisite: Completion of DEA0020C and DEA0800L with a grade of "C" or better. Corequisite: DEA0801.
Clinical experiences designed to provide the student with additional dental assisting skills is offered in this course. The student will progress to an intermediate skill level while applying knowledge of dental assisting in the campus dental clinic environment. In addition, students will be assigned rotation requirements at various external sites intended to provide familiary with each dental specialty.

+#=*DEA0850L, Clinical Practice III
192 contact hrs., 6.5 vocational crs.
Prerequisites: Completion of DEA0801 and DEA0801L with a grade of "C" or better.
Clinical Practice III is designed as an internship in a private practice of dentistry. Arrangements are made with each dentist taking part in the program to enable the student to obtain experience in all aspects of dental office procedures. Each student will be assigned to two offices for a period of three weeks in each office. The purpose of the internship is to advance the student's experience in private practice settings. Opportunities will be provided for appointment scheduling and confirmation, recall systems, telephone procedures, reception and dismissal of patients, bookkeeping, charting, records, operative procedures, care of dental equipment, and laboratory procedures.

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DEH – DENTAL HYGIENE

+#*DEH1002, Fundamentals of Dental Hygiene
3 hrs., 3 crs.
Prerequisite: ENC1101, HUN1201, BSC2085, BSC2085L with a grade of "C" or better and acceptance into the Dental Hygiene Program Corequisite: DEH1002L.
This introductory course provides foundational knowledge relevant to the dental hygiene process of care. The philosophy of dental hygiene practice, fundamental theories, principles, and procedures utilized to perform basic dental hygiene techniques is emphasized. Content will enable the student to apply procedural knowledge in the clinical environment in DEH1002L.

+#*DEH1002L, Dental Hygiene Pre-Clinical Procedures
9 hrs., 3 crs.
$858.00 lab fee
Prerequisite: ENC1101, HUN1201, BSC2085, BSC2085L with a grade of "C" or better and acceptance into the Dental Hygiene Program. Corequisite: DEH1002.
This course emphasizes the basic techniques of preventive clinical practice involved in the dental hygiene process of care. The student will apply relative procedural knowledge obtained in DEH1002 to gain mastery of beginning techniques with patient care. Supervised pre-clinical sessions utilizing manikins or student partners will be provided in the campus dental clinic.

+#*DEH1130, Oral Histology and Embryology
2 hrs., 2 crs.
Prerequisites: Completion of DEH1002, DEH1002L, DES1010, DES1000, DES1100C, DES1200, DES1200L with a grade of "C" or better.
This course is a comprehensive presentation of the embryonic, fetal, and postnatal development of the tissues and structures of the head and oral cavity and their relationship to the field of dentistry. The study of embryonic development and microscopic anatomy of the face and oral cavity, including the teeth, supporting structures, salivary glands, the temporomandibular joint, and other surrounding structures is included.

+#*DEH1400, Oral Pathology
2 hrs., 2 crs.
Prerequisites: Completion of DEH1002, DEH1002L or DEA0020C, DEA0800L, DES1320, DEA0134, DEA0133 and DES1100C, DES1200, DES1200L, DES1010, DES1000 with a grade of "C" or better or permission of the Dental Programs Coordinator.
This course involves the study of general and oral pathological diseases with emphasis on those related to the oral cavity. Students will apply pathological principles to the clinical practice of dental hygiene and dental assisting. Recognition of normal and abnormal conditions of the oral cavity and surrounding tissues will be cultivated through case presentations and slide series.

+#*DEH1800, Dental Hygiene I
2 hrs., 2 crs.
Prerequisite: Completion of DEH1002, DEH1002L with a minimum grade of "C" or better. Corequisite: DEH1800L.
This course further examines principles and theories as related to the dental hygiene process of care. The specific components of assessment, diagnosis, treatment planning, implementation, and evaluation will be emphasized.

+#*DEH1800L, Dental Hygiene Clinical I
15 hrs., 5 crs.
$800.00 lab fee
Prerequisite: Completion of DEH1002 and DEH1002L with a grade of "C" or better. Corequisite: DEH1800.
An introduction to the clinical management of dental/medical emergencies will be provided in this course as the student begins to refine and apply learned pre-clinical skills and procedures to the dental hygiene process of care. The application of integrated multidisciplinary learning into clinical practice will be cultivated through supervised practice in the campus dental

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clinic. Clinical competencies involving assessment, diagnosis, treatment planning, implementation, and evaluation procedures at the entry-level will be required.

+#*DEH1802C, Dental Hygiene II
5 hrs., 3 crs.
$1050.00 lab fee
Prerequisites: Completion of DEH1800, DEH1800L, DES1832, DES1832L, DEH1130, DEH1400, DES1201, DES1201L, DEH2300 with a grade of "C" or better.
This course permits progression in the dental hygiene process of care including didactic and clinical/laboratory instruction with an emphasis on periodontal instrumentation. The refinement of essential skills in advanced techniques of mechanical debridement, root planing, and nonsurgical periodontal treatment planning will be emphasized.

+#*DEH2300, Pharmacology for the Dental Hygienist
2 hrs., 2 crs.
Prerequisites: DEH1002, DEH1002L, DES1100C, DES1200, DES1200L, DES1010, DES1000 with a grade of "C" or better.
A study of pharmacology with emphasis on drugs related to the dental hygiene process of care, including mechanisms of action, pharmacokinetics, indications, principles of drug administration, and major adverse effects. Pharmacotherapy of cardiovascular, CNS, respiratory, gastrointestinal and endocrine conditions, antimicrobial, antifungal, antiviral, antineoplastic/immunosuppressant drugs, and drugs for anesthesia will be of primary focus.

+#*DEH2602, Periodontology
2 hrs., 2 crs.
Prerequisites: Completion of DEH1800, DEH1800L, DES1832, DES1832L, DEH1130, DEH1400, DES1201, DES1201L, and DEH2300 with a grade of "C" or better.
The anatomy and physiology of the periodontium in relation to the clinical manifestations and histopathology of gingival and periodontal diseases will be included in this course. Comprehensive study of the etiology, assessment, classification, therapeutic objectives, clinical management and prevention, maintenance interval and/or referral determination for periodontal patients will be emphasized. Relationships between systemic health and periodontal health and disease as related to the dental hygiene process of care will be examined.

+#*DEH2702, Community Dental Health
2 hrs., 2 crs.
Prerequisite: Completion of DEH1802C and DEH2602 with a grade of "C" or better.
The evaluation and development of community based oral health programs focusing on assessment, planning, implementation and evaluation will be the primary objective for this course. Basic principles of epidemiology and biostatistics will be included, as well as educational aspects, policy development and health care delivery systems.

+#*DEH2702L, Community Dental Health Lab
2 hrs., 1 cr.
Lab fee: $8.00
Prerequisite: Completion of DEH2702, DEH2804, and DEH2804L with a grade of "C" or better.The student will assess, plan, implement, and evaluate community dental health programs using the evaluation and development criteria acquired in DEH2702. Evaluation of scientific literature and development of a dental research project will also be expected. Formative and summative evaluations of the project will be presented in research paper and presentation format.

+#*DEH2804, Dental Hygiene III
2 hrs., 2 crs.
Prerequisite: Completion of DEH1802C and DEH2602 with a grade of "C" or better. Corequisite: DEH2804L.
This course emphasizes treatment modifications and patient management as related to the dental hygiene process of care. Students will integrate scientific research into evidence based treatment planning and implementation of care for special needs patients. The role of the dental hygienist as oral health educators and disease prevention specialists is included.

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+#*DEH2804L, Dental Hygiene Clinical III
15 hrs., 5 crs.
$60.00 lab fee
Prerequisite: Completion of DEH1802C and DEH2602 with a grade of "C" or better. Corequisite: DEH2804.
This course is designed to advance the dental hygiene student from a basic skill level to an intermediate skill level in the process of dental hygiene care by integrating multidisciplinary learning into clinical practice. Instruction and clinical experience guide students in using critical thinking techniques to develop treatment plans for performing clinical skills on patients with varying degrees of periodontal disease.

+#*DEH2806, Dental Hygiene IV
2 hrs., 2 crs.
Prerequisite: Completion of DEH2804, DEH2804L, and DEH2702 with a grade of "C" or better. Corequisite: DEH2806L.
This course reinforces exit-level knowledge and skills essential in the dental hygiene process of care in accordance to Florida State Dental Practice Statutes. Professional ethics, rules and regulations for dental practice, various management practices including team building skills and quality assurance, and future trends in dental hygiene care will be explored. Students will be introduced to employment seeking skills and learn to develop a professional resume.

+#*DEH2806L, Dental Hygiene Clinical IV
15 hrs., 5 crs.
$60.00 lab fee
Prerequisites: Completion of DEH2804, DEH2804L, and DEH2702 with a grade of "C" or better. Corequisite: DEH2806.
This course allows for clinical proficiency and expertise in the exit-level tasks essential for the dental hygiene process of care in accordance with the Florida State Dental Practice Act. Clinical experiences include treatment of the periodontally involved patient, patients with physical and mental disabilities, and the medically compromised patient. Mastery of advanced clinical skills and efficient time utilization reinforces the student's confidence, competence, and ability for self assessment.

+#DEH2900, Dental Programs Independent Study
9 hrs., 3 crs.
$41.00 lab fee
Prerequisite: Successful completion of an ADA accredited Dental Hygiene Program and/or permission of Dental Programs Coordinator.
This course is designed to enable dental students the opportunity to improve clinical skills/competencies or to remediate dental students who have completed program courses but desire review in preparation for credentialing examinations. Content will be designed to meet the specific needs of the student.

DEP – DEVELOPMENTAL PSYCHOLOGY

DEP2004, Developmental Psychology
3 hrs., 3 crs.
This course is a chronological study of the total human being that observes the various aspects of development taking place at different times in the person's life.

DES – DENTAL SUPPORT

+#=*DES0501, Dental Practice Management
32 hrs., 1 vocational cr.
Prerequisite: Acceptance into the Dental Assisting Program.
This course introduces the student to the foundations of dental practice management including effective interoffice and patient communication. Financial planning, inventory control, practice management software systems, patient scheduling/record organization and HIPAA compliance are of primary focus. The legal and ethical aspects of dental practice will be examined in accordance with the State Dental Practice Act. Employment planning and professional career opportunities will be addressed.

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+#=*DES0844, Dental Health Education
32 hrs., 1 vocational cr.
Prerequisite: Acceptance into the Dental Assisting Program.
This course introduces the student to the philosophy and principles of dental health education. Current disease prevention utilizing proper techniques and consumer products for biofilm control will be emphasized. The student will gain practical experience by developing and providing dental health presentations during National Dental Health Month.

+#*DES1000, Dental Anatomy
2 hrs., 2 crs.
Prerequisite: Acceptance into the Dental Assisting or Dental Hygiene Program.
This course provides an in-depth study of the morphology and function of primary and permanent teeth, including all of the structures involved in the mechanism of mastication, primary and permanent tooth eruption, schedules and anatomical forms, function of primary and permanent dentition, vocabulary used to describe teeth and other structures in the oral cavity, and the principles of occlusion.

#+#*DES1010, Head and Neck Anatomy
2 hrs., 2 crs.
Prerequisite: Acceptance into the Dental Assisting or Dental Hygiene Program.
This course includes a detailed study of the skeletal, muscular, circulatory, and nervous systems of the head and neck. Special emphasis is placed on structures associated with the oral cavity. Teeth are studied in relationship to the structures that support them.

+#*DES1100C, Dental Materials
4 hrs., 3 crs.
$195.00 lab fee
Prerequisite: Acceptance into the Dental Assisting or Dental Hygiene Program.
This course examines the properties, manipulation, and care of materials used in the prevention and treatment of oral disease. Students will gain clinical practice manipulating the physical, mechanical, chemical, and biological characteristics of materials in relation to the oral environment.

+#*DES1200, Dental Radiology I
2 hrs., 2 crs.
Prerequisite: Acceptance into the Dental Assisting or Dental Hygiene Program. Corequisite: DES1200L.
This course provides theoretical knowledge to include the history, development, properties, uses and physical behavior of x-radiation, radiation hygiene, biological effects of radiation, and patient/operator safety regulations. Fundamental knowledge in relation to exposing, processing and mounting intraoral radiographic images, identification of normal radiographic anatomical landmarks, and computer imaging technology in dental radiography is included.

+#*DES1200L, Dental Radiology I Lab
3 hrs., 1 cr.
$186.00 lab fee
Prerequisite: Acceptance into the Dental Assisting or Dental Hygiene Program. Corequisite: DES1200.
Concurrent with DES1200, students gain practical experience with radiographic procedures, darkroom procedures, film storage, and the hazards and precautions involved in dental radiography. Students will be permitted to expose traditional and digital intraoral images in order to achieve competency in producing diagnostic quality images.

+#*DES1201, Dental Radiology II
1 hr., 1 cr.
Prerequisite: Completion of DEH1002, DEH1002L or DEA0020C, DEA0800L, DES1320, DEA0134, DEA0133 and DES1100C, DES1200, DES1200L, DES1010, DES1000 with a grade of "C" or better. Corequisite: DES1201L.
A continuation of DES1200, this course focuses on identification and interpretation of normal and abnormal dental pathology, accessory techniques and tomographic imaging systems.

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+#*DES1201L, Dental Radiology II Lab
3 hrs., 1 cr.
$24.00 lab fee
Prerequisite: Completion of DEH1002, DEH1002L or DEA0020C, DEA0800L, DES1320, DEA0134, DEA0133 and DES1100C, DES1200, DES1200L, DES1010, DES1000 with a grade of "C" or better. Corequisite: DES1201.
Concurrent with DES1201, this course permits students to continue practice exposing traditional and digital intraoral and extraoral images on manikins and patients in order to refine dental radiographic technique and interpretation skills.

+#*DES1320, Basic Communications and Human Relations
1 hr., 1 cr.
Prerequisite: Acceptance into the Dental Assisting Program.
This course emphasizes effective oral and written communication skills with patients as well as co-workers and the importance of interpersonal relations in the dental office. Designed to stimulate group discussions and individual growth, professionalism and ethics as related to dental assisting.

+#*DES1404, Introductory Anatomy and Physiology
2 hrs., 2 crs.
Prerequisite: Acceptance into the Dental Assisting Program.
A study of the development of the human body along with a survey of the structure, growth, and function of the body organ system is included in this course.

+#*DES1832, Expanded Functions
1 hr., 1 cr.
Prerequisites: Completion of DEH1002, DEH1002L or DEA0020C, DEA0800L, DES1320, DEA0134, DEA0133 and DES1100C, DES1200, DES1200L, DES1010, DES1000 with a grade of "C" or better or possess a current CDA or RDH credential or demonstrate employment in a dental practice for two consecutive years (provide a letter of verification from employer). Enrollment based on availability; priority granted to currently enrolled DA/DH program students. Corequisite: DES1832L.
This course is designed to provide didactic instruction regarding the expanded functions legally allowable in the State of Florida. Upon successful completion of DES1832L and DES1832 (grade of "C" or better), students are issued a certificate listing the expanded functions that are accomplished at an acceptable level.

+#*DES1832L, Expanded Functions Lab
3 hrs., 1 cr.
$40.00 lab fee
Prerequisites: Completion of DEH1002, DEH1002L or DEA0020C, DEA0800L, DES1320, DEA0134, DEA0133 and DES1100C, DES1200, DES1200L, DES1010, DES1000 with a grade of "C" or better or possess a current CDA or RDH credential or demonstrate employment in a dental practice for two consecutive years (provide a letter of verification from employer). Enrollment based on availability; priority granted to currently enrolled DA/DH program students. Corequisite: DES1832
This advanced clinical course requires a high level of clinical experience, hands-on dexterity, knowledge of intraoral anatomy, knowledge of equipment and handpieces, and the ability to work independently and make sound clinical decisions. Expanded functions that are legally allowable in the State of Florida will be demonstrated in an established sequence of tasks. Students will be given opportunities to practice on manikins and live patients in order to develop an acceptable skill level that will increase clinical competency and proficiency in each task. Upon successful completion of DES1832L and DES1832 (grade of "C" or better), students are issued a certificate listing the expanded functions that are accomplished at an acceptable level.

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DIG – DIGITAL MEDIA

DIG1710, Introduction to Game Development
3 hrs., 3 crs.
$10.00 lab fee
Participants in this course will have an opportunity to explore the skills and techniques associated with the electronic/digital game development process, including content creation strategies and production techniques. This course is intended for individuals interested in the game.

#DIG2000, Introduction to Digital Media
3 hrs., 3 crs.
Participants in this course will have an opportunity to explore the avenues of contemporary digital design, highlighting the importance of process, innovation, and communication. Students will become familiar with design projects, ranging from traditional print, sophisticated websites, interactive digital media, and motion graphics. Students will be required to focus on developing and refining the design concept and the execution strategies specific to digital media.

+DIG2040, Survey of Game Development
3 hrs., 3crs.
$50.00 lab fee
Prerequisite: DIG2302.
Participants in this course will have an opportunity to explore the skills and techniques associated with game development fundamentals. Experiences include a survey of game development, game design, creating game art objects, game scripting, and game documentation.

DIG2100, Web Design I
3 hrs., 3crs.
$28.00 lab fee
Students in this course will have an opportunity to explore advanced conceptual, aesthetic, and production design issues for interactive website design and creation. .

+DIG2101, Web Design II
3 hrs., 3crs.
$10.00 lab fee
Prerequisite: DIG2100.
Participants in this course will have an opportunity to explore advanced conceptual, aesthetic, and production design issues for interactive Websites design and creation. Current industry production software will be used to develop electronic pages and paths that contain interaction, animation, sound, and video.

+#DIG2143, Streaming Media
3 hrs., 3 crs.
$21.00 lab fee
Prerequisite: *DIG2257 or *DIG2290.
This course explores one of the newest Internet-based technologies, streaming media. It explores the technologies used to deliver media data over a network as a steady continuous stream, allowing playback to proceed while it is being received. Emphasis is placed on understanding the delivery system properties and protocols. Using current industry techniques, students will learn how to deliver live or prerecorded rich media content in real time over the Internet. This course covers streaming media file formats, streaming media server protocols, and streaming media clients. Students will develop an understanding of the architecture of streaming media and the pros and cons of various streaming options as well as develop basic skills in media creation.   Discussions will include appropriate media selection,
delivery system attributes and limitations, associated file types, audio and video Codecs, and software players. Students will be producing and directing a radio show on WKGC or a television show for Commodore Productions.

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DIG2200, Basic Video
3 hrs., 3 crs.
$10.00 lab fee
Participants in this course will have an opportunity to explore basic to intermediate concepts and skills for planning and producing of digital video segments. Participants will experience hands-on instruction and activities of how to use HD cameras, lights, film stock, a non-linear video editing system and editing software. Topics to be covered include: capturing and digitizing video and audio, organizing a new project, storing digital audio and video clips, managing multiple audio and video inputs, and navigating canvas and timeline, video compression and output. Through the mastery of above elements of instruction, the results will give students the ability to create a storyboard, schedule, manage equipment and assets to produce the final product.

+DIG2203, Advanced Digital Video
3 hrs., 3 crs.
$10.00 lab fee
Prerequisite: DIG2200.
Participants in this course will have an opportunity expand on what they learned in the previous course. Participants will explore advanced concepts and skills for planning and producing of digital video segments projects of extended length. Throughout the semester students will film a series of live multi-camera projects of live events within the community as well as on campus. Students will develop an awareness of advanced filming and digital editing techniques such as multi-camera syncing, multiple video and audio compressions for film, television, the web. The encouragement of increasing levels of storytelling, pacing, timing, camera angles, and an overall higher visual aesthetics will be emphasized. Students will also work on several individual and team projects to design, plan, and create video segments within an array of genres: documentary, staged interview, live theatre, fiction, animation, and more.

+DIG2205, Basic Video Editing
3 hrs., 3crs.
$10.00 lab fee
Prerequisite: DIG2200.
Participants in this course will have an opportunity to explore basic working concepts of the art of editing through the use of linear and non-linear video editing systems. 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.

DIG2251, Introduction to Digital Audio
3 hrs., 3crs.
$10.00 lab fee
Participants in this course will have an opportunity to explore the skills and techniques associated with digital audio production. Students will explore current technologies and practices used for field recording, use of digital audio workstations, and digital audio editing.

DIG2252, Digital Audio II
3 hrs., 3 crs.
$10.00 lab fee
Prerequisite: *DIG2251.
The purpose of this course is to develop an advanced knowledge of digital audio concepts, audio processing principles, hardware, digital audio processing and production as related specifically to the field of multimedia. All areas of knowledge will be applied to practical applications through project-oriented assignments.

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DIG2257, Radio Production Sound Recording
3 hrs., 3 crs.
$10.00 lab fee
This is a course in the science and art of production sound for the purposes of broadcasting via terrestrial and digital media. Students are taught how to use microphones, field mixers, control boards, digital automation systems and audio editing platforms for the purpose of broadcasting and/or recording dialogue, sound effects, and music via radio broadcast signal, digitial stream and/or podcast. Fundamentals of sound editing and mixing for commercials and promotional audio as well as the principles of on-air broadcast are introduced. Students will be assigned a weekly one hour slot on WKGC. (May be repeated once for credit.)

+#DIG2290, Studio Production and Direction
3 hrs., 3 crs.
$10.00 lab fee
Prerequisite: DIG2200.
This 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. Includes real time camera movements and the process of producing and directing studio productions facilitated through team engagement.

DIG2300, 2D Animation
3 hrs., 3crs.
$10.00 lab fee
Participants in this course will have an opportunity to explore the skills and techniques associated 2D animation. This is an introductory course in creating two-dimensional digital animation. The software Adobe After Effects, or an equivalent substitution such as Flash, FlashMX, or Fireworks will be used. Students will explore the historical and cultural precursors to digital animation, making links between early cinema, experimental film, and our contemporary electronic milieu.

+DIG2302, 3D Modeling and Animation I
3 hrs., 3crs.
$50.00 lab fee
Prerequisite: GRA2156.
Participants in this course will have an opportunity to explore the skills and techniques associated 3D modeling and Animation. This is an introductory course in creating three-dimensional digital animation. The software 3D Studio-Max, or an appropriate substitution will be used. Students will explore the concepts of light, shadow, foreshortening, nurbs, polygons, textures, keyframes, and rendering processes as they relate to digital animation and 3D modeling.

+DIG2303, 3D Modeling and Animation II
3 hrs., 3 crs.
$50.00 lab fee
Prerequisite: DIG2302.
Participants in this course will have an opportunity to explore the skills and techniques associated 3D modeling and Animation. The software 3D Studio-Max, or an appropriate substitution will be used. Students will explore the concepts of light, shadow, foreshadowing, polygons, textures, keyframes, and rendering processes as they relate to digital animation and 3D modeling.

DIG2410, Basic Scripting for Video & Digital Media
3 hrs., 3crs.
Participants in this course will have an opportunity to explore basic concepts of writing for visual media. This exploration will include, but not be limited to, a taxonomy of visual presentations, the stages of script development for visual media, development of creative concepts, differentiating fictional from non-fictional narratives, writing for multiple digital formats, and writing for online digital media.

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DIG2430, Storyboarding and Conceptualizing for Game Development
3 hrs., 3crs.
$10.00 lab fee
Participants in this course will have an opportunity to explore the skills and techniques associated with storyboarding and game creation. This is an introductory course in the conceptualization as it relates to game development. Students will explore the concepts of game layout charts, storyboarding, level layouts, environment illustrations, character designs, model sheets and graphic user interface as they relate to game development. Basic skills in software such as GameMaker or 3D Studio-Max, or an appropriate substitution will be introduced.

+DIG2580, Digital Media Portfolio
4 hrs., 4 crs.
Prerequisite: Permission of advisor.
Participants in this course will have an opportunity to explore the skills and techniques associated with digital media portfolio creation. Students will explore current tactics and practices used to display best works and showcase projects completed throughout their digital media program. Students will research Web sites, analyze intended audiences, construct a resume, write a digital artist's statement, and create a prototype digital portfolio for self-promotion. This is a capstone course intended to be taken the last semester of study.

+DIG3525, Digital Production Studio I
3 hrs., 3 crs.
Prerequisite: CGS2069 with a minimum grade of "C."
Students will learn some techniques to help them more fully access their creativity. They will also learn how to express themselves clearly in writing and how to work together as a team to see projects to completion.

+DIG3526, Digital Production Studio II
3 hrs., 3 crs.
Prerequisite: DIG3525.
This course covers the expansion upon production skills, theoretical knowledge, and overview of digital media with advanced projects, creative exploration, and application of theoretical ideas.

+DIG3543, Media Planning
3 hrs., 3 crs.
Prerequisite: CGS 1570.
This course covers the various components of preproduction planning as it relates to production digital media projects. Explore and develop assorted components and apply skills to determine knowledge by writing and creating rudimentary pre-production plans.

+DIG3553, Interactive Media Design
3 hrs., 3 crs.
Prerequisites: DIG2200, DIG2251 with a minimum grade of "C."
This course is an interdisciplinary approach to design and construction of advanced interactive media, applying theory, aesthetic, and scientific principles of user interaction. Project and theory based.

+DIG4433, Visual Development
3 hrs., 3 crs.
Prerequisites: GRA2156 with a minimum grade of "C."
This course covers principles of visual storytelling and visual development, including the nature and tradition of visual storytelling.

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+DIG4570, Digital Multimedia Production Techniques
3 hrs., 3 crs.
Prerequisite: DIG3543.
This course explores the avenues of contemporary digital production. Students will learn each of the new media, along with its history and connection to the worlds of art and design. It also covers essential key concepts and techniques for image processing, digital archival, file conversion, media duplication, and analyzes the computer and its peripherals to explain the different elements of a digital media studio.

+DIG4591, Multimedia Production and Design Group
3 hrs., 3 crs.
Prerequisite: DIG3553 with a minimum grade of "C."
This course is the application and implementation of business, design and programming skills students have acquired. Students will work in production groups to examine business problems and must determine the source problem, ascertain a working solution, and implement a functional model complete with proposals, design, technical, and quality assurance documentation. Design solutions appropriate to a targeted market will be emphasized. Critical analysis, problem identification, and idea refinement will be the focus in producing a portfolio quality project.

DSC – DOMESTIC SECURITY

<DSC2212, Emergency Preparedness for Correctional Officers
45 contact hrs., 3 crs.
Focus on tactical operations planning, internal factors affecting emergency situations, and resolution of hostage and disturbance situations. Additional emphasis on the role of management, managerial styles, organizational leadership, and elements of change.

<DSC2217, Firefighting for Correctional Officers
45 contact hrs., 3 crs.
Designed to provide officers with first-stage firefighting capabilities to reduce the dangers of death and injury in correctional settings. Emphasis on rescue techniques, the use of breathing equipment, the application of the fire extinguisher, and the secure evaluation of prisoners.

+DSC3064, Security and Emergency Communications
45 contact hrs., 3 crs.
Prerequisite: GEB1011 or MNA1100.
This course provides students with a broad, up-to-date, multidisciplinary study of homeland security as a subject of intense interest/inquiry as an emerging academic discipline. This course emphasizes to students the multi-faceted communications necessary between local, state, federal agencies and the media to minimize and prepare for hazards, disasters and terrorist activity. The course meshes a variety of sources, themes, methodologies and on-line learning activities. These activities include reading assignments, internet research, assessments, informal class opinion polls and threaded discussion forums. Issues of public policy/administration, law, criminal justice and the social/behavioral impacts of terrorism/homeland security will be considered throughout the course.

+DSC3783, Political and Legal Issues Facing Emergency Responders
45 contact hrs., 3 crs.
Prerequisite: GEB1011 or MNA1100 and DSC3064.
This course introduces students to the study of how disasters and emergencies affect public policy, organizational management and leadership. This course will guide students through an array of material allowing them to analyze the details and frameworks that connect to larger concepts of disaster policy and politics. Students will gain an emergency management perspective on interdisciplinary and multidisciplinary education. Students will gain a perspective of the involvement of the highest level of government down to the city manager.

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+DSC4755, National Security
45 contact hrs., 3 crs.
Prerequisite: GEB1011 or MNA1100 and DSC3064.
This course introduces students to international relations and security. As a field of study, international relations focuses on political, military, economic and cultural interaction of state/non-state players at a global level and the gravity of national security. National security
therefore encompasses a diverse array of topics. Therefore, we begin by exploring key concepts, issues and processes of international relations to provide the general knowledge and analytical tools necessary to understand, evaluate and respond to a complex array of problems in the contemporary world.

ECO – ECONOMICS

ECO2013, Principles of Economics, Macro
3 hrs., 3 crs.
The course addresses the basic tools of supply and demand, national-income accounting, and the measurement of macroeconomic performance, the macroeconomic problems of unemployment and inflation, the business cycle and the macroeconomic phenomena of sulf-adjustment and instability and its implications, the economic multiplier effect and its influence on macroeconomic performance, the federal budget and the role of fiscal policy in influencing macroeconomic outcomes, money and banking and the role of monetary policy in influencing macroeconomic outcomes, the foundations of economic growth, and the constraints to successful macroeconomic policy and outcomes.

+ECO2023, Principles of Economics, Micro
3 hrs., 3 crs.
This course addresses the basic economic tools of supply and demand, consumer demand and behavior as measured using the concepts of utility and elasticity, the costs of firm production and their relatioship to output, market structures and the production and profit-maximuzing decisions of firms within the four primary market models, how government regulation influences market outcomes, the operation and role of key factor markets including th elabor and financial markets, the tax system and the distributinal issues associated with equity versus efficiency, and the fundamentals of international trade and finance and their influence on economic outcomes.

EDF – EDUCATION: FOUNDATIONS AND POLICY STUDIES

EDF1005, Introduction to the Teaching Profession
3 hrs., 3 crs.
This is a survey course including historical, sociological and philosophical foundations of education, governanace and finance of education, educational policies, legal, moral, and ethical issues and the professionalism of teaching. Students will be provided information on the Florida Educator Accomplished Practices, Sunshine State Standards, and the Professional Educator Competencies. Students are required to complete a minimum of 15 hours of field-based experience with children and youth in schools or similar settings and not via virtual modes of film or Internet. **Fingerprinting and background checks will be required of every student through their respective school district BEFORE any observations are undertaken at the public schools. GCCC has articulation agreements only with Bay, Gulf, and Franklin school systems for EDF1005 observations.**

EDF2085, Introduction to Diversity for Educators
3 hrs., 3 crs.
Designed for the prospective educator, this course provides the opportunity to explore issues of diversity, including an understanding of the influence of exceptionalities, culture, family, gender, sexual orientation, socioeconomic status, religion, language of origin, ethnicity, and age upon the educational experience. Students will explore personal attitudes toward diversity and exceptionalities. Students will be provided information on the Florida Educator Accomplished Practices, Sunshine State Standards, and the Professional Educator Competencies. A minimum of 15 hours of field-based experience working with diverse populations of children and youth in schools or similar settings is required. The field experience should not be via virtual modes of film or Internet. **Fingerprinting and background checks will be required of every student through their**

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EEC – EDUCATION: EARLY CHILDHOOD

+EEC1272, Practices for Working with Young Children with Special Needs in Inclusive Settings
3 hrs., 3 crs.
Prerequisite/Corequisite: EEC1701.
This course introduces the concept of inclusion of young children with special needs in early care and education settings. The course will present a model for effective inclusion; raise awareness of adult personal attitudes toward inclusive care and present theories of play development. Course content also includes the organization of the environment, provision of emergent literacy opportunities, management of challenging behaviors and the development of partnerships among parents, professionals and community agencies. Required Lab hours provide opportunities to observe and work with children in diverse programs that serve children with exceptionalities.

+#EEC1319, Portfolio Development and Supervised Work Experience
3 hrs., 3 crs.
$50.00 lab fee
Prerequisite/Corequisite: EEC1701.
This course is designed to provide students with learning opportunities related to demonstration of written competencies for children ages birth to five years, in the functional areas of early childhood education. This course requires the successful completion of a portfolio providing validation of teacher core competencies. In addition, this course requires the successful completion of an on-site observation of student's competency levels in each of the designated functional areas. Students must also demonstrate a current pediatric first aid and CPR certification at the completion of this course.
Students who are not working in an early learning setting will need to successfully complete 480 hours of valid work experience with children ages birth to five years. This course will support students in attaining the educational requirements for the Florida Child Care Professional Credential (FCCPC) and/or the national Child Development Associate Credential (CDA).

EEC1701, Child Development
4 hrs., 4 crs.
This course encompasses major learning and teaching outcomes designed to provide students with learning opportunities related to the study of child development with an emphasis on the typical and atypical elements of physical, cognitive, and psychosocial development of the young child, age's birth to 5 years. Theories of early childhood development and recent brain research provide the foundation for teaching techniques that foster healthy development in each of the developmental domains. This course provides an overview of developmentally appropriate practices for children with a focus on best practices for nurturing the development of the whole child. This course is a pre- or co-requisite for all other EEC courses.

+#EEC1732, Infants, Toddlers, & Caregivers
3 hrs., 3 crs.
Prerequisite/Corequisite: EEC1701.
This course is designed to provide students with learning opportunities addressing foundational stages and sequence of infant-toddler development, introduce students to the definition and use of developmentally appropriate practices in home and classroom environments , correlate individual infant and toddler care plans to the development of the whole child, and embed curriculum implementation within care routines. Emphasis is placed on the implementation of respective caregiving, responsive attachment, and environmental teaching strategies that promote quality programming in infant and toddler care settings. Observations and practicum assignments in early learning/child development programs are required.

+#EEC2223, Art, Music, and Movement for Young Children
3 hrs., 3 crs.
Prerequisite/Corequisite: EEC1701.
EEC 2223, Art, Music, and Movement for Young Children, is a web-hybrid course. This course is designed to provide students with learning opportunities related to the theory and practice of art and music appreciation and movement theory and practices, as a foundation for the development of the whole child, birth to eight years of age. Educational and brain research is

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*Minimum grade of "C" required.

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presented with art, music, and movement theory to support the student in fostering environments and teaching strategies that assist in developing the whole child. The basics of art and music appreciation and movement education provide teachers and practitioners with an overlay of theoretical concepts transformed into practical classroom techniques. Teaching artifacts and student observation in diverse child related settings are required for this course.

+EEC2240, Social Studies and Creative Expression for Young Children
3 hrs., 3 crs.
Prerequisite/Corequisite: EEC1701.
This methods class provides students with the knowledge of developmentally appropriate social studies and creative expression concepts for children birth through age eight and techniques for incorporating them throughout the curriculum. Topics include culture, time, people, places, individual and global identity, sense of community, dramatic play, music, art, and creative movement. Current educational research and brain research is presented as the foundation for understanding the role of the early childhood educator in implementing curriculum as a broad technique for supporting the development of the whole child. The course also includes assessment of typical and atypical development in order to design appropriate accommodations to meet the needs of all children enrolled in the early childhood program.

+#EEC2523, Leadership and Management of Child Care Programs
3 hrs., 3 crs.
Prerequisite/Corequisite: EEC1701.
This course is designed to provide students with targeted strategies to develop a broad perspective and knowledge base for problem solving, planning, implementing, and evaluating health, safety, and nutritional processes necessary within a quality early education and care setting. Successful completion of this course also meets the educational requirement for the Foundational Level Child Care and Education Administrator Credential, as defined by the State of Florida.

+EEC2602, Guiding the Young Child
3 hrs., 3 crs.
Prerequisite/Corequisite: EEC1701.
This course is designed to provide students with learning opportunities related to the principles of observing, recording, and interpreting child behavior within the early childhood environment. Emphasis is placed on the role of observation and of the observer in developing strategies that support the healthy development and coping techniques of the young child. Typical and atypical patterns of behavior are identified, as well as genetic and environmental factors that influence child behavior. Child related observations and teaching artifacts required for this course.

+EEC2713, Facilitating Social Development
4 hrs., 4 crs.
Prerequisite/Corequisite: EEC1701.
This course is designed to provide students with learning opportunities in the development, selection, and implementation of developmentally appropriate activities that support the development of the whole child with a targeted emphasis on social-emotional development. A child-centered philosophy utilizing positive guidance skills is presented with opportunities for practice and implementation. Elements of the course include outcome-based activity design, activity evaluation, and development of classroom routines, transitions, and small group learning to promote social-emotional development. Areas of study include theme-based activity planning and child-interest based planning. This course supports the Florida Child Care Professional Credential and the national Child Development Associate Credential. Course includes a practicum, which requires students have access to some type of early childhood learning environment to complete practicum assignments and observations.

+#EEC2734, Health, Safety, and Nutrition for Young Children
3 hrs., 3 crs.
Prerequisite/Corequisite: EEC1701.
This course is designed to provide the student with learning opportunities that include the role of nutrition, healthy, and safe practices as it relates to providing early education and care for the young child. Emphasis is given to understanding the role of

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consistently incorporating healthy practices within the child's day. Instruction related to the documentation and appropriate implementation of processes that resolve childhood emergencies is also included in this course.

EET – ELECTRONIC ENGINEERING TECHNOLOGY

+#EET1035C, AC & DC Circuits
6 hrs., 4 crs.
$7.00 lab fee
Prerequisite: EET1084C.
Corequisite: MAC1105.
This integrated lecture/lab course continues the study of AC and DC circuits beyond Introductory Electronics. Topics include current, voltage, resistance, and power in series, parallel, and combination DC circuits. Capacitance, inductance, resonance, and power will be covered in AC circuits. Network theorems, filters, networks, and transformers will also be covered. The lab portion develops skills in fabricating circuits, reading schematic diagrams, measuring circuit parameters, and troubleshooting circuit faults. Student will use basic testing equipment such as the digital multimeter, function generator, and power sources. Computer simulation software is used to predict voltages and currents in various circuits and to verify results through hands-on experimentation.

+#EET1084C, Introduction to Electronics
4 hrs., 3 crs.
$7.00 lab fee
Introduction to the principles of electricity, magnetism, and basic laws. Includes fundamentals of analog and digital electronic components and circuits, including applications. Laboratory exercises will consist of experiments with basic circuits and test equipment, as well as an introduction to mobile robotics.

+#EET1140C, Electronic Devices and Circuits
6 hrs., 4 crs.
$7.00 lab fee
Prerequisite: EET1035C.
Integrated lecture and laboratory experiences in the study of semiconductor devices and their application in electronic circuits. Included is the study of the structure of matter, diodes, transistors, biasing, FETs, PNPNs, single stage amplifiers, and other devices. Study of power supplies, oscillators, and amplifiers using discrete components and operational amplifiers are included. Design of these circuits, frequency response, stabilization, and feedback will be considered.

+#EET2183C, Electronic Troubleshooting Techniques
3 hrs., 2 crs.
Prerequisite or Corequisite: EET2142C.
An advanced course combining troubleshooting, automated test equipment, and instrumentation. Fundamental concepts of troubleshooting from the system to component level. Includes analog and digital troubleshooting, ATE bus and hardware design, ATE software, instrumentation, and analyzers.

+#EET2214C, LabVIEW Instrumentation
5 hrs., 3 crs.
$23.00 lab fee
This course teaches programming concepts, techniques, features, virtual instrumentation, and functions used to create test and measurement, data acquisition, instrument control, datalogging, measurement analysis, and report generation applications. Experience is also gained in writing algorithms in the form of flow charts and block diagrams.

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EET2280C, Data Acquisition and Control
5 hrs., 3 crs.
$23.00 lab fee
Prerequisite: EET2214C.
This course teaches four fundamental areas of system development—design, implement, test, and deploy.   Learn to produce data acquisition systems that use good programming practices, are easy to use, and maintainable. Students will learn to program real-time applications on the CompactRIO data acquisition and control platform.

+#EET2355C, Digital Communications
5 hrs., 3 crs.
$23.00 lab fee
Prerequisite: EET1140C, CET1112C.
Lecture/laboratory experiences in the study of electronic communications, including digital RF transmissions and analysis, microwave, fiber-optic, and laser communications. Study of coding, transmission, and decoding of pulse transmission systems, error detection, and troubleshooting techniques.

EET2931, Special Projects in Electronics
3 hrs., 3 crs.
Course centering around topics of current interest or of special interest to students or instructors. Students have the opportunity to research, design, and prototype new projects. Topics or focus may vary from semester to semester. The course can be repeated up to two times.

+EET3218C, Control Systems Technology
6 hrs., 4 crs.
$7.00 lab fee
Prerequisites: MAN3303. EET2280C.
The student will develop basic knowledge of: controllers and their principles, control loop characteristics, selection, design and development of feedback control systems.

+EET4328, Wireless Systems
3 hrs., 3 crs.
Prerequisite: MAN3303, EET2355C.
This course examines the specific systems in wireless including the principles of transmitters and receivers, analog and digital cellular telephone systems, personal communication systems, satellites for wireless communication, paging systems, wireless data communication techniques, and emerging wireless technologies.

+EET4935, Special Topics in Electrical Engineering Technology
3 hrs., 3 crs.
Prerequisites: MAN3303 or permission of department chair.
Covers several topics in guiding students to develop advance skills in electrical engineering technology especially on advanced technological concepts, problem solving abilities, technical project development and analysis.

EGN – ENGINEERING: GENERAL

EGN1110C, Engineering Drawing
6 hrs., 3 crs.
$20.00 lab fee
Student must provide own drafting instruments.
A basic course in graphical expression. This course focuses on using 3-D visualization projects to solve problems and uses traditional drafting practices,. Areas covered will be orthographic projections, geometric constructions, isometric drawings, sectioning, dimensioning, and auxiliary views.

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+EGN2123, Computer Graphics for Engineers
2 hrs., 2 crs.
$14.00 lab fee
Corequisite: MAC2311
Apply the knowledge of mathematics, science and computing to understand the fundamentals of engineering graphics, draw geometric constructions, solve descriptive geometry problems, and produce graphical calculus and apply it to analyze empirical data. Produce two and three-dimensional drawings and design a product. Participate effectively in a multidisciplinary engineering project as part of a professional team. Apply computers using several software applications including: AutoCAD™ for producing computerized drawing, dimensioning and tolerances; Excel™ for spreadsheet and manipulation of data; and Maple (Mathcad™) for graphical calculus.

EGS – ENGINEERING SUPPORT

EGS1006, Introduction to Engineering
1 hr., 1 cr.
An introduction to engineering and technology as a profession with emphasis on the spectrum of work opportunities and career fields. The student is introduced to engineering work habits, responsibilities, communication requirements, problem solving techniques, and technical calculations.

EME – EDUCATION: TECHNOLOGY AND MEDIA

EME2040, Introduction to Technology for Educators
3 hrs., 3 crs.
Application of instructional design principles for the use of technology to enhance the quality of teaching and learning in the classroom. The course includes hands-on experience with educational media, emerging technologies, and hardware, software, and peripherals for the personal computer as well as data-driven decision-making processes. Identification of appropriate software for classroom applications, classroom procedures for integrating technologies with emphasis on legal and ethical use, and effective instructional strategies for teachers and students in regard to research, analysis, and demonstration of technology. Students will be provided an overview of the Florida Educator Accomplished Practices, Sunshine State Standards, the Professional Educator Competencies and the National Educational Technology Standards.

EMS – EMERGENCY MEDICAL SERVICES

+#*EMS1119, Emergency Medical Technician
5 hrs., 5 crs.
Corequisite: EMS1401.
The initial study of emergency medical services designed to enable the student to become proficient in the emergency care of the sick and injured. Completion of course leads to eligibility for licensure examination as an Emergency Medical Technician-Basic (EMT-B).

#*EMS1310, Emergency Medical Services Management
1 hr., 1 cr.
Designed for persons who supervise emergency medical services personnel. Emphasis is placed on goal setting, organizational structure, budgeting, communications, performance evaluation, and stress management.

#*EMS1335, Emergency Vehicle Operator I
1 hr., 1 cr.
Designed to meet Florida Health Department requirements that all emergency vehicle operators employed by EMS providers must have completed an ambulance driving program. The course combines lecture with a driving laboratory. (Students who are not active duty military must show proof of a valid Florida Driver's License.)

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#*EMS1381C, Emergency Medical Technician Refresher
2 hrs., 2 crs.
$23.00 lab fee
Designed for the EMT seeking renewal of state license or national certificate. A review of didactic material and clinical skills relevant to EMT knowledge objectives and clinical practice. Meets and exceeds requirements for state relicensure and national EMT recertification.

+#*EMS1401, Emergency Medical Technician Lab
8 hrs., 4 crs.
$23.00 lab fee
Corequisite: EMS1119.
Integrated experience including laboratory practice with manikins and simulated situations, clinical experience in the area hospitals, and field experience with the ambulance service.

+#*EMS1555, EMS Trauma Managaement
16 hrs., 1 cr.
Prerequisite: EMT certificate or permission of the instructor.
This course is designed for the EMS student, teaching the fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the National Basic Trauma Life Support Committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, and internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management, and transport with discussion on mechanism of injury and kinematics of trauma.

+#*EMS1761, Assistant Teaching in Emergency Medical Services
4 hrs., 4 crs.
Prerequisites: EMT license and permission of the instructor.
Emphasis is placed on lesson plan development, classroom management, awareness of EMS regulatory agency requirements for course content, and effective methods of instruction in cognitive material and psychomotor skills. The student participates in cognitive and psychomotor instruction under the supervision of EMS faculty.

#*EMS2010, Essentials of Human Structure and Function
3 hrs., 3 crs.
Designed for the EMS student, this course presents basic information on the structure and function of the human body. Applies principles of anatomy and physiology to demonstrate interaction of body systems as they maintain homeostasis. Emphasis will be placed on the nervous system, cardiovascular, and respiratory systems.

+#*EMS2231, Paramedic I
5 hrs., 5 crs.
Prerequisites: EMS1119, EMS1401.
The introduction of advanced life support skills of definitive airway management and intravenous therapy. Also includes sections on foundations, airway, patient assessment, and trauma.

+#*EMS2232, Paramedic II
5 hrs., 5 crs.
Prerequisites: EMS2231, EMS2435.
A continuation of EMS 2231 with emphasis on cardiology and advanced cardiac life support. Also includes sections on medicine, special patients, assessment-based management and operations.

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+#*EMS2233, Paramedic III
1 hr., 1 cr.
Prerequisite: EMS2232, EMS2436.
Culmination of paramedic program in which previous education and training are reviewed and applied to simulated situations. Completion of course leads to eligibility for paramedic licensure examination.

#*EMS2340C, Basic Vehicle Rescue and Extrication
1 hr., 1 cr.
Designed for the EMT student, teaching the fundamentals of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injuries is demonstrated and assessed. The course takes place with a mock scene and "junk" cars are used for experience with rescue tools. (Students who are not active duty military must show proof of a valid Florida Driver's License.)

#*EMS2391C, Paramedic Refresher
4 hrs., 3 crs.
$36.00 lab fee
A review of didactic material and clinical skills relevant to paramedic knowledge objectives and clinical practice. Meets and exceeds requirement for relicensure and national recertification.

#*EMS2425, Paramedic Internship
16 hrs., 4 crs.
Designed to enable the paramedic student to become a functional paramedic. Students are assigned to a preceptor with an area emergency medical service for six weeks of intensive field training. (Administration of the National Registry Skills Examination is included with the final examination.)

+#*EMS2435, Paramedic I Lab
10 hrs., 5 crs.
$36.00 lab fee
Corequisite: EMS2231.
Integrated experience including laboratory practice of advanced skills, clinical experience in area hospitals, and field experience with the ambulance service.

+#*EMS2436, Paramedic II Lab
12 hrs., 5 crs.
$19.00 lab fee
Corequisite: EMS2232.
Integrated experience including laboratory practice of advanced cardiac life support skills, clinical experience in area hospitals and field experience with the ambulance service.

+#*EMS2439, Advanced Clinical Internship
20 hrs., 5 crs.
$17.00 lab fee
Prerequisites: Florida EMT license and permission of instructor.
Supervised rotations in a variety of clinical settings designed to develop increased clinical proficiency, decision-making skills, and knowledge of pathophysiology of illness and injury.

+#*EMS2526, Twelve-Lead Electrocardiogram (EKG)
16 hrs., 1 cr.
Prerequisite: EMT certificate or permission of the instructor.
This course is designed for the EMS student, teaching the fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis is placed on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the

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*Minimum grade of "C" required.

best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

+#*EMS2553, Pediatric Advanced Life Support
16 hrs., 1 cr.
Prerequisite: EMT certificate or permission of the instructor.
This course is designed for the EMS student, teaching the fundamentals of recognizing infants and children that are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock, or cardiopulmonary arrest.

+#*EMS2558, Stroke Management
16 hrs., 1 cr.
Prerequisite: EMT certificate or permission of instructor.
This course is designed for the EMS student, teaching the recognition of the early signs and management of stroke and other related neurovascular emergencies. Other content includes stroke prevention, risk factors and medical interventions. This course incorporates lecture with scenario-based and case-based learning that reinforces the current concepts of stroke care.

+#*EMS2931, Emergency Response to Terrorism
16 hrs., 1 cr.
Prerequisite: EMT certificate or permission of the instructor.
This course is designed for the EMS student, teaching the fundamentals of safely recognizing and managing a terrorist attack on a civilian population. Emphasis is placed on the recognition and safe response to terrorist attacks including chemical, biological, radiological, and explosive agents. Includes proper use of personal protective equipment (PPE), ambulatory and incapacitated decontamination, and coordination with other public service agencies through the use of unified command structure.

+#*EMS2934, Special Topics: Advanced Medical Life Support
16 hrs., 1 cr.
Prerequisite: EMT certificate or permission of instructor.
This course is designed for the EMS student, providing the EMS student with a better understanding of the pathophysiology of disease processes. This course incorporates lecture with scenario-based and case-based learning that reinforces current concepts of emergency care for shock, chest pain, altered mental status and respiratory emergencies.

ENC – ENGLISH COMPOSITION

College Preparatory English

The following are developmental courses not intended to satisfy any part of the college-level English requirements and not counted as part of the required hours for graduation. A minimum grade of "C" is required to progress to the next course.

+*ENC0015, Developmental Writing I
4 hrs., 3 crs.
$5.00 lab fee
Must be passed with minimum grade of "C." (A developmental course that does not satisfy General Education requirements in English or count toward required hours for graduation.)
A study of the elements of standard English grammar, mechanics, and usage.

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*Minimum grade of "C" required.

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+*ENC0022, Developmental Writing I and II Combined
4 hrs., 3 crs.
$5.00 lab fee
Must be passed with minimum grade of "C."
This course is a developmental course that is not intended to satisfy any part of college-level English requirements and not counted as part of the required hours for graduation. A study of the elements of standard English grammar, mechanics, and usage. Writing from the paragraph to the essay; introduction to expressive, expository, and persuastive writing; and introduction to research techniques.

+ENC0025, Developmental Writing II
5 hrs., 4 crs.
$5.00 lab fee
Prerequisite: ENC0015 or satisfactory score on the Gulf Coast State College placement test.
Writing from the paragraph to the essay; introduction to expressive, expository, and persuasive writing; introduction to research techniques; review of basic grammar, punctuation, spelling, sentence structure, and basic formatting. Must be passed with a minimum grade of "C." (A developmental course that does not satisfy General Education requirements in English or count toward required hours for graduation.)

+*ENC0055L, Developmental Composition Lab Support
2 hrs., 1 crs.
Prerequisite: Non-exempt students earning a PERT score of 86-102 and exempt students earning a PERT score of 50-102 or by faculty advisement should take ENC0055L.
Must be passed with minimum grade of "C."
A writing lab course taken concurrently with ENC1101 that will focus upon the elements of standard English grammar, mechanics, usage and the writing process.

College-Level English

The Associate of Arts degree requires that six credit hours of college-level English be completed with a minimum grade of "C." It is required that prerequisite English or reading courses for entry into college-level English be completed with a minimum grade of "C" or that students earn a passing score on the Florida College Entry-Level Placement Test in English and reading.

ENC1101, English Composition I
3 hrs., 3 crs.
$5.00 lab fee
Minimum competency in word processing needed.
Impromptu and process-based writing, inclusive of a multiple-source essay. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+ENC1102, English Composition II
3 hrs., 3 crs.
$5.00 lab fee
Prerequisite: ENC1101 with a minimum grade of "C."
Rhetoric of the argumentative essay and the documented paper. Compositions based on readings of fiction, nonfiction, drama, poetry, film, video, and other media. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

ENC1930, Introduction to Critical Thinking
3 hrs., 3 crs.
Creative and critical thinking skills applied to current problems and issues in oral and written communication. Course emphasizes deliberation in classroom forums.

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*Minimum grade of "C" required.

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+ENC2210, Technical Writing
3 hrs., 3 crs.
$5.00 lab fee
Prerequisite: ENC 1101 with a minimum grade of "C."
Applies written and oral English skills to technical communication assignments, such as definitions, object or mechanism descriptions, process descriptions, instructions, analyses, proposals, memoranda, feasibility, laboratory, and technology research reports and resumes. Emphasizes clarity, objectivity, simplicity, and readability by multiple audiences. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+ENC2301, 2302, 2303, 2324, Supplementary Composition Skills
1 hr., 1 cr. each
Prerequisite: CLEP credit for General Education English or ENC 1102 with a minimum grade of "C."
Expository and argumentative writing for students (a) who have earned CLEP credit for General Education English or Areas II or III Humanities but still need to fulfill the writing requirements of the institution or (b) who have completed ENC 1101 and ENC 1102 with a minimum grade of "C" and want to develop their writing skills.   This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

ENG – ENGLISH: GENERAL

+*ENG2111, Literature and Film
3 hrs., 3 crs.
Prerequisite: ENC1102 with a minimum grade of "C." (Meets Literature Humanities requirement.)
Examines works of literature and their film adaptions, comparing written and cinematic narrative forms, writing elements and film composition techniques. , This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

ENL – ENGLISH LITERATURE

+*ENL2012, English Literature Through the Eighteenth Century
3 hrs., 3 crs.
Prerequisite: ENC1102 with a minimum grade of "C." (Meets Area III Humanities requirement.)
Masterpieces, literary movements, forms, and themes of English literature from its beginning to the end of the eighteenth century. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*ENL2022, English Literature: Romantics to Present
3 hrs., 3 crs.
Prerequisite: ENC1102 with a minimum grade of "C." (Meets Area III Humanities requirement.)
Masterpieces, literary movements, forms, and themes of English literature from the nineteenth century to the present. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

ENT – ENTREPRENEURSHIP

ENT2000, Introduction to Entrepreneurship
3 hrs., 3 crs.
This course provides an overview and practical applications of the various activities involved in owning and operating a small business enterprise.

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+ENT2112, Business Plans
3 hrs., 3 crs.
Corequisite: ENT2000.
This course is specifically designed for students seeking a certificate in entrepreneurship, or elective toward and AS degree in business. It is the capstone course to obtain the certificate in entrepreneurship operations. Competencies and learning outcomes are intended to provide the skills necessary for students to prepare a functional business plan for use in all aspects of owning and operating a small business enterprise.

+ENT2172, Opportunity Analysis and Franchising
3 hrs., 3 crs.
Corequisite: ENT2000.
This course is designed as a how to specifically for students seeking a certificate in entrepreneurship, or elective toward an AS degree in business. Competencies and learning outcomes are intended to provide basic functional knowledge in identifying, evaluating, and matching business concepts, with personal goals and skills, as well as opportunities that are created in the natural business cycles of social change, demography, & technology. Franchising is explored in depth from the perspective of the franchisor and franchisee.

+ENT2411, Small Business Accounting and Finance
3 hrs., 3 crs.
$25.00 lab fee
Corequisite: ENT2000.
This course is designed specifically for students seeking a certificate in entrepreneurship or elective toward an AS in business. It does not fulfill the complete accounting requirements for the AS degree in business. Competencies and learning outcomes are intended to provide basic functional knowledge and initial application capabilities in accounting and finance procedures to individuals seeking to own and operate a small business enterprise.

+ENT2430, Funding Acquisition and Legal Issues
3 hrs., 3 crs.
Corequisite: ENT2000.
This course is designed specifically for students seeking a certificate in entrepreneurship or elective toward an AS degree in business. Competencies and learning outcomes are intended to provide a basic functional knowledge of the law, and the application required in the process of obtaining funds from various sources to start up and operate a small business.

+ENT3003, Principles of Entrepreneurship
3 hrs., 3 crs.
Prerequisites: ENT2000, ENT2411.
Corequisites: CGS1570, MAN3303.
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.

EPI – EDUCATOR PREPARATION INSTITUTES

EPI0001, Classroom Management
3 hrs., 3 crs.
Participants in this course will be provided opportunities and experiences supporting successful methodologies for classroom management. Topics include establishing rules and consequences, setting classroom procedures, conducting parent-teacher conferences, and planning the first day of school. In this course, students will write and submit a classroom management plan.

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EPI0002, Instructional Strategies
3 hrs., 3 crs.
This class focuses on planning for instruction. Participants will explore diverse instructional strategies, utilize Bloom's Taxonomy to prepare lessons, write learning outcomes, and create a unit plan. Additionally, participants will create traditional and alternative assessment instruments to document student learning.

EPI0003, Teaching and Technology
3 hrs., 3 crs.
Participants in this course will be provided structured opportunities to employ technology as an integral part of the teaching and learning process. Instruction is provided in commonly used software suites, effective integration strategies, educational software evaluation, and the use of Internet resources in the classroom.

EPI0004, The Teaching and Learning Process
3 hrs., 3 crs.
Participants in this course will form a foundation in various learning theories as applied in the instructional process. Topics will include theories of psychosocial and cognitive development, behavioral learning theory, information-processing theory, social cognitive theory, and the constructivist learning theory. Students will apply concepts by creating a problem-based learning lesson plan.

EPI0010, Foundations of Research-Based Practices in Reading
3 hrs., 3 crs.
$50.00 lab fee
This course is designed to help teachers improve reading instruction for students in grades K-12 by delivering current, relevant, scientifically based and classroom-based information on teaching reading. Course topics insure that all participants have the opportunity to demonstrate Competency 2 in reading. Topics include how children learn to read, factors effecting reading, quality reading instruction, vocabulary, comprehension, assessment, differentiated instruction, and the importance of reflection.

EPI0020, The Teaching Profession
2 hrs., 2 crs.
This course teaches the foundation for becoming a productive member of the teaching profession. Topics will include history and philosophy of education, school governance, school finance, school law, ethics, purpose of schools, and continuing professional development.

EPI0030, Diversity in the Classroom
2 hrs., 2 crs.
Participants in this course will be provided opportunities to gain an appreciation for the variety of backgrounds and cultures that may be found in a typical classroom. Additional foundational theory and structured experiences will address how social class, religion, language, gender differences, culture and ethnicity, physical differences, and prejudices have an effect on how a student learns.

+EPI0940, The Teaching Profession: Field Experience
1 hr., 1 cr.
$100.00 lab fee
Prerequisite: EPI0002, EPI0010. Corequisite: EPI0945.
Participants in this course will be directly observed for performance of competencies associated with highly effective teaching as described by the Florida Educator Accomplished Practices. The field experience consists of a total of 20 hours of performances and observations that must be completed in a K-12 public or charter school. A cleared background check and a Statement of Status of Eligibility from the Florida Department of Education are required before students can register for this class.

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+EPI0945, Diversity in the Classroom: Field Experience
1 hr., 1 cr.
$100.00 lab fee
Prerequisite: EPI0002, EPI0010. Corequisite: EPI0940.
Participants in this course will be directly observed for performance of competencies associated with highly effective teaching as described by the Florida Educator Accomplished Practices. The field experience consists of a total of 20 hours of observations and performances that must be completed in a public or charter school. A cleared background check and a Statement of Status of Eligibility from the Florida Department of Education are required before students can register for this class.

ESC – EARTH SCIENCE

ESC2000, Earth and Space Science Survey
3 hrs., 3 crs.
An introductory course that consists of four units that emphasize broad coverage of the basic topics and principles in geology, oceanography, astronomy, and meteorology. The course is intended to meet the need of Pre-Elementary Teacher Education majors as well as general education requirements.

ETC – ENGINEERING TECHNOLOGY: CIVIL

+#ETC2213, Engineering Properties of Soils
3 hrs., 3 crs.
Corequisite: ETC2213L.
A study of the origin, composition, and characteristics of soils. Includes a study of the types and structure, classification and properties, stress, settlement, and compaction of soil.

+#ETC2213L, Engineering Properties of Soils Lab
15 hrs., 1 cr.
Corequisite: ETC2213.
A lab devoted to the study of the engineering and mechanical properties of soils. Includes moisture content determination, specific gravity, sieve and hydrometer analysis, Atterburg limits, compaction, and Proctor testing. Emphasizes ASTM standard laboratory procedures.

+#ETC2450, Concrete Design
3 hrs., 3 crs.
Corequisite: ETC2450L.
A study of the properties of concrete, its design and control, reinforcement, admixtures, forming, and placing. Includes concrete technology as it applies to prestressing, precasting and casting in place in the design of columns, beams, slabs, and other structures.

+#ETC2450L, Concrete Design Laboratory
15 hrs., 1 cr.
Corequisite: ETC2450.
A lab devoted to the study of the design of concrete mixes and the testing of concrete cylinders, beams, and structural shapes. Includes problems on reinforced concrete. Includes the requirements for the American Concrete Institute (ACI) Concrete Field Testing Technician Certification. Emphasizes ASTM standard laboratory procedures.

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ETD – ENGINEERING TECHNOLOGY: DRAFTING

+#ETD1320, AutoCAD
3 hrs., 3 crs.
$1.00 lab fee
Prerequisite: EGN1110C or drafting experience.
A beginning course in AutoCAD. Content includes drawing to scale, editing, plotting a drawing, the use of library symbols and files management.

+ETD2350, Advanced AutoCAD
3 hrs., 3 crs.
$18.00 lab fee
Prerequisite: ETD1320.
An advanced course in AutoCAD. Includes external references, drawing environments and viewports, utility commands, special features, 3D modeling, rendering, customizing AutoCAD menus, and AutoLISP.

+#ETD2357C, AutoDesk Inventor
6 hrs., 3 crs.
$18.00 lab fee
Prerequisite: EGN1110C or previous drafting experience.
This course forms a solid foundation in the basics of using AutoDesk Inventor (a Parametric Solid Modeling Mechanical Design software package).

#ETD2364C, Introduction to Solidworks
4 hrs., 3 crs.
$37.00 lab fee
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.

+#ETD2368C, Advanced Solidworks
4 hrs., 3 crs.
$37.00 lab fee
Prerequisite: ETD2364C.
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.

+#ETD2369C, Solidworks Advanced Applications
4 hrs., 3 crs.
$37.00 lab fee
Prerequisite: ETD2364C.
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.

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+#ETD2395, CAD for Architecture
6 hrs., 3 crs.
$18.00 lab fee
Prerequisite: TAR1120 or equivalent.
The student will use Architectural CAD software to complete a 3-D design and set of working drawings. This will consist of a Floor Plan, 4 Elevations, Structural Section, Floor and Roof Framing Plan, and a Presentation Drawing.

ETG – ENGINEERING TECHNOLOGY: GENERAL

+ETG2502, Statics
3 hrs., 3 crs.
Prerequisite: MAC1114 or MTB1322.
Basic principles of statics; resolution and composition of forces; equilibrium of forces; simple machines; trusses and frames; screws and threads; friction; centroids and center of gravity; moment of inertia, and radius of gyration. Includes scale model analysis and testing of bridge and truss-type structures.

+ETG2530, Strength of Materials
3 hrs., 3 crs.
Prerequisite: ETG2502.
Stress and deformation; riveted and welded joints; thin-walled pressure vessels; torsion; shear and moment of beams; columns. Includes scale model analysis and testing of tower and column-type structures.

ETI – ENGINEERING TECHNOLOGY: INDUSTRIAL

#ETI1411, Manufacturing Processes I
3 hrs., 3 crs.
A study of methods and materials used in industrial production of nonchip producing processes, including casting, forging, welding, stamping, shearing, brake, powder, metallurgy, electrical discharge machining, high energy rate forming.

#ETI1420, Manufacturing Processes II
3 hrs., 3 crs.
A study of methods, materials, and machines used in industrial production of chip producing processes, including turning, milling, grinding, drilling, reaming, boring, broaching, sawing.

#ETI1701, Industrial Safety
3 hrs., 3 crs.
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.

#ETI2001C, Applied Mechanics
4 hrs., 3 crs.
This course takes a hands-on approach to the identification, use, care of tools, equipment, blueprint reading, geometric dimensioning, and tolerances used in all aspects of operations and manufacturing.

+#ETI2110, Introduction to Quality Assurance
3 hrs., 3 crs.
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 method of analyzing data through statistical process control (SPC) charts is also covered.

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+ETI3418, Computer Numerical Control Systems
3 hrs., 3 crs.
Corequisite: MAN3303 or permission of department chair.
Theory of methods and concepts for machining, computer numerical controls/programs, types of operations, cutting tools, machine tools, and electrical discharge machines.

+ETI3621, Techniques in Lean Manufacturing
3 hrs., 3 crs.
Corequisite: MAN3303 or permission of department chair.
This course presents the basic principles, techniques, and benefits of lean manufacturing for a world-class manufacturing environment. Lean manufacturing involves identifying and eliminating non-value-adding activities in design, production, supply chain management, and customer relations. The coverage includes topics related to manufacturing improvement, value stream mapping, total productive maintenance (TPM), modular manufacturing, continual improvement, overall equipment effectiveness (OEE), and process capability.

+ETI4480, Applied Robotics
3 hrs., 3 crs.
Prerequisite: ETS2606C. MAN3303.
The students will learn robotics programming for multifunction part manipulation and motions with stepper and servo-motor robot application. The students will become familiar with advanced control schemes and sensors and actuators used in industrial robots. Lab experiences will be developed with the adept scara robot, including a vision system for assembly application.

+ETI4704, Occupational Safety
3 hrs., 3 crs.
Corequisite: MAN3303 or permission of department chair.
Accident prevention and the operation of an industrial safety program. Basic requirements of the Occupational Safety and Health Act Standards.

ETP - ENGINEERING TECHNOLOGY: POWER

#ETP1410C, Solar Energy
6 hrs., 3 crs.
$7.00 lab fee
This course provides students with the basic principles of photovoltaic and solar heating systems design and installation. The course will discuss evolving policies, technologies and career areas. Students will analyze a site or location and evaluate it for solar applications and be able to describe passive heating and cooling building designs; design a solar water heating system, a solar cooking device, and a solar energy efficiency mode; and diagram a solar thermal electric system, analyze solar manufacturing issues including equipment evaluation and types of collectors and filters; create a cost analysis for a solar powered project; and complete a solar energy project.

#ETP1500, Alternative Energy Inventory & Analysis
3 hrs., 3 crs.
This course provides students with basic principles of: conversion of energy into electricity; the requirements and conditions of power electronics converters; economics and trading of green electricity. The course will discuss evolving alternative energy policies, technologies and career areas. Alternative Energy and Analysis provides a global vision of available and potential energy sources, discusses their particular advantages and drawbacks, and helps prepare current and future generations to use energy differently and exploit new energy sources.

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#ETP1500L, Alternative Energy Inventory & Analysis Lab
3 hrs., 3 crs.
This course provides students with the basic principles of: building science and residential energy; the procedures used to assess the performance of new and existing buildings. The lab provides specific instructions on identifying the most effective energy conservation procedures.

#ETP1501, Introduction to Energy, Environment, and Society
3 hrs., 3 crs.
This course provides students with the basic principles and history of traditional and alternative energy sources; current industry and government status of geothermal, wind, solar, biomass, fuel cells and other traditional energy sources. The course will discuss evolving alternative energy policies, technologies, and career areas.

+#ETP1510, Biofuels and Biomass
3 hrs., 3 crs.
Prerequisite: ETP1500.
This course provides students with the basic principles of Biofuels and Biomass systems design and installation. Students in this course will identify biofuels and biomass fuel sources (organic matter); describe biofuels and biomass technologies, applications and efficiency; analyze biofuels and biomass manufacturing, distribution and integration issues; evaluate biogas and its sources and site location; design a biofuels and biomass system and its related components; and identify various microturbines and their components.

+#ETP1520, Geothermal Energy
3 hrs., 3 crs.
Prerequisite: ETP1500.
This course provides students with the basic principles of geothermal systems design and installation. The course will discuss evolving policies, technologies and career areas. Students will analyze a site or location and evaluate it for geothermal applications and be able to describe passive heating and cooling building designs; design a geothermal system, geothermal efficiency model; analyze geothermal manufacturing issues including equipment evaluation; create a cost analysis for a geothermal project; and complete a geothermal project.

#ETP1550, Alternative Fuels and Electric Vehicle Technologies
3 hrs., 3 crs.
$7.00 lab fee
An overview of alternative fuels technology related to automobiles and the infrastructure that supports them. Technologies addressed in the course will include compressed natural gas, liquid petroleum gas, methanol, ethanol, electric, fuel cell and hybrid electric. The description, application, and characteristics of alternative fuels will be covered. The course presents the history, legislation, regulations, safety, environmental impact, vehicle design, manufacturing, processing, and storage of the major alternative fuel technologies available today and those anticipated in the near future.

#ETP2322, Distributed Electrical Power Generation and Storage
3 hrs., 3 crs.
$7.00 lab fee
A study of the electrical distribution grid and emerging Smart Grid technologies including: grid architecture, functionality, equipment, smart meters, data capabilities, and energy storage technologies. Topics such as: interconnection of various electrical power sources to the grid, the flow of power, outage monitoring and handling, and security are covered.

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ETS – ENGINEERING TECHNOLOGY: SPECIALTY

+#ETS1112C, Industrial Electronics
6 hrs., 4 crs.
$33.00 lab fee
Prerequisite: EET1035C.
The objective of this course is to provide an exposure to many types of industrial electronics. This course will include the study of mechanical, electromechanical, and solid-state devices, thyristors, open- and closed-loop control systems, sensors and transducers, actuators, motors, telemetry, robotics, programmable controllers, and other areas.

#ETS1520C, Fundamentals of Instrumentation and Electronics
5 hrs., 3 crs.
$7.00 lab fee
Provides the student with a basic knowledge of instrumentation and how sensors are used in industry. Topics include fundamentals of analog and digital electronic components and circuits, including applications. Course will cover principles of temperature, pressure, flow, and level measurement devices. Laboratory exercises will consist of experiments with basic circuits, test equipment, sensors, and actuators.

+#ETS2511C, Motor and Motion Control
6 hrs., 3 crs.
$33.00 lab fee
Prerequisite: EET1035C.
Prerequisite/corequisite: ETS2542C.
This course provides experiences with electro-mechanical devices such as relays, timers, counters, proximity sensors, photo sensors, and solid state relays for control applications. Motors and motor control circuits using motor starters and variable frequency drives (VFDs) controlled by programmable logic controllers (PLCs) are developed for various control applications. Motion control is developed using Allen-Bradley servo drives controlled by AB Control Logix and RSLOGIX 5000 software.

+#ETS2535C, Process Control and Instrumentation
6 hrs., 3 crs.
$33.00 lab fee
Prerequisite: ETS2542C.
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, and digital set point and with analog processing, and P.I.D. control. The Allen-Bradley PLC 1500 PLC processors will be used as the process controllers with a process control trainer to design, construct, interface, program, and troubleshoot control circuits and systems. The process software for the course will be the Allen-Bradley RSLOGIX 5/500 and RSVIEW32 Human Machine Interface.

+#ETS2542C, Programmable Logic Controllers
6 hrs., 3 crs.
$33.00 lab fee
Prerequisite: CET1112C or ETS1520C.
This course covers the applications, servicing and troubleshooting of programmable logic controller circuits. The Allen-Bradley PLC processor with RSLOGIX software is applied to control applications involving rung programming, sequencers, timers, counters, data manipulations, instructions, math instructions, file-to-file moves, and communications using A/B Data Highway. Laboratory experiences include the design and troubleshooting of ladder logic programs with interfacing to hydraulics, pneumatics, and electrical sensors such as relays, limit switches, photo sensors, proximity detectors, pressure switches, solenoid valves, and a pneumatic pick-and place robot for industrial purposes.

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+#ETS2606C, Robotics
6 hrs., 3 crs.
$33.00 lab fee
Prerequisite: ETS2542C.
Types of robots will be studied, such as servo point‑to‑point, non-servo pick and place, Cartesian, lead through teach, stepper control, pneumatic PLC control, etc. Robot programming, interfacing, and design of robotic workcells for industrial applications will be developed. A study of robot configurations, programming techniques for applications found in assembly, inspections, welding, painting, and in material handling applications. Lab experiences will be developed with the ADEPT SCARA robot, including a vision system for assembly applications.

+#ETS2680C, Mechatronics I
5 hrs., 3 crs.
$33.00 lab fee
Prerequisite: EET1084C or ETS1520C.
Provides the student with an introduction to mechatronics and measurement systems. Topics include microcontroller programming and interfacing, data acquisition, and mechatronics control architectures. Laboratory exercises will consist of experiments with microcontrollers, sensors, actuators, and data acquisition hardware.

+#ETS2681C, Mechatronics II
6 hrs., 3 crs.
$33.00 lab fee
Prerequisite: ETS2680C.
This course serves as a way to integrate all other courses in the sequence in a single system. Topics include mechatronics system concepts, safety, machine operation, sensors, pneumatics, electrical systems, and robotics. Laboratory exercises will consist of operating, programming, and problem solving of mechanical, electronic, and software systems on seven mechatronics training stations and one robotics training station.

+#ETS2700C, Electro-Hydraulics and Pneumatics
6 hrs., 3 crs.
$43.00 lab fee
Prerequisite: EET1035C.
Prerequisite/corequisite: ETS2542C.
This course covers hydraulic and pneumatic applications as found in industrial control applications. Content includes basic physical laws, properties of fluids, hydraulic pumps, circuit design/applications, deceleration/braking of hydraulic actuators, fluid filtration in hydraulic circuits, and troubleshooting. This course covers pneumatic applications as found in industrial control systems. Content includes basic physical laws, pressure and force, air compressors, control valves, actuators, sequencing and counterbalance circuits, and troubleshooting.

ETS2931, Special Projects in Computer Integrated Manufacturing
3 hrs., 3 crs.
Course centering around topics of current interest or of special interest to students or instructors. Students have the opportunity to research, design, and prototype new projects. Topics or focus may vary from semester to semester. The course can be repeated up to two times.

+ETS3650C, Industrial Networking
4 hrs., 3 crs.
Prerequisite: ETS2542C.
Corequisite: MAN3303.
This Class covers Industrial TCP/IP, Ethernet/IP, DeviceNet, and Control Net, for interfacing
PlCs, remotely located I/0 modules, drives, and other industrial devices. Other networks such as Allen-Bradley Data Highway Plus, Modbus RTU, and DF-1will be discussed as applied to PlC and industrial control applications. The Allen-Bradley PC applications RSlinx, RSlogix500, RSlogix5000, RSNetworks for DeviceNet, and RSNetworks for ControiNet will be used. Network configurations for data collection into Human Machine Interfaces, such as RSView and Microsoft Excel will be covered.

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EUH – EUROPEAN HISTORY

EUH1000, Western Civilization I
3 hrs., 3 crs.
This is a survey of western civilization stressing early development, diffusion of cultural institutions, and the emerging national monarchies to 1600. The subjects covered include Ancient Egypt, Mesopotamia, Greece, Rome, Byzantium, and Islam. Emphasis is placed on the Middle Ages, the Renaissance, the Protestant Reformation, and the Commercial Revolution.

EUH1001, Western Civilization II
3 hrs., 3 crs.
This course examines modern Western institutions from 1600 to the present day including the Modern State System, the Scientific Revolution, the Enlightenment, the French Revolution, Napoleon, Reaction, the development of Nationalism, Democracy, and Socialism, Industrialism, Imperialism, the Russian Revolution, the World Wars, and the Contemporary World.

EUH2021, Survey of Medieval History
3 hrs., 3 crs.
This course will examine the medieval world from the "fall" of the Roman Empire to the coming of the Renaissance. Its main emphasis will be on Western Europe but it will give due consideration to the neighboring civilizations of Byzantium and Islam. Cultural, intellectual, and social developments will be considered within a political framework. College level reading is strongly recommended.

EVR – ENVIRONMENTAL STUDIES

EVR1001, Introduction to Environmental Science
3 hrs., 3 crs.
Introduction to the study of major environmental problems and issues confronting modern society. Topics include ecosystem structure and function; population patterns and dynamics; pollution of the air, water, and land; and resource management. This course satisfies general education requirements for the physical sciences.

+EVR1001L, Introduction to Environmental Science Laboratory
3 hrs., 1 cr.
$65.00 lab fee
Prerequisite or Corequisite: EVR1001.
Laboratory activities will focus on resource management issues. Student will learn how to design experiments, conduct field work, college and analyze data, and prepare scientific reports. (Recommended for students majoring in science or secondary science education.)

EVT – EDUCATION: VOCATIONAL/TECHNICAL

#*EVT2060, Basics of Education for the Technical Expert
45 hrs., 3 crs.
Provides an overview of the basic principles and theories of adult learning, learning styles, the use of Blooms Taxonomy and assessment. Also includes the basic of developing a lesson plan along with the use of multimedia in the classroom.

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FES – FIRE AND EMERGENCY SERVICES

+FES3533, Community Fire and Risk Reduction
3 hrs., 3 crs.
Prerequisite: GEB1011 or MNA1100.
This course introduces the students to the concepts and processes of fire and risk reduction within a community. The student will be prepared to investigate the community, assess community risks, develop supportign networks/strategies for intervention/action plans and perform risk reduction program evaluations.

FFP – FIREFIGHTING & PROTECTION

+=FFP0010, Firefighter 1
206 contact hrs., 6.9 vocational crs.
$132.00 lab fee
Corequisite: FFP1140 or EMS1119 or EMS2231
This course introduces the student to the skills and techniques used in firefighting. Classroom instruction includes a variety of fire related topics. Practical exercises and scenarios are included to enhance classroom instruction and skill development.

+=FFP0020, Firefighter 2
192 contact hrs., 6.4 vocational crs.
$85.00 lab fee
Prerequisites: FFP0010
This is a continuation course after Firefighter 1 and prepares the student for employment as a Florida certified firefighter. This course builds upon the skills and knowledge attained in Firefighter 1 and prepares students for mastery of the basic competencies required. After course completion, the student is eligible to take the certification examination given by the Florida State Fire College (FSFC).

+=FFP0069, Firefighter Minimum Standards Capstone
48 contact hrs., 1.5 vocational crs.
Prerequisites: FFP0010, FFP0020, and FFP1140
This course is designed to provide a comprehensive review of the subjects taught in the program prior to the State of Florida Firefighter Certification Examination. (Limited access: requires admission to the academy or special permission of the chair of Public Safety.)

=FFP0073, Basic Safety Course (STCW)
45 contact hrs., 1.5 vocational crs.
$297.00 lab fee
This course is a U.S. Coast Guard approved course that covers all of the four required courses for Standards of Training, Certification and Watch Keeping. This course teaches 1) basic principles and practices of fire prevention and firefighting aboard ship, 2) personal responsibility within the ship and society at large, 3) basic principles and practices to assist a layperson to utilize basic survival techniques on the water, and 4) first aid and CPR.

=FFP0075, Tankerman/Barge-PIC (Person in Charge)
45 contact hrs., 1.5 vocational crs.
This course is a U.S. Coast Guard approved course that will cover the required knowledge, application skills associated with tank barge operations and to supervise the safe and pollution free transfer of dangerous liquids as required by CFR 13.12 (f). This is accomplished through classroom lectures and exercises emphasizing the "operational" aspects of cargo operations.

#FFP1140, First Responder to Medical Emergencies
3 hrs., 3 crs.
$30.00 lab fee
This course introduces the student to the skills and techniques used for first responder to medical emergencies. Classroom instruction includes a variety of medical related topics encountered by firefighters. Practical exercises and scenarios are

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included to enhance classroom instruction and skill development. After completion, the student is eligible to continue with Firefighter I certification. (Limited access; requires permission of fire science coordinator.)

#FFP1301, Fire Stream Hydraulics
3 hrs., 3 crs.
A study of pertinent properties of water, distribution of pressures in dynamic and static systems, friction loss in hoses and pipes, and factors which influence it. Approximation methods for quick calculation are given, as well as the most technical computations. Effort is directed toward giving an understanding of how good fire streams are developed.

+#FFP1302, Fire Apparatus Operation
3 hrs., 3 crs.
Prerequisite: FFP1301 or approval of instructor.
The curriculum covers the laws, rules, and driving techniques for emergency vehicles, as well as a review of fire service hydraulics. Fire ground evolutions and a driving course make up the practical part of the course. The evolution portion of the course includes the use of pre-connected lines, tandem pumping, drafting, relays, and master streams. The student should have a basic understanding of fire stream hydraulics prior to entering this course. Students must bring gloves and proper attire for water pumping exercises.

+#FFP1505, Fire Prevention Practices
3 hrs., 3 crs.
Prerequisite: Basic fire science knowledge.
Principles of prevention and investigation; fire hazards of various occupancies; fire codes; OSHA requirements for fire protection; surveying and mapping procedures; recognition of fire hazards; engineering a solution of the hazards; enforcement of the solution; public relations as affected by fire prevention and presentation of arson evidence.

#FFP1510, Building and Fire Codes
3 hrs., 3 crs.
Comparison of national, state, and local building and fire codes emphasizing local laws and ordinances pertaining to building construction and design.

#FFP1540, Fire Protection Systems and Devices
3 hrs., 3 crs.
A study of fixed and portable systems for detecting, reporting, and extinguishing fires. Comparison is made between the value of detection and the value of automatic extinguishing systems. Study is made of the factors which influence the choice of one of several systems for a given occupancy and the value of each type system. Restoration after use and routine maintenance are stressed.

#FFP1610, Fire Cause and Arson Detection
3 hrs., 3 crs.
Investigation of fires for determination of the source of ignition and first fuel, point of origin, direction and rate of spread, and whether the cause was accidental or illegal. Florida arson laws are studied along with procedures for ensuring the admissibility of any evidence found at the scene of the fires, including methods of questioning the witnesses, interviewing, interrogation, and case preparation with stress on recognition of cause and evidence.

#FFP1702, Fundamentals of Fire and Emergency Services
3 hrs., 3 crs.
This course introduces the student to the firefighting profession and reinforces the need for continuous learning for career firefighters. Classroom instruction includes a variety of fire related topics about the firefighting profession. Practical exercises and scenarios are included to enhance classroom instruction and to utilize real world examples.

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+#FFP1741, Fire Service Course Design

3 hrs., 3 crs.

Prerequisites: Certified fire fighter and basic fire science knowledge.

Emphasizes techniques that help a fire service instructor develop skills in curriculum development.

+#FFP2111, Fire Chemistry

3 hrs., 3 crs.

Prerequisite: Basic fire science or law enforcement knowledge.

This course is designed to show the arson investigator the different forms of matter and energy, common substances, and how they relate to fires. The chemical formulas of flammable and combustible substances, their bondings and separations, as well as the different chemical reactions related to fire and oxidation are covered. Particular emphasis is placed on the specific substance used by arsonists to ignite and accelerate burnings. NOTE: Part of HazMat Tech, Fire Investigator I, Fire Inspector II, and Fire Officer II.

+#FFP2120, Building Construction for the Fire Service

3 hrs., 3 crs.

Prerequisite: Work experience as paid or volunteer firefighter.

The study of problems of building fires; structural fire elements; fire resistance; surface finishes; fire spread by windows, air conditioning, building elements, and nonstructural elements.

#FFP2521, Blueprint Reading and Plans Examination

3 hrs., 3 crs.

Preparation course of study for exam in blueprint reading and plans.

#FFP2700, Fire Department Administration, Management, and Supervision

3 hrs., 3 crs.

Administrative, managerial, and supervisory principles that apply to the fire science. Intended for those seeking to participate in upper-level organizational activity such as budgeting, cost controls, goal-setting, manpower acquisition and distribution, and for those seeking to supervise fire company personnel with emphasis on leadership traits, training, planning, and company officer responsibilities.

#FFP2706, Public Information Officer

3 hrs., 3 crs.

A study of what public relations is and how a fire department can utilize positive public relations to benefit the organization and the public. This course describes the functions of a public relations officer along with the responsibilities the position holds.

#FFP2720, Company Officer

3 hrs., 3 crs.

Broad concepts of supervision and leadership; analysis of the kinds of effective leadership needed in the fire sciences; supervising in high stress conditions; use of case studies and individual goal-setting.

#FFP2740, Fire Science Instructor Techniques

3 hrs., 3 crs.

Principles, procedures, and techniques of teaching with emphasis on methods of instruction, developing training outlines, use of visual aids, and testing procedures of fire science instructors.

+#FFP2770, Ethical and Legal Issues for the Fire Service

3 hrs., 3 crs.

Prerequisite: Basic fire science knowledge.

A study of the entire spectrum of issues facing today's fire service leaders. Topics include: labor relations, human rights and diversity; conflicts of interest and frameworks for ethical decision making.

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+#FFP2793, Fire & Life Safety Educator I

3 hrs., 3 crs.

Prerequisite: Basic fire science knowledge

A study of the skills and knowledge needed to successfully perform as a Fire and Life Safety Educator as addressed in NFPA 1035. Topics include fire behavior, community assessment, injury prevention, and juvenile fire setting.

#FFP2810, Firefighting Strategy & Tactics I

3 hrs., 3 crs.

A study of multiple company operations, logistics, strategy, use of mutual aid forces, and conflagration control. Intended for high-ranking officers who may be in command of major fires and other emergencies involving close coordination and maximum use of large amounts of manpower and equipment. Typical tactical situations and case histories will be given.

+#FFP2811, Firefighting Tactics and Strategy II

3 hrs., 3 crs.

Prerequisites: Certified fire fighter, basic fire science knowledge, and FFP1810 or FFP2810.

A study of action plans, command and control, safety, building dynamics, sprinkler operations, fire company operations, and various types of fires. An advanced study intended for higher ranking officers using state or locally provided scenarios.

<center>**FIN - FINANCE**</center>

FIN1100, Personal Finance

3 hrs., 3 crs.

An introductory course in personal finance. This course will include a study of personal financial planning, sources of credit, home ownership, investment strategies, and personal insurance options.

+FIN3400, Financial Management

3 hrs., 3 crs.

Corequisite: MAN3303 or permission of department chair.

This course explores methods of deriving information from financial statements, including both published documents and privately prepared reports that would be of interest to lenders and investors. Extensive use is made of computer assisted financial planning and forecasting models.

+FIN4470, Entrepreneurial Finance

3 hrs., 3 crs.

Prerequisites: ENT2000, ENT2411, FIN3400.

Corequisites: CGS1570, MAN3303.

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.

<center>**FOREIGN LANGUAGES**</center>

<center>See Spanish, French</center>

To enter a state university, students must meet foreign language requirements in one of the following ways:

A.   Two credits (years) of one foreign language or, for some institutions, American sign language in high school
B.   8-10 semester hours credit of one foreign language or, for some institutions, American sign language in college.
C.   Satisfactory score on the CLEP examination.
D.   Satisfactory score on the MAPS Latin examination

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E.   Demonstrated competency by examination in a foreign language other than those examinations identified above or, for some institutions, in American sign language, with the standards and methods for determining competence to be identified by the admitting university.

Students who plan to transfer to a state university but do not meet the foreign language requirements should complete the requirement at the community college. Students who meet one of the two criteria below may be admitted to a state university as an exception to the foreign language admissions requirement but must take 8-10 credits of one foreign language at the university or community college prior to graduation:

A.   Students who earned an Associate in Arts degree before September 1, 1989.
B.   Students who enrolled before August 1, 1989, in a program leading to an associate degree from a Florida community college and maintain continuous enrollment (one course each 12-month period beginning with the students' first enrollment and continuing until enrollment in a university).

FOS – FOOD SCIENCE

#FOS2201, Food Service Sanitation and Safety
2 hrs., 2 crs.
Designed to develop an understanding of the basic principles of sanitation and safety in order to maintain a safe and healthy environment for the consumer in the food industry. Includes the laws and regulations related to safety, fire, and sanitation and adherence to them in the food service operation.

FRE – FRENCH LANGUAGE

FRE1000, Basic French Conversation II
3 hrs., 3 crs.
Introduction to French sound system and conversational emphasis on practical applications in daily personal and business life; culture based. (Does not fulfill any part of the college-transfer sequence and does not provide general education elective credit).

FRE1014, Introduction to French Conversation - A
1 hr., 1 cr.
Introduction to French sound system. Greetings, introductions, leave taking, numbers, and prices, giving personal information, asking questions. (Does not fulfill any part of the college-transfer sequence and does not provide general education elective credit).

FRE1018, Introduction to French Food and Wine
1 hr., 1 cr.
Introduction to French food and wine terms, pronunciation, reading a French menu, influence of French cuisine. (Does not fulfill any part of the college-transfer sequence and does not provide general education elective credit).

FRE1120, First Year French I
4 hrs., 4 crs.
This course aims to develop basic communicative skills in French, including speaking, listening, writing and reading, and to apply those skills to gain knowledge of other cultures. By the end of this course, students will be able to communicate in French about a variety of topics. A minimum grade of "C" in FRE1120 must be attained in order to enroll for FRE1121.

+FRE1121, First-Year French II
4 hrs., 4 crs.
Prerequisite: FRE1120.
This course will continue to develop basic communicative skills in French, including speaking, listening, writing and reading, and to apply those skills to gain knowledge of other cultures. By the end of this course, students will be able to communicate in French about a variety of topics. A minimum grade of "C" in FRE1121 must be attained in order to enroll for FRE2200.

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+FRE2200, Second-Year French I
4 hrs., 4 crs.
Prerequisites: ENC1101 and FRE1121 or equivalent. (Meets Area II Humanities requirement.)
This course aims to develop intermediate communicative skills in French, including speaking, listening, writing and reading. Readings and audiovisual materials dealing with Francophone culture and civiliztion favor grammar review and expansion, as well as oral practice. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+FRE2201, Second-Year French II
3 hrs., 3 crs.
Prerequisites: FRE2200 or equivalent or consent of instructor. (Meets Area II Humanities requirement.)
This course is a continuation of FRE2200 with emphasis on conversation with authentic cultural materials. Authentic listening, reading, and audiovisual materials based on everyday culture and civilization of people from France and Francophone countries, basic grammar review, intermediate-level grammar, and development of listening, reading, writing, and speaking skills in the intermediate level.

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FSS – FOOD SERVICE SYSTEMS

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#FSS1002, Introduction to Hospitality
3 hrs., 3 crs.
History of various cuisines and contributions of leading culinarians as well as a background of the food service industry. Study of various types of food service establishments and organizational structures within each type. Future trends of the food service industry.

+#FSS1063C, Food Specialties: Baking
7 hrs., 3 crs.
$36.00 lab fee
Prerequisite: Math placement test or minimum grade of "C" in MAT0012 or MAT0055 or MAT0056.
Corequisite: FOS2201.
Fundamentals of baking which involve preparation of yeast rolls, breads, pies, cakes, cookies, tarts, doughnuts, holiday specialties, and tortes. Proper use and care for equipment, sanitation and hygienic work habits, and conformation with health laws.

#FSS1105, Food Purchasing
2 hrs., 3 crs.
Principles of menu planning for various types of facilities and service as well as menu layout, selection and development, and pricing structures. Principles and practices concerned with the purchase and receipt of food, supplies, and equipment for various food service operations.

+#FSS1202C, Basic Food Preparation
8 hrs., 4 crs.
$56.00 lab fee
Corequisite: HUN 1001, FOS2201.
Familiarization with tools, equipment, and organization of classical kitchen. Study of basic food recipes, ingredients, cooking theories, terminology, technology, formulas, and procedures. Student learns basic meat fabrication through lecture and hands-on experience/demonstration.

+#FSS1248L, Food Specialties: Garde Manger I
4 hrs., 3 crs.
$40.00 lab fee
Prerequisites: FSS1202C, FOS2201, FSS1063C, test into ENC1101.

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Stresses basic garde manger principles as well as a thorough understanding of the functions and duties of the department as it relates and integrates into other kitchen operations. Specific focus on specialty work, including ice carving, buffet decorations, artistic centerpieces, and understanding of equipment and area planning.

+#FSS1942, Culinary Externship
1 hr., 1 cr.
Prerequisites: FSS1202C, FOS2201, FSS1063C, FSS1002.
Coordinated work-study reinforcing the educational and professional growth of the student through parallel involvement in classroom studies and field experience.

+#FSS2065L, Food Specialties: Pastry Specialization
4 hrs., 3 crs.
$20.00 lab fee
Prerequisites: Math placement test or minimum grade of "C" in MAT0012 or MAT0055 or MAT0056 and, FSS1063C.
Students will work in a controlled environment and specialize in advanced procedures of pastry baking and dessert preparation and presentation. Emphasis is placed on decorative work and display pieces. An understanding of pastry decoration, sugar cooking, Pastillage, chocolate, and bread decoration is provided.

+#FSS2224L, Advanced Food Preparation
8 hrs., 3 crs.
$40.00 lab fee
Prerequisites: HUN1001, FSS1202C, FSS1063C, FOS2201 or FSS2240L, FSS1248L.
Corequisite: HFT2840C.
Meal and service planning, including preparation of a complete menu for a service dining room to include appetizers, soup, salad, entree, vegetables, dessert, and cheese and fruit. Production coordinated with dining room staff. Students will rotate and work the classical brigade stations in the kitchen.

+#FSS2240L, Food Specialties: Cuisines of the World
7 hrs., 3 crs.
$40.00 lab fee
Prerequisites: FSS1202C, FSS1063C, FOS2201.
Corequisite: HFT2264C.
Study and preparation of popular international cuisines. History studied along with actual preparation of many international recipes. Includes buffet and banquet kitchen procedures.

+#FSS2380, Culinary Management
Practicum I – Restaurant
6 hrs., 3 crs.
$40.00 lab fee
Prerequisites: HUN1001, FSS1202C, FOS2201, FSS1063C.
Corequisite: FSS2381.
Through extensive hands-on experience, students will acquire the skills necessary to plan and prepare various meals utilizing cost control methods.

+#FSS2381, Culinary Management Practicum II - Kitchen
7.5 hrs., 3 crs.
$40.00 lab fee
Prerequisites: HUN1001, FSS1202C, FOS2201, FSS1063C.
Corequisite: FSS2380.
Through extensive hands-on experience, students will acquire the skills necessary to plan and prepare various meals utilizing cost control methods.

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+#FSS2382L, Practical Exam
55 hrs., 1 cr.
Prerequisites: FOS2201, FSS1202C, , FSS1063C, FSS2380, FSS2381, FSS2065L, FSS1248L, FSS2240L, FSS2224L.
Knowledge required for a career in Culinary Management is tested via examination on basic principles and theories. Knowledge is provided to enhance artistic and creative abilities. Testing through Mystery Basket, Baking, Cold Food Salon, Appetizers, and written exam.

GEA – GEOGRAPHY: REGIONAL AREAS

GEA2270, Florida Geography
3 hrs., 3 crs.
This course provides a survey of Florida's climate, soils and vegetation, landforms, agriculture, manufacturing, tourism, service activities, urban and rural problems, and the impact of population and economic geography of the state.

GEB – GENERAL BUSINESS

GEB1011, Introduction to Business
3 hrs., 3 crs.
An introductory course providing an opportunity to survey the fields of business covering topics such as the nature of business, types of business organization and ownership, physical aspects, business procedures, interrelationships between phases of business.

GEB2930, Special Topics in Business
1 hr., 1 cr.
Course centering around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. (May be repeated up to three times for credit.) (Transfer of credit is the prerogative of the receiving institution.)

GEO – GEOGRAPHY: SYSTEMATIC

GEO1000, Principles of Geography
3 hrs., 3 crs.
This course examines the connection between human activities and earth processes and how these interact to create the patterns we observe on the earth's surface. Natural landscapes and conservation, cultural regions and population, urban geography, global economics and resource use, and political geography are also explored.

GLY – GEOLOGY

GLY1010, Physical Geology
3 hrs., 3 crs.
Physical properties, identification, and origin of minerals. Classification of rocks, physical processes that shape the earth; graduation, deposition, vulcanism, glaciation, weathering, rock deformation, mountain building and metamorphism. Geologic maps.

GLY1032, Natural Disasters
3 hrs., 3 crs.
Introductory geological investigation of catastrophic events such as earthquakes, volcanoes, tsunamis, floods, hurricanes, and severe weather. Emphasis on scientific terminology and processes, hazard monitoring, prediction, and mitigation.

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GRA – GRAPHIC ARTS

GRA1100C, Principles of Graphic Design
6 hrs., 3crs.
$28.00 lab fee
Students attending this course will be exposed to a hands-on introduction to the principles and techniques of graphic design for print and digital media covering print and digital production; resolution and size considerations; vector vs. raster formats; color theory and layout principles; typography; file formats, output, and management. Upon completion, students should be able to creatively produce graphic designs.

GRA2121, Introduction to Desktop Publishing
3 hrs., 3crs.
$10.00 lab fee
Students in this course will focus on the skills and practice related to desktop publishing processes and procedures. Experiences will include an exposure to the uses of Adobe InDesign (or an equivalent desktop publishing software application) for document layout and design. Students will have the opportunity to learn how to integrate text, graphics, and photographs to create a variety of professional quality finished documents for practical and business use.

GRA2151, Drawing Techniques for Digital Illustration
3 hrs., 3crs.
$10.00 lab fee
This course provides students with experiences in illustration and digital art techniques and the application of vector graphics in the field of graphic design. The content includes, but is not be limited to: identification and investigation of Adobe Illustrator and/or Corel Draw consisting of lines and curves defined by mathematical objects called vectors. Identification and application of general methods for critical, aesthetic, and technical judgments relating to the uses of computer-generated illustrations for print, web, and multimedia designs. Also included is the history of graphic design and the application of computers to the graphic world.

GRA2156, Computer Graphics for Digital Designers I
3 hrs., 3crs.
$10.00 lab fee
Participants in this course will have an opportunity to explore the basic functions of Adobe Photoshop to create dynamic digital art in the field of Graphic Design. The course begins with the identification and investigation of the Principles and Elements of Design, moves to exploration of the role Photoshop and photo-editing plays in the graphic industry, and concludes with student design and completion of a comprehensive project.

+GRA2157, Computer Graphics for Digital Designers II
3 hrs., 3crs.
$10.00 lab fee
Prerequisite: GRA2156.
Participants in this course will have an opportunity to explore the advanced functions of Adobe Photoshop to create dynamic digital art in the field of Graphic Design.

HCP – HEALTH-CARE PROVIDERS (ASSISTANTS)

=HCP0001, Health Careers Core
90 contact, 3 vocational crs.
$21.00 lab fee
An introduction to health care delivery system. Basic safety measures, communication, techniques, and employability skills, CPR and AIDS are covered. This course is one of two courses that meet the requirement for the Certified Nursing Assistance certificate. The core lecture classes are offered as hybrid (distance education).

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+=HCP0120C, Basic Nursing Care
75 contact, 2.5 vocational crs.
$9.00 lab fee
Prerequisite: HCP0001.
Contents include classroom and laboratory experiences relating to communication, nursing procedures, and organized patient care, including restorative with emphasis on the geriatrics. This course is one of two courses that meet the requirement for the Certified Nursing Assistance certificate. The core lecture classes are offered as hybrid (distance education).

HFT – HOSPITALITY MANAGEMENT

HFT1000, Introduction to Hotel-Restaurant Management
3 hrs., 3 crs.
An introduction to the hotel-motel-restaurant business, departments, industry's responsibilities, business ethics, and opportunities for creative employment.

HFT1011, Culinary and Travel Elements for Business
3 hrs., 3 crs.
Introduction to travel, world cuisines and beverages, business etiquette, and dining etiquette.

#HFT1210, Hospitality Management
3 hrs., 3 crs.
Focuses on managing people from the supervisor's standpoint. Includes techniques for increasing productivity and controlling labor costs, time management, and managing change. Stresses effective communication and the responsibilities of a supervisor in a lodging or food service operation.

#HFT1254, Lodging Operations
3 hrs., 3 crs.
This course introduces students to guest service operations and is designed for students interested in managing hotels, motels, resorts, and other related lodging businesses. The course provides students with practical knowledge of the concepts and procedures used in managing commercial lodging operations. Students are introduced to the rooming and guest service functions. The course includes the theories and principles of guest service management used in the lodging industry. The course gives students the opportunity to develop human relations and customer service skills. Operation of the various functions of the rooming department of a lodging operation are covered.

#HFT1300, Managing Housekeeping Operations
3 hrs., 3 crs.
Systemic approach to managing housekeeping operations in hospitality industry. Emphasis on role of housekeeping department and understanding managerial skills necessary to efficiently operate department.

#HFT1860, Beverage Management
3 hrs., 3 crs.
A study of the three categories of alcoholic beverages: wine, beer, and spirits. Provides a strong foundation in beverage purchasing, receiving, storing, control, and sales needed by the professional beverage manager.

+#HFT2264C, Banquet and Convention Management
6 hrs., 3 crs.
Prerequisites: FOS2201, FSS1202C.
Corequisite: FSS2240L.
Introduction to the complete set of skills necessary to adequately perform as a hotel banquet manager and convention planner. Actual functions will be used to reinforce the general rules of table service as they apply to buffets and banquets.

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#HFT2451, Cost Control and Purchasing
3 hrs., 3 crs.
This course is an overview of the management system with an in-depth study in the control component of the management cycle. It will focus on the principles and procedures involved in an effective system of food, beverage, labor, and sales income control, as well as emphasize the development and use of standards and the calculation of actual costs.

+#HFT2750, Convention Service and Management
3 hrs., 3 crs.
Prerequisite: HFT1000.
Introduces students to the complete set of skills necessary to adequately perform as a hotel banquet manager and convention planner. Actual events will be used to reinforce the general rules of table service, booking functions, staffing banquets/conventions, and responsibilities of a host venue as they apply to buffets and banquets. Prepares students in trade show administration, meeting management and legal issues associated with banquets and conventions.

+#HFT2840C, Dining Room Operations
8 hrs., 3 crs.
Prerequisites: FOS2201, FSS1202C. Corequisite: FSS2224L.
Types of dining room and beverage service techniques found in the hospitality industry.

HIM – HEALTH INFORMATION MANAGEMENT

#HIM1000, Introduction to Health Information Management
3 hrs., 3 crs.
Introduction to healthcare documentation, including the voluntary and regulatory standards related to the healthcare record and medical transcription and the study and application of medicolegal concepts and ethics in the medical transcription profession.

+#HIM1475, Medical Style and Grammar
2 hrs,. 2 crs.
Corequisite: HSC1531.
The study, synthesis, and application of the rules of English language and medical transcription style as reflected by the AHDI book of style.

+#HIM2430, Concepts of Disease
3 hrs., 3 crs.
Prerequisites: HSC1531, BSC1020.
A survey of the fundamental nature of disease and its treatment, studying common human diseases and conditions including etiology, signs and symptoms, diagnostic treatment modalities, prognoses, and prevention.

+#HIM2442, Pharmacology and Laboratory Medicine
3 hrs., 3 crs.
Prerequisites: HSC1531, BSC1020.
A study of the principles and language of pharmacology and laboratory medicine, including drugs and drug classes, diagnostic tests, indications, techniques, expressions of values, and significance of findings.

+#HIM2652, Medical Transcription Technology
2 hrs., 2 crs.
Prerequisite: OST1102.
This coursework is designed to introduce students to computers, word processing applications, dictation and transcription equipment and related technologies, and to develop computer skills and proficiency. It is designed to study, synthesize, and apply technologies used in healthcare documentation, as well as to stimulate an awareness of related emerging technologies.

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HLP – HEALTH/LEISURE/PHYSICAL EDUCATION

HLP1081, Wellness
3 hrs., 2 crs.
This course is designed and organized so that students of all ages, interests, physical conditions, and activity levels will become more knowledgeable of appropriate wellness and lifestyle choices. Topics covered will include but not be limited to wellness, health, flexibility and strength, cardiovascular endurance, nutrition, weight rol, stress, drug and alcohol use, and related issues. There will be a lifetime recreation or lifetime fitness activity component as a part of each class. This course will count as an academic elective.

HSA – HEALTH SERVICES ADMINISTRATION

+#HSA2182, Management for Health Care Providers
2 hrs., 2 crs.
Prerequisite: Currently enrolled in a Health Sciences Program or a licensed healthcare provider.
Directed towards assisting health careers students to understand the responsibilities of a leader/manager in health and how best to meet these responsibilities. Addresses principles of leadership and management, management theory, health care management, employee and time management, conflict resolution, computerization of health care, and legal concerns in management.

HSA3113, Current Trends/Contemporary Issues in Healthcare
3 hrs., 3 crs.
The presentation of significant health care issues and their developing trends. Content may differ each time in order to be current with changing events of varying importance, such as aging, coping with dying, women's and minorities' roles in health, and patient privacy issues.

HSA3553, Legal and Ethical Issues in Healthcare
3 hrs., 3 crs.
The principles and rules of law and how they relate to health care organizations and the ethical issues of consumers and providers of health care. The course also focuses on ethics and its principles and application in service settings. Contemporary issues confronting those delivering and using health care will be examined.

HSA3700, Foundations of Research in Healthcare
3 hrs., 3 crs.
An introduction to research methods as applied to the healthcare field. In addition to the study of research methods and tools, students complete exercises in literature search, research report analysis covering research design and data analysis, and report writing.

HSA4110, Healthcare Organization and Management
3 hrs., 3 crs.
This course will examine the conceptual framework of healthcare management with an emphasis on the process, functions, and roles that contribute to successful management. Facilities studied will include hospitals, ambulatory facilities, HMOs, and long-term care facilities.

HSA4160, Strategic Planning and Marketing for Healthcare
3 hrs., 3 crs.
An introduction to the basic concepts of planning and evaluation as the fundamental tools of program design and development. Opportunities for theoretical and practical applications in the use of basic techniques are developed through classroom exercises and class projects.

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+HSA4850, Internship/Capstone
90 hrs., 3 crs.
Prerequisite: Completion of all prior Health Services Administration required courses and upper division required courses for the bachelor's degree.
Designed to give the student direct experience in various healthcare settings. The experiential component allows the student an opportunity to apply newly acquired normative and cognitive skills in an actual working situation. The areas from which students may choose are: hospitals, federal government, long-term care facilities, community health care centers, public health agencies, group practices, medical programs, volunteer agencies, mental health facilities, and others. This experience occurs within the didactic phase.

HSC – HEALTH SCIENCES

+=HSC0530, Medical Terminology
15 contact hrs., .5 vocational crs.
Prerequisite: PRN0022.
A study of medical terminology, including prefixes, suffixes, and word roots with emphasis on spelling, pronunciation, definition, and usage.

+#*HSC1000, Orientation to Perioperative Services
45 hrs., 3 crs.
Corequisite: HSC1000L.
The purpose of this course is to introduce the student to the health care delivery system and provide an overview of the role and responsibility of members of the health care team including infection control, legal/ethical issues, All-Hazards Preparation for Disasters, communication, interpersonal skills, and the personal characteristics of the successful health care professional. Common illnesses will be discussed with a focus on prevention of disease and promotion of wellness. Systems of measurement, interpersonal skills, legal/ethical issues, basic medical terminology, infection control, and the personal characteristics of the successful health care professional are also included. Also included are the basic concepts of information technology, patient care skills including patient identification, patient assessment, the biopsychosocial needs of the patient, special needs patients, monitoring the patient's status, death and dying, and emergency patient situations which are common to all health occupations.

+#HSC1000L, Orientation to Perioperative Services Lab
30 hrs., 1 cr.
$55.00 lab fee
Corequisite: HSC1000.
Lab and clinical practicum to accompany HSC1000, Orientation to Perioperative Services.

HSC1004, Overview of Health Professions
3 hrs., 3 crs.
This course is designed to assist students in planning and pursuit of their own career goals. Students will be provided with an introduction to the health care industry emphasizing the roles of the various health care professionals and the current trends in healthcare opportunities. The course investigates the wide variety of health care careers, focusing on the nature of the work, job descriptions, necessary abilities, legal and ethical responsibilities, and education preparation and credentialing. An opportunity to interface with health care professionals and explore one or more options in depth will be provided.

HSC1403C, First Aid, Personal Safety, and Basic Life Support Techniques
3 hrs., 3 crs.
$52.00 lab fee
A study of standards and accepted principles of first aid. Discussion and laboratory practice in dressings and bandages, wounds and their care, artificial respiration and cardiopulmonary resuscitation, poisons, fractures, burns, and transportation of the injured. This course will count as an academic elective.

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+HSC1434, Central Processing Technology
90 hrs., 6 crs.
Prerequisite: HSC1000.
Corequisite: HSC1434L.
This course is designed to prepare students for the roles and responsibilities as a central supply worker in the related areas of procurement and the sterile processing department by providing an in depth study of patient care equipment, instrumentation and supplies utilized in the healthcare facility. Course content includes the principles and standards to be applied during the decontamination, cleaning, testing, identification, selection, preparation, disinfection, sterilization, the storage (clean and/or sterile) of those items, and the preparation of case carts. Supply distribution systems, procurement and the principles of inventory control will also be covered. Student is prepared for employment or supervisory positions in (but not limited to) surgical inpatient and outpatient reprocessing areas, gastrointestinal endoscopy reprocessing areas, central sterile processing departments, central supply, stocking clerks, stock rooms, order fillers, warehouse, and sterilization/disinfection/decontamination areas.

+HSC1434L, Central Processing Technology Lab and Clinical
310 hrs., 6 crs.
$50.00 lab fee
Prerequisite: HSC1000L.
Corequisite: HSC1434.
Prepares student for employment in the related areas of central service technology gaining the skills and competencies necessary for employment as central service technicians, central supply workers, supervisors, stock clerks, inventory storage, and sterile processing technicians. Provides experience in processing patient care equipment, instrumentation, and supplies along with observation of surgical procedures and rotations through relevant patient care and supply storage areas. Skills performed include general cleaning, decontamination and disinfection, wrapping and packaging, linen folding, testing and selection of instrumentation and supplies, instrument tray and procedure tray assembly, sterilizer operation, disinfection and sterilizer monitoring, clean and sterile storage, preparation of case carts, processing documentation, and distribution.

#HSC1531, Medical Terminology
2 hrs., 2 crs.
Study of the language of medicine. Includes construction, analysis, spelling, application and pronunciation of medical terms and how they relate to the structure and function of the human body. Explores the use of medical words and abbreviations used in clinical procedures, pathophysiology and case histories.

#HSC1641, Law and Ethics for Health Care
3 hrs., 3 crs.
This course introduces the student to a variety of legal and ethical issues which may apply to health science professionals Included is an introduction to law and ethics, working in a health care profession, law and courts, professional liability, medical records and informed consent, workplace legalities (sexual harassment, disabilities, etc.), bioethics and social issues, and death and dying. Case studies are cited to illustrate points and students will consider the relevance to their particular health care specialty. Students are provided with web sites for additional research into topics of interest within their own discipline.

HSC2100, Personal and Community Health
3 hrs., 3 crs.
This course is designed to improve the quality of health, and to explore crucial health issues. This course encourages a more knowledgeable and proactive stance towards maintaining good health. This course will count as an academic elective.

#*HSC2520, Microbiology for Perioperative Services
45 hrs., 3 crs.
This course covers the characteristics and activities of microorganisms. It surveys the various microbial groups, especially the bacteria, viruses, fungi, with emphasis on pathogenic forms. Bacterial growth, metabolism, and genetics are discussed in some detail. Theories and methods of destruction, removal, and inhibition of microorganisms in the environment are studied, as well as how the human body's natural defenses act to protect us against pathogenic microorganisms, principles of wound healing,

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and how chemotherapeutic agents assist in this task.   Various significant aspects of several infectious diseases that occur in humans are also covered.

HUN – HUMAN NUTRITION

#HUN1001, Survey of Nutrition
2 hrs., 2 crs.
Relates nutrition to the hospitality industry by way of menu planning, studying nutritional deficiencies diseases, retention of nutrients, and the basic principles for today's society.

HUN1201, Principles of Nutrition
3 hrs., 3 crs.
Principles and controversies of nutrition with emphasis on the principal nutrients in foods and their utilization by the body as well as determining and meeting food needs for optimum health at different stages of the life span.

IDD – INDUSTRIAL DESIGN

+#IDD1520C, Development of Form
6 hrs., 3 crs.
$81.00 lab fee
Prerequisites: ART1201C, EGN1110C.
Introduction to the understanding and development of visual and ta ctile forms, emphasizing the transformation of concept sketches into three-dimensional form studies utilizing a variety of materials.

+#IDD2101C, Product Design
6 hrs., 3 crs.
$100.00 lab fee
Prerequisites: IDD1520C, ETD2357C or ETD2364C.
Students investigate the processes of universal product design. They examine how products are developed, incorporating concept, working drawings, and model making. Prototype development, mass production, and marketability are covered.

+#IDD2107C, Advanced Product Design
6 hrs., 3 crs.
$100.00 lab fee
Prerequisite: IDD2101C.
This advanced course utilizes the experience gathered from previous courses while emphasizing an extensive understanding of the product development and teamwork processes. The course culminates with a finished model or prototype.

IDH – INTERDISCIPLINARY HONORS

+IDH1905, Honors Research
2 hrs., 1 cr.
Prerequisite: Completion of one semester of Honors courses.
This course provides an opportunity to carry on a topic of special interest to the individual student. The student will initiate and conduct the research project in consultation with a designated faculty member.

IDH2931, Honors Symposium
1 hr., 1 cr.
Centers around topics of current interest or special interest to students or instructor.

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INR – INTERNATIONAL RELATIONS

INR2002, International Relations
3 hrs., 3 crs.
This course provides an introduction to the nature of international relations, analysis of trends and international movements (nationalism, imperialism, militarism), armaments and developments in international organizations (governmental and nongovernmental). Principles and practices in foreign policy in the world today as well as historically will be examined.

ISM – INFORMATION SYSTEMS MANAGEMENT

+ISM3220, Network Technologies for Information Professionals
3 hrs., 3 crs.
Prerequisites: MAN3303, CTS1134, CTS1156, CTS1120.
Analysis, design, implementation, and management of distributed information systems and networks. Course information will include: introduction to distributed data processing; office organization and information systems; historical development of distributed data processing; characteristics of major network configurations; information/data/user interfaces; analysis, design and implementation of distributed information systems; managing transitions to new office information systems; issues in the network management; and likely future trends in distributed systems. Extensive use is made of computer assisted financial planning and forecasting models.

+ISM4154, Enterprise-wide System Implementation and Administration
3 hrs., 3 crs.
Prerequisite: MAN3303, CTS1134.
This course will expose students to key aspects involved in the implementation and operation of the r/3 system, and will provide the technical and conceptual foundation necessary for developing appropriate strategies and approaches for implementation and maintenance of an enterprise-wide system.

+ISM4212, Database Design and Administration
3 hrs., 3 crs.
Prerequisites: MAN3303, CGS1570, COP1000, COP2700.
This course teaches students the principles of database administration, database organization and models. Disaster planning for database files. Course information will include: introduction to database administration; data structures; storage structures design; evaluation of DBMS tasks and functions in database administration database integrity.

+ISM4302, Emerging Technologies
3 hrs., 3 crs.
Prerequisites: MAN3303, CGS1570, COP1000, COP2700.
Corequisite: or permission of department chair.
This course covers emerging information and communication technologies that are changing the way the business is being operated in global economy. The students will be introduced to: the assessment and risk associated with emerging technologies, how to manage emerging technologies markets and analyze emerging markets case studies.

+ISM4314, Project and Change Management for Technology
3 hrs., 3 crs.
Corequisite: MAN3303 or permission of department chair.
This course introduces students to the use of scheduling, resource-allocation, and capacity planning in the design, development, and implementation of information systems and/or system changes. Covers state of the art models, such as the capability maturity model developed at the software engineering institute.

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+ISM4330, Information Security Policy Administration and Management
3 hrs., 3 crs.
Prerequisite: CTS1120.
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.

ISS – INTERDISCIPLINARY SOCIAL SCIENCES

+ISS1931, Interdisciplinary Social Sciences Special Topics
2 hrs., 1 cr.
Prerequisite: 12 hours completed coursework towards a degree, permission of the instructor, and no less than two letters of recommendation from GCCC faculty.
This course centers on topics of current interest or of speical interest to students or instructors. Topics or focus may vary from semester to semester. (This course does not satisfy the social sciences requirement for the A.A. degree. Transfer of the credit is the prerogative of the receiving institution.)

+ISS2930, Interdisciplinary Social Scienes
2 hrs., 2 crs.
Prerequisite: 12 hours completed coursework towards a degree, permission of the instructor, and no less than two letters of recommendation from GCCC faculty.
This course centers on topics of current interest or of special interest to students or instructors. Topics or foci for the course may vary from semester to semester. (This course does not satisfy the social sciences requirement for the A.A. degree. Transfer of the credit is the prerogative of the receiving institution.) (This course may be repeated up to 3 times for credit.)

JOU - JOURNALISM

JOU2400, Newspaper Production with Desktop Publishing
2 hrs., 2 crs.
Development of skills in desktop publishing: gathering, writing, and evaluating news; copy editing; headline writing; and computer-aided layout using InDesign and PhotoShop. Practical application through production of the college newspaper. (May be taken four times for credit.)

LIN – LINGUISTICS

+LIN1670, English Grammar and Style
3 hrs., 3 crs.
Prerequisite: Satisfactory English score on the Florida College Entry-Level Placement Test or completion of ENC0025 with a minimum grade of "C."
Introduction to sentence structure, standard practices in grammar and punctuation, and effective stylistic techniques. Designed as a complement to composition courses.

LIS – LIBRARY AND INFORMATION STUDIES

LIS2004, Introduction to Internet Research
1 hr., 1 cr.
Focus on methods of accessing information resources available through the Internet. Students will learn to design search strategies, retrieve, evaluate, and cite Internet resources. Delivery systems, such as World Wide Web, e-mail, discussion groups, social networking, and blogs are covered.

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LIT – LITERATURE

+*LIT2000, Introduction to Literature
3 hrs., 3 crs.
Prerequisite: ENC1102 with a minimum grade of "C."
(Meets Literature Humanities requirement.)
Major writers, literary moements, forms, and themes of literature. This course is a Gordon Rule writing course in which studens will produce extensive writing and which requires completion with a minimum grade of "C."

+*LIT2040, World Drama
3 hrs., 3 crs.
Prerequisite: ENC1102 with a minimum grade of "C." (Meets Literature Humanities requirement.)
Major dramatists from ancient through the present. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*LIT2090, Contemporary Literature
3 hrs., 3 crs.
Prerequisite: ENC1102 with a minimum grade of "C." (Meets Literature Humanities requirement.)
Major writers, works, and literary movements in the post-World War II era. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*LIT2110, World Literature: Ancient through Renaissance
3 hrs., 3 crs.
Prerequisite: ENC1102 with a minimum grade of "C." (Meets Literature Humanities requirement.)
Masterpieces, literary movements, forms, and themes of world literature from the Ancient World through the Renaissance. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*LIT2120, World Literature: Enlightenment to Present
3 hrs., 3 crs.
Prerequisite: ENC1102 with a minimum grade of "C." (Meets Literature Humanities requirement.)
Masterpieces, literary trends, forms and themes of world literature from the Enlightenment to the present. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*LIT2380, Women in Literature
3 hrs., 3 crs.
Prerequisite: ENC1102 with a minimum grade of "C." (Meets Literature Humanities requirement.)
Major themes, works, authors of literature by women.   This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+LIT2930, Special Topics in Literature
3 hrs., 3 crs.
Prerequisite: ENC1101 with a minimum grade of "C."
Literature of selected genres, periods, places, and people as recommended by the instructor. Repeatable for credit based on change of topics. (An elective course that does not satisfy Area III Humanities requirement.)

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MAC – MATHEMATICS – CALCULUS AND PRECALCULUS

College-Level Mathematics
Math Courses

The Associate in Arts degree requires that six credit hours of the following mathematics courses be completed with a minimum grade of "C." It is required that all prerequisite mathematics courses be completed with a minimum grade of "C" or that students earn a passing score on the Florida College Entry-Level Placement Test.

+MAC1105, College Algebra
3 hrs., 3 crs.
Prerequisite: Math placement test or minimum grade of "C" in MAT1033. A graphing calculator is required. The TI-83/84 are the only allowable calculators for test days. If a student wishes to use any other calculator they must see their instructor in advance for approval. Topics included are functions and functional notation, domains and ranges of functions, graphs of functions and relations, operations on functions. Several types of functions and their applications are studied such as quadratic functions, rational functions, absolute value functions, exponential and logarithmic functions. Systems of equations and systems of inequalities are presented.

+MAC1114, Plane Trigonometry
3 hrs., 3 crs.
Prerequisite: Math placement test or minimum grade of "C" in MAC1105. A graphing calculator is required. The TI-83/84 are the only allowable calculators for test days. If a student wishes to use any other calculator they must see their instructor in advance for approval. Topics included are properties and graphs of trigonometric functions, properties and graphs of inverse trigonometric functions, trigonometric identities, conditional trigonometric equations, solutions of triangles, vector algebra, parametric equations, polar coordinates, and applications.

+MAC1140, Precalculus Algebra
3 hrs., 3 crs.
Prerequisite: Math placement test or minimum grade of "C" in MAC1105. A graphing calculator is required. The TI-83/84 are the only allowable calculators for test days. If a student wishes to use any other calculator they must see their instructor in advance for approval. Topics included are properties and graphs of polynomial and rational functions, polynomial and rational inequalities, properties and graphs of exponential and logarithmic functions, piecewise defined functions, conic sections, matrices and determinants, sequences and series, mathematical induction, binomial theorem, and applications.

+MAC1930, Special Topics in Mathematics
1 hr., 1 cr.
Prerequisite: Math placement test or minimum grade of "C" in MAT1033.
This course focuses on certain topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester. This course does not satisfy the mathematics requirement for the A.A. degree. Transfer credit is the prerogative of the receiving institution.

+MAC2233, Calculus for Business and Social Science I
3 hrs., 3 crs.
Prerequisite: Minimum grade of "C" in MAC1105. A graphing calculator is required. The TI-83/84 are the only allowable calculators for test days. If a student wishes to use any other calculator they must see their instructor in advance for approval. Topics included are a review of algebraic preliminaries, rates of change and optimization methods, integration, and applications to business and social sciences.

+MAC2311, Calculus with Analytic Geometry I
4 hrs., 4 crs.
Prerequisite: Math placement test or minimum grade of "C" in MAC1140 and MAC1114. A graphing calculator is required. The TI-83/84 are the only allowable calculators for test days. If a student wishes to use any other calculator they must see their

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instructor in advance for approval.   Topics included are families of functions, parametric equations; limits and inuity; differentiation of logarithmic; exponential, trigonometric, and rational functions; related rates; Simpson's rule; hyperbolic functions, analysis of functions and their graphs; applications of the derivative; Newton's method; Rolle's Theorem; Mean-Value Theorem; and integration.

+MAC2312, Calculus with Analytic Geometry II
4 hrs., 4 crs.
Prerequisite: Minimum grade of "C" in MAC2311. A graphing calculator is required. The TI-83/84 are the only allowable calculators for test days. If a student wishes to use any other calculator they must see their instructor in advance for approval. Topics included are applications of integrals, principles of integral evaluation, L'Hospital's rule, parametric equations, improper integrals, mathematical modeling with differential equations, infinite series, and topics in analytical geometry.

+MAC2313, Calculus with Analytic Geometry III
4 hrs., 4 crs.
Prerequisite: Minimum grade of "C" in MAC2312. A graphing calculator is required. The TI-83/84 are the only allowable calculators for test days. If a student wishes to use any other calculator they must see their instructor in advance for approval. Topics included are three dimensional space, vectors, vector-valued functions, partial derivatives, and multiple integrals.

MAD – DISCRETE MATHEMATICS

+MAD2104, Discrete Mathematics
3 hrs., 3 crs.
Prerequisite: Satisfactory score on math placement test or minimum grade of "C" in MAC1140.
Topics included in this course are sets, functions and relations, combinatorics, propositional logic, graphs and trees, and applications. The course is designed so that the student can prove results applicable to the topics in computer science and software engineering.

MAN – MANAGEMENT

MAN2021, Principles of Management
3 hrs., 3 crs.
Fundamentals of management underlying the solutions of problems of organization and operation of business enterprises covering the management process of planning, organizing, directing, and rolling.

MAN2043, Principles of Quality Management
3 hrs., 3 crs.
This course is an introduction to the principles, techniques, and basic tools of quality and business process improvement used by organizations.

MAN2500, Operations Management
3 hrs., 3 crs.
This course introduces students to operations management techniques including their application to functional areas of the business enterprise and operations control.

MAN3240, Applied Organizational Behavior
3 hrs., 3 crs.
Behavioral concepts, techniques, and applications for managing human resources in all types of organizations.

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+MAN3303, Principles of Management and Leadership
3 hrs., 3 crs.
Prerequisite: Admission into Technology Management BAS Program or permission of department chair.
This course presents the basic concepts, principles, and techniques of business leadership. Emphasis will be on the student developing a solid leadership foundation while centering them in the real themes, demands, and opportunities of an evolving and dynamic business workplace. This course will incorporate basic leadership skill development as it relates to the core aspects of the management practice.

+MAN3503, Managerial Risk Analysis and
Decision Making
3 hrs., 3 crs.
Prerequisite: FIN3400, CIS2321, CGS1103.
This course covers 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 develop and apply decision making and risk analysis to solve problems in different operating environments.

+MAN4520, Quality Management (Six Sigma)
3 hrs., 3 crs.
Corequisite: MAN3303 or permission of department chair.

This course teaches students the significance of quality as a primary competitive strategy for tomorrow's successful business organizations using six sigma methodologies. The impact of quality focus on increasing customer satisfaction is changing the manner in which business organizations function. Students will recognize that quality focused business organizations are evolving into very different environments in which to work and manage. This quality imperative is relevant for both industrial and service sector organizations. Students will be exposed to the critical issues of total quality management through reading, case studies, class discussion, and outside speakers. The students are expected to gain insight and understanding regarding the meaning of quality, how organizations develop a quality focus, and the continuous nature of quality management.

+MAN4900, Capstone Project
3 hrs., 3 crs.
Prerequisite: Permission of instructor.
This capstone course will provide the opportunity for students to demonstrate their mastery of the material learned 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 an opportunity to develop a plan to solve a problem dealing with technology management and organizational leadership issues of today.

MAP – MATHEMATICS APPLIED

+MAP2302, Differential Equations
3 hrs., 3 crs.
Prerequisite or Corequisite: MAC2313 or consent of instructor. A graphing calculator is required. The TI-83/84 are the only allowable calculators for test days. If a student wishes to use any other calculator they must see their instructor in advance for approval. Differential Equations is a study of the classification, solution, and application of ordinary differential equations. Solutions to differential equations are obtained by both the classical and Laplace Transform methods.

MAR – MARKETING

MAR2011, Marketing
3 hrs., 3 crs.
Functions and institutions involved in the marketing process; marketing of agricultural products, raw materials, and manufacturing goods; problems involved in the choice of channels of distribution; function and methods of operation of

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wholesalers, retailers, and other marketing agencies; producer and consumer cooperation; demand creation methods and problems; the pricing problem; and the consumer in our marketing system.

+MAR3802, Marketing Management
3 hrs., 3 crs.
Prerequisites: ENT2000, MAR2011.
Corequisites: CGS1570, MAN3303.
This course helps develop the marketing knowledge and skills necessary for the successful management of an organization. You will research and disucss marketing concepts including the development and execution of marketing strategies. The course focuses on formulating a marketing strategy for a variety of enterprises including business-to-business, business-to-government, and public service organizations.

+MAR4413, Sales, Negotiating and Customer Relationship Management
3 hrs., 3 crs.
Prerequisites: ENT2000, MAR2011.
Corequisites: CGS1570, MAN3303.
This course focuses on addressing the issues, processes and strategies related to professional selling and sales management. This is a comprehensive course in the art of selling, focusing on relationship building, negotiating, and sales management. Various techniques will be explored, including prospecting, lead management, product introduction, negotiation, closing strategies and relationship management.

+MAR4836, Concept and Product Development
3 hrs., 3 crs.
Prerequisites: ENT2000, MAR2011.
Corequisites: CGS1570, MAN3303.
This course introduces the fundamental processes, reseach, and testing methods, planning aspects and integrated promotional programs marketers use in designing and launching innovations, including e-business and marketing plans.

MAS – MATHEMATICS: ALGEBRAIC STRUCTURES

+MAS2103, Linear Algebra
3 hrs., 3 crs.
Prerequisite: Minimum grade of "C" in MAC1140.
Linear Algebra is an introductory course which includes vectors, matrices, determinants, vector spaces, transformations, geometric, and other applications.

MAT – MATHEMATICS
College Preparatory Mathematics

The following developmental courses are not intended to satisfy any part of the college-level mathematics requirements and do not count as part of the required hours for graduation. A minimum grade of "C" or a passing score on the Florida College Entry-Level Placement Test is required to progress to the next course.

+*MAT0012, Developmental Arithmetic with Algebra
3 hrs., 3 crs.
Developmental Arithemetic with Algebra (3.0 Credit) is a course designed for students who need to strengthen their mathematical background. The course must be passed with a minimum grade of "C" and is not intended to satisfy general education requirements in mathematics or to count toward required hours for graduation. Calculators are allowed in the course.

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Topics included opertaions with integers, fractions, decimals, geometric figures and their measures, pre-algebra topics, including proberties of rational numbers, operations of frational numbers, simplicification of polynomials, and equations–solving techniques.

+MAT0018, Beginning Algebra
3 hrs., 3 crs.

Beginning Algebra is a course designed for students who need to strengthen their mathematical background. The course must be passed with a minimum grade of "C" and is not intended to satisfy general education requirements in mathematics or to count toward required hours for graduation.   Calculator use is restricted in class.

Topics included are basic operations of fractions, mixed numerals, decimals, integers, percent notation and applications, properties of numbers, writing expressions, solving equations, graphing inequalities, exponential notation, order of operations, perimeter, areas, ratio, proportions, and converting units of measurement.

+*MAT0028, Elementary Algebra
4 hrs., 4 crs.

Prerequisite: Math placement test or minimum grade of "C" in MAT0018. Elementary Algebra is designed for students with no algebraic background. The course must be passed with a minimum grade of "C" and is not intended to satisfy general education requirements in mathematics or to count toward required hours for graduation. Topics included are order of operations, operations with signed numbers, linear equations and inequalities, problem solving with one variable, convert units of measurement across measurement systems, graphing linear equations in two variables, slope of a line, exponents, polynomials, factoring rational expressions, and radicals (square roots).

+MAT0055, Developmental Mathematics Module (1)
1 hr., 1 cr.

Prerequisite: Math placement test only.

Developmental mathematics module (1.0 credit) is a course designed for students who need to strengthen their mathematical background. The course must be passed with a minimum grade of "C" and is not intended to satisfy general education requirements in mathematics or to count toward required hours for graduation. Calculators are allowed in the course. Topics included are applying order of operations, constructing expressions, decimal operations, evaluating exponents, fraction operations, integer operation, number conversions, simplifying algebraic expressions, simplifying fractions, solving linear equations and whole number operations. Students enrolled in this class must only have a deficiency in only one or two of the topics listed.

+MAT0056, Developmental Mathematics Module (2)
2 hrs., 2 crs.

Prerequisite: Math placement test only.

Developmental mathematics module (2 credits) is a course designed for students who need to strengthen their mathematical background. The course must be passed with a minimum grade of "C" and is not intended to satisfy general education requirements in mathematics or to count toward required hours for graduation. Calculators are allowed in the course. Topics included are applying order of operations, constructing expressions, decimal operations, devaluating exponents, fraction operations, integer operation, number conversions, simplifying algebraic expressions, simplifying fractions, solving linear equations and whole number operations. Students enrolled in this class must only have a deficiency in three, four or five of the topics listed. If the student has more than five deficiencies, the student must take MAT0012.

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College-Level Mathematics
Elective Credit

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+MAT1033, Intermediate Algebra
3 hrs., 3 crs.

Prerequisite: Math placement test or minimum grade of "C" in MAT0012 or MAT0055 or MAT0056.

Intermediate Algebra receives college credit, but only elective credit, and cannot be used to satisfy the math requirements for the Associate in Arts degree. Topics included are factoring, algebraic fractions, radicals and rational exponents, complex

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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 of the above topics.

MCB – MICROBIOLOGY

+MCB2004, Microbiology
3 hrs., 3 crs.
Prerequisites: Must have completed 3 hrs. biology or 3 hrs. chemistry. Corequisite: MCB2004L. The study of bacteria, molds, yeast, and other microorganisms. Emphasis is on distribution, spread, culturing, identification, classification, and the role of these microorganisms in human diseases. This course is not intended for biology majors.

+MCB2004L, Microbiology Laboratory
3 hrs., 1 cr.
$88.00 lab fee
Corequisite: MCB2004.
Microbiology lab covers the study of bacterial techniques. Students learn how to culture and stain bacteria as well as perform metabolic tests to aid in bacterial identification. The effects of antibiotics and disinfectants on microbial growth are also tested.

MET – METEOROLOGY

MET1010, Introductory Meteorology
3 hrs., 3 crs.
A study of the observation and distribution of weather variables, atmospheric motion, precipitation, and topics in modern weather science.

MGF – MATHEMATICS: GENERAL AND FINITE

+MGF1106, Mathematics for Liberal Arts I
3 hrs., 3 crs.
Prerequisite: Successful completion of developmental courses, appropriate placement test scores or meet state exemption requirement.
This course requires the student to be skilled in Intermediate Algebra, and so it is recommended that transfer students demonstrate an algebra placement score greater than or equal to 88 or a minimum grade of "C" in MAT 1033. Topics covered include sets, logic, geometry, combinatories, probability, and elementary statistics.

+MGF1107, Mathematics for Liberal Arts II
3 hrs., 3 crs.
Prerequisite: Successful completion of developmental courses, appropriate placement test scores or meet state exemption requirement. This course requires the student to be skilled in Intermediate Algebra, and so it is recommended that transfer students demonstrate an algebra placement score greater than or equal to 88. Topics covered include the history of numbers, number theory, graph theory, mathematical modeling, and transformation geometry.

MKA – MARKETING APPLICATIONS

#MKA2511, Principles of Advertising
3 hrs., 3 crs.
Theory and administration of advertising, including functions, research, distribution, displays, direct mail, newspapers, layout, illustration, typography, engraving, and printing.

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MMC – MASS MEDIA COMMUNICATION

MMC1000, Survey of Mass Communication
3 hrs., 3 crs.
History of, current trends in, and principles of application in the mass media (Internet, radio, television, newspaper, books, magazines, films, and advertising).

+MMC2100, Writing for Mass Communication
3 hrs., 3 crs.
Prerequisite: ENC1101 with a minimum grade of "C."
Techniques used in preparing copy for mass communications media. Development of fundamental skills used in writing for newspapers, magazines, radio, television, Internet, public relations, and advertising.

MNA – MANAGEMENT: APPLIED

#MNA1100, Human Relations in Management
3 hrs., 3 crs.
An introductory course concerned with the nature, scope, and understanding of human interactions as they relate to management. Emphasis on theory and practice using convention and laboratory methods.

MTB – MATHEMATICS – TECHNICAL AND BUSINESS

+MTB1371, Math for Health-Relation Professions
2 hrs., 2 crs.
Prerequisite: Knowledge of basic arithmetic.
Math for health-related professions is designed for students completing a degree or certificate in a health-related field. The course is not intended to satisfy general education requirements in mathematics. Topics covered include: 1) arithmetic, 2) the metric system, 3) apothecary measurements, 4) techniques of health-data analysis, and 5) applications to various fields in the health-care system. Students will be allowed to use a calculator in MTB 1371 after exam 1. The TI-83/84 are the only allowable calculators for test days. If a student wishes to use any other calculator they must see their instructor in advance for approval.

MUC – MUSIC: COMPOSITION

+MUC2000, Songwriting
3 hrs., 3 crs.
Prerequisite: MUT1111.
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.

MUL – MUSIC LITERATURE

MUL2010, Understanding Music
3 hrs., 3 crs.
(Meets Fine Arts Humanities requirement).
Introduction to the world of music. Study of musical literature, styles, and forms; development of intelligent and sensitive listening ability; and increase of self enjoyment of music. American music, including jazz, as well as music of other cultures included.

+MUL2110, Survey of Music Literature
3 hrs., 3 crs.
Prerequisites: MUT1112, MUT1242, or permission of instructor.
(Meets Fine Arts Humanities requirement.)

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The analysis and study of music literature. Includes intensive listening and reading of musical scores. (Intended for music majors.)

MUM – MUSIC: COMMERCIAL/MANAGEMENT/ADMINISTRATION

+MUM1622, Sound Reinforcement Fundamentals
3 hrs., 3 crs.
Sound reinforcement fundamentals is a course designed to provide students with background in live sound reinforcement, concert sound practices, and general pa work associated with sound engineering.

+MUM2600, Sound Recording I
3 hrs., 3 crs.
Prerequisite or Corequisite:MUM 2600L.
This course offers basic information in the art of recording vocal and instrumental sound with emphasis on understanding the functions of recording equipment, placement of microphones, making initial recordings of various groups or soloists, and the ability to mix-down the initial recordings.

+MUM2600L, Sound Recording Lab
2 hrs., 2 crs.
Prerequisite or Corequisite: MUM 2600.
This course is designed to provide students with "hands on" experience in conjunction with live performance activities. This course may be taken four (4) times for credit. Basic computer skills in Windows are essential. Note: This course is a corequisite for MUM2600, MUM2601, and MUM2604.

+MUM2601, Sound Recording II
3 hrs., 3 crs.
Prerequisite: MUM2600. Corequisite: MUM2600L.
This course explores advanced multi-track recording skills, microphone techniques, use of outboard equipment and live multi-track recording.

+MUM2602, Sound Recording III
3 hrs., 3 crs.
This course in music technology presents advanced techniques used in working with DIGIDESIGN PRO TOOLS hardware and software in professional studio recording and editing. This course will prepare students for MUM2604.

MUM2604, Multitrack Mixdown (Post Production)
3 hrs., 3 crs.
This course explores the process of preparing and transferring recorded audio from a source aining the final mix to a data storage device, and the application of signal processing equipment and as it relates to multitrack master mixdowns. In addition, software and hardware application of mixdown is applied to post-production practices.

MUM2720, The Business of Music
3 hrs., 3 crs.
This course examines the fundamentals, guidelines and use of copyright law, racts, agencies and management, publishing, song writing, recording production and marketing in the field of music.

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MUN – MUSIC ENSEMBLES

MUN1130, Instrumental Ensemble
3 hrs., 1 cr.
The rehearsal and performance of a variety of music from the instrumental repertoire. (May be repeated up to three times for credit.)

MUN1340, Singing Commodores
4 hrs., 1 cr.
A show choir performance group. By audition only. Students are expected to participate for the entire academic year. (May be repeated up to three times for credit.)

MUN2120, Concert Band I
3 hrs., 1 cr.
The study and performance of a wide variety of concert band literature. (Open to all college students. May be repeated up to two times for credit.)

MUN2210, College Orchestra
3 hrs., 1 cr.
The study and performance of orchestral literature. (By audition or permission of the instructor only. May be repeated up to 3 times for credit.)

MUN2310, Concert Chorale I
3 hrs., 1 cr.
The study and performance of works representative of a wide spectrum of choral literature. (Open to all college students. May be repeated up to two times for credit.)

MUN2311, Choral Ensemble
3 hrs., 1 cr.
The rehearsal and performance of a variety of music from the choral repertoire, including a wide spectrum of material for groups of all sizes. (May be repeated up to three times for credit.)

+MUN2312, Concert Chorale II
3 hrs., 1 cr.
Prerequisites: MUN2310, permission of instructor.
The study and performance of works representative of a wide spectrum of choral literature. (Open to all college students. May be repeated up to two times for credit.)

MUN2710, Jazz Ensemble
3 hrs., 1 cr.
(Audition and instructor permission required.) The study and performance of jazz and popular band literature. (May be repeated up to three times for credit. Open to all GCCC students.)

MUO – MUSIC: OPERA/MUSICAL THEATRE

MUO1020, Musical Productions
1 hr., 1 cr.
Performance or technical work in musicals, operas, oratorios, or revues. (May be repeated up to three times for credit.)

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MUS – MUSIC

MUS2550, Music Technology
3 hrs., 3 crs.
The study of music technology, including midi sequencing, notation, CD ROMS, and the Internet.

MUT – MUSIC: THEORY

MUT1011, Reading and Writing Music
3 hrs., 3 crs.
A basic music theory class. Application of the fundamental materials of music theory. (Does not satisfy music major theory requirement.)

+MUT1111, Music Theory I
3 hrs., 3 crs.
Corequisite: MUT1241.
A systematic study of the materials and structures of music. Study includes fundamen-tals, diatonic, chromatic, and twentieth-century concepts.

+MUT1112, Music Theory II
3 hrs., 3 crs.
Prerequisite: MUT1111 or permission of instructor. Corequisite: MUT1242.
A systematic study of the materials and structures of music. Study includes fundamentals, diatonic, chromatic, and twentieth-century concepts.

+MUT1241, Ear Training and Sight Singing I
2 hrs., 1 cr.
Corequisite: MUT1111.
Development of ear training skills and sight singing.

+MUT1242, Ear Training and Sight Singing II
2 hrs., 1 cr.
Prerequisite: MUT1241 or permission of instructor. Corequisite: MUT1112.
Development of ear training skills and sight singing.

+MUT2116, Music Theory III
3 hrs., 3 crs.
Prerequisite: MUT1112 or permission of instructor. Corequisite MUT2246.
A systematic study of the materials and structures of music. Study includes fundamen-tals, diatonic, chromatic, and twentieth-century concepts.

+MUT2117, Music Theory IV
3 hrs., 3 crs.
Prerequisite: MUT2116 or permission of instructor. Corequisite: MUT2247.
A systematic study of the materials and structures of music. Study includes fundamen-tals, diatonic, chromatic, and twentieth-century concepts.

+MUT2246, Ear Training and Sight Singing III
2 hrs., 1 cr.
Prerequisite: MUT1242 or permission of instructor. Corequisite: MUT2116.
Development of ear training skills and sight singing.

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+MUT2247, Ear Training and Sight Singing IV
2 hrs., 1 cr.
Prerequisite: MUT2246 or permission of instructor. Corequisite: MUT2117.
Development of ear training skills and sight singing.

MVB – APPLIED MUSIC: BRASSES

MVK – APPLIED MUSIC: KEYBOARD

MVP – APPLIED MUSIC: PERCUSSION

MVS – APPLIED MUSIC: STRINGS

MVV – APPLIED MUSIC: VOICE

MVW – APPLIED MUSIC: WOODWINDS

Applied Music Prep
2 hrs., 2 crs.
$180.00 lab fee per course
Private lessons in principal instrument or voice for students preparing to enter freshman level of instruction. Placement determined by audition. May be repeated up to a maximum of 4 times for credit. Open to music and theatre majors only.

MVB	1011	Applied Trumpet Prep
MVB	1012	Applied French Horn Prep
MVB	1013	Applied Trombone Prep
MVB	1014	Applied Baritone Prep
MVB	1015	Applied Tuba Prep
MVK	1011	Applied Piano Prep
MVP	1011	Applied Percussion Prep
MVS	1011	Applied Violin Prep
MVS	1012	Applied Viola Prep
MVS	1013	Applied Cello Prep
MVS	1014	Applied Double Brass Prep
MVS	1016	Applied Guitar Prep
MVV	1011	Applied Voice Prep
MVV	1012	Applied Musical Theatre Voice Prep
MVW	1011	Applied Flute Prep
MVW	1012	Applied Oboe Prep
MVW	1013	Applied Clarinet Prep
MVW	1014	Applied Bassoon Prep
MVW	1015	Applied Saxophone Prep

Applied Music
2 hrs., 2 crs.
$180.00 lab fee per course
Private lessons in principal instrument or voice. May be repeated up to a maximum of 4 times for credit. Open to music and theatre majors only. Placement determined by audition.

MVB	1311, 2321	Applied Trumpet
MVB	1312, 2322	Applied French Horn
MVB	1313, 2323	Applied Trombone
MVB	1314, 2324	Applied Baritone
MVB	1315, 2325	Applied Tuba
MVK	1311, 2321	Applied Piano
MVP	1311, 2321	Applied Percussion
MVS	1311, 2321	Applied Violin
MVS	1312, 2322	Applied Viola

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MVS   1313, 2323 Applied Cello
MVS   1314, 2324 Applied Double Bass
MVS   1316, 2326 Applied Guitar
MVV   1311, 2321 Applied Voice
MVV   1312, 2322 Applied Musical Theatre Voice
MVW   1311, 2321 Applied Flute
MVW   1312, 2322 Applied Oboe
MVW   1313, 2323 Applied Clarinet
MVW   1314, 2324 Applied Bassoon
MVW   1315, 2325 Applied Saxophone

MVK1111, Class Piano I
2 hrs., 1 cr.
Beginning class instruction in piano techniques and keyboard harmony.   (May be repeated once for credit.)

+MVK2121, Class Piano II
2 hrs., 1 cr.
Prerequisite: MVK1111.
Intermediate class instruction in piano techniques and keyboard harmony. (May be repeated once for credit.)

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NMT – NUCLEAR MEDICINE TECHNOLOGY

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+#NMT1312, Radiation Protection and Safety
45 contact hrs., 3 crs.
This course will teach methods of radiation protection, safety procedures and regulations according to the NRC, DOT and DOH; differentiate monitoring devices and detectors; dose and exposure limits; institutional licensing; possession limits; patient protection; receiving and disposing of radioactive material and packages; decontamination procedures; therapy procedures; as well as knowledge of regulatory agencies.

+#NMT1613, Nuclear Medicine Physics
45 contact hrs., 3 crs.
Prerequisite: Approved physics.
This course will develop the understanding of radioactive decay, structure of the atom, atomic nomenclature. The student will be able to discuss the different types of radiation; the characteristics of each and how each react with matter. The student will also be able to calculate: radioactive decay, decay equations, decay factors, effective half-life, biological half-life, half value layers, standard deviation, and in the presence of background.

+#NMT1713, Nuclear Medicine Methodology
45 contact hrs., 3 crs.
This course covers nuclear medicine diagnostic procedures, including anatomy and physiology, pathophysiology, and protocols for routine and non-routine nuclear medicine procedures, bone imaging, cardiovascular system, central nervous system, digestive system and endocrine system.

+#NMT1723, Nuclear Medicine Methodology II
45 contact hrs., 3 crs.
Prerequisite: NMT 1713.
This course covers diagnostic procedures, including anatomy and physiology, pathophysiology, and protocols for routine and non-routine nuclear medicine procedures, genitourinary system procedures, respiratory system imaging, hematology and in vitro studies, and PET/CT imaging specifics.

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+#NMT1733, Nuclear Medicine Methodology III
45 contact hrs., 3 crs.
Prerequisite: NMT 1723.
This course covers diagnostic procedures, and protocols for oncology/inflammation procedures, and radionuclide procedures.

+#NMT1804, Nuclear Medicine Clinical Education I
360 contact hrs., 3 crs.
$50.00 lab fee
Corequisite: NMT 1713.
The course allows nuclear medicine students the opportunity to apply the skills necessary for patient care, administrative duties, and to apply the knowledge and skills of diagnostic procedures, and protocols for routine and non-routine nuclear medicine procedures, bone imaging, cardiovascular system, central nervous system, digestive system and endocrine system in the NMT1713 course.

+#NMT1814, Nuclear Medicine Clinical Education II
360 contact hrs., 3 crs.
$33.00 lab fee
Prerequisite: NMT 1804. Corerequisite: NMT 1723.
A continuation of NMT 1804, this course allows nuclear medicine students the opportunity to apply the skills necessary for patient care, administrative duties, and to apply the knowledge and skills of diagnostic procedures, and protocol for genitourinary system procedures, respiratory system imaging, hematology and in vitro studies, and PET/CT imaging specifics. Clinical experience may include rotations through general, cardiac, pediatric, positron emission tomography and positron emission tomography/computed tomography, single-photon emission computed tomography, and single-photon emission computed tomography/computed tomography.

+#NMT1824, Nuclear Medicine Clinical Education III
360 contact hrs., 3 credit hours
$33.00 lab fee
Prerequisite: NMT 1814.
A continuation of NMT 1814, this course allows nuclear medicine students the opportunity to apply the skills necessary for patient care, administrative duties, and to apply the knowledge and skills of diagnostic procedures, and protocol for diagnostic procedures, and protocols for oncology/inflammation procedures, and radionuclide procedures.

+#NMT1834, Nuclear Medicine Clinical Education IV
360 contact hrs., 3 crs.
$50.00 lab fee
Prerequisite: NMT 1824.
The course allows nuclear medicine students the opportunity to apply and enhance their skills of diagnostic procedures, and protocol for all diagnostic procedures. During this clinical education, students shall be under the supervision of certified or licensed nuclear medicine technologists. Clinical experience should include rotations through general, cardiac, pediatric, positron emission tomography and positron emission tomography/computed tomography, single-photon emission computed tomography, and single-photon emission computed tomography/computed tomography. Ancillary rotations in magnetic resonance imaging and computed
tomography to include the administration of contrast media may be included.

+#NMT2061, Nuclear Medicine Seminar
30 contact hrs., 2 crs.
Prerequisite: NMT1733.
This course involves comprehensive testing, discussions and refinement of knowledge of all aspects of Nuclear Medicine technology complementary to national and state certification and professional competency.

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+#NMT2130, Radiopharmacy and Radiochemistry
45 contact hrs., 3 crs.
Prerequisite: CHM1032.
This course covers the theory and practice of radiopharmacy, including preparation and calculation of the dose to be administered, quality control, radiation safety, and applicable regulations. In addition, it deals with nonradioactive interventional drugs and contrast media that are used as part of nuclear medicine procedures. For all administered materials, it addresses the routes of administration, biodistribution mechanisms, interfering agents, contraindications, and adverse effects.

#NMT2430, Nuclear Medicine Radiation Biology
45 contact hrs., 3 crs.
The course involves a detailed study of the effects of radiation exposure on biological systems. Typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure.

+#NMT2534C, Nuclear Medicine Instrumentation
75 contact hrs., 3 crs.
This course covers the principles of operation and quality control for non-imaging instruments, including monitoring equipment, dose calibrators, well counters, uptake probes, liquid scintillation systems, laboratory equipment, and the gamma probe. This course also includes the principles and applications of statistics as they relate to nuclear medicine instrumentation, the configuration, function, and application of computers and networks in nuclear medicine. Students should have extensive laboratory and clinical experience performing data acquisition, manipulation, and processing. Laboratory and clinical experience should be included in the
learning process.

NSP – NURSING: SPECIAL

+#NSP2090, Registered Nurse First Assistant
45 hrs., 3 crs.
This course is designed to prepare the registered perioperative nurse in the specialized expanded area of practice as a first assistant in surgery. This course includes instruction in preoperative patient management, intraoperative surgical assisting, and postoperative patient management. Preoperative patient management includes but is not limited to performing preoperative evaluation/focused nursing assessment, communicating/collaborating with other health care providers regarding the patient plan of care, and writing preoperative orders according to established protocols. Intraoperative surgical first assisting includes but is not limited to using instruments/medical devices, providing exposure, handling and/or cutting tissue, providing hemostasis, and suturing. Postoperative patient management includes but is not limited to writing postoperative orders/operative notes, participating in postoperative rounds, and assisting with discharge planning and identifying appropriate community resources.

+#NSP2090L, Registered Nurse First Assistant Lab/Clinical
190 hrs., 3 crs.
$299.00 lab fee
Prerequisite: NSP2090.
This course is designed to provide lab and clinical experience to the registered nurse emphasizing the expanded functions and skills of the Registered First Assistant during operative and other invasive procedures. Content includes 35 hours of patient management experiences with 120 hours of intraoperative surgical first assisting clinical experience. A one-week 35-hour lab experience provides hands on practice and competency assessment. This course includes a study of common surgical procedures including but not limited to relevant anatomy and physiology, pathophysiology, sequence of procedure, assisting behaviors, instrumentation, equipment, medical devices, operative technique, and potential complications for the procedure.

#*NSP2230, GI Endoscopy Nursing Theory
45 hrs., 3 crs.
Course is designed to prepare or introduce the registered nurse or nursing student to Gastrointestinal Endoscopic Nursing. Content covered includes a review of relevant anatomy and physiology, related pathophysiology, nursing role and

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responsibilities, the nursing assessment, patient care, procedure monitoring, specialty equipment, relevant pharmacology, gastrointestinal and pulmonology lab procedures, assisting behaviors, potential complications, emergency preparedness, risk management, and documentation. An introduction to managing the endoscopy team, appropriate delegation, endoscopy sedation, and the ambulatory surgery center setting is also included.

#*NSP2230L, GI Endoscopy Nursing Lab and Clinical
185 hrs., 3 crs.
$102.00 lab fee
Course provides 185 hours of experience in the field of flexible endoscopy procedure units.

+#NSP2290, Perioperative Nursing Theory
3 hrs., 3 crs.
Prerequisite or Corequisite: ENC1101, PSY2012, humanities elective.
This course is designed to introduce the registered nurse or nursing student to perioperative nursing with a focus on the interoperative component. This course includes an introduction to surgical technique. There is an additional cooperative clinical/lab component that is available under cooperative education for hands on experience in the surgical setting.

+#NSP2290L, Clinical Internship in Perioperative Nursing
200 hrs., 3 crs.
$90.00 lab fee
This course is designed to introduce the individual to perioperative surgical nursing with a focus on intraoperative nursing. This course includes a study of the patient's perioperative experience, roles and responsibilities of the registered nurse; principles and practice of sterile technique; sterilization and disinfection; operating room hazards; and an introduction to surgical technique.

NUR – NURSING, GENERIC UNDERGRADUATE

+#NUR1000C, LPN to ADN Transition
5 hrs., 5 crs.
$12.00 lab fee
Prerequisites: Completion of general education courses described in the application packet: BSC2085, BSC2085L, BSC2086, BSC2086L, DEP2004, HUN1201, NUR1142, SYG2000.
Successful completion of a Practical Nursing Program. Receipt of proof of a Practical Nursing License in the State of Florida. This course is designed to facilitate entry of the licensed practical nurse into the associate degree nursing program, building on the P.N. curriculum. All students will demonstrate the transition between the role of the licensed practical nurse to associate degree registered nurse. This course includes program information regarding philosophy, curriculum framework, nursing outcomes, roles and functions of the R.N., utilization of the nursing process, and selected aspects of patient assessment. Students will expand their knowledge regarding pharmacology, pathophysiology, communication and teaching. Evaluation of assessments, selected clinical skills, care planning and management are also included.

+#NUR1005C, LPN to ADN Transition
2 hrs., 1 cr.
$12.00 lab fee
Prerequisites: Completion of general education courses described in the application packet: BSC2085, BSC2085L, BSC2086, BSC2086L, DEP2004, HUN1201, NUR1142, SYG2000.
Designed to orient the LPN to ADN student to the nursing program and to facilitate the transition from the role of Licensed Practical Nurse to Associate Degree Nurse and ultimately, registered nurse. Includes program philosophy, framework and outcomes, role and functions of the R.N., utilization of the nursing process, nursing management, and selected aspects of patient assessment. Evaluation of selected clinical skills, management and pharmacology math are also included.

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+#NUR1022C, Foundations of Nursing Practice
4 hrs., 3 crs.
$44.00 lab fee
Prerequisites: BSC2085, BSC2085L.
Introduction to the health care system, the nursing role, conceptual model of the curriculum and the nursing process. Theories of Maslow and Erikson as a basis for assessment of needs focusing on normal parameters. Includes a study of medical terminology, communication skills, pharmacology math, health teaching, and introductory nursing management. Concurrent campus lab experiences provided for the development of psychomotor skills.

+#NUR1142, Introduction to Pharmacology
2 hrs., 2 crs.
Prerequisite: BSC2085. Prior completion of BSC2086, MCB2004, and knowledge of medical terminology is also helpful. This course is restricted to RN-APP / RN-AS / LPN-ADN transition students, and students must have consent of nursing advisor for enrollment.
This is an introductory survey course addressing broad drug groups and classifications. Topics include pharmacokinetics, pharmacodynamics, drug preparations, interactions, adverse and side effects, legal aspects, and application of the nursing process to the pharmacological plan of care.

+#NUR1210C, Nursing Care of the Adult I
6 hrs., 4 crs.
$44.00 lab fee
Prerequisite: NUR1022C.
This course covers utilization of the nursing process with applications to the adult experiencing alterations in the health state. Content addresses the surgical experience, alterations in protective functions, oncology, death and dying, sexuality, comfort, rest, activity, and mobility. Introductory nursing management principles are applied in the clinical setting. Concurrent campus and clinical lab experiences are provided.

+#NUR1212C, Nursing Care of the Adult II
9 hrs., 5 crs.
$34.00 lab fee
Prerequisites: NUR1210C, BSC2086, BSC2086L, NUR1142, DEP2004, HUN1201.
This course utilizes the nursing process with applications to the adult client experiencing medical and surgical health complications, abnormal health states. Emphasis is placed on the state of fluid and electrolyte imbalances; ingestive and digestive abnormalities; pancreatic, liver, and gallbladder abnormalities and disease; eye and ear abnormalities and diseases; and selected cerebral-spinal abnormalities and disease in central and peripheral nervous systems. Specific exercises in management principles are provided in the clinical setting.

+#NUR1281C, Gerontological Nursing
7 hrs., 5 crs.
$25.00 lab fee
Prerequisites: NUR1210C, BSC2086, BSC2086L, NUR1142, DEP2004, HUN1201.
Introduction to the nursing care of aging persons. Includes a study of the characteristics of the older population, aging theories, issues in aging and characteristics of normal aging. This course also focuses on the unique knowledge and skill utilized in applying the nursing process to older adults and selected illnesses. Concurrent clinical experience is provided in long-term care and community care agencies.

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+#NUR2241C, Nursing Care of the Adult III
13 hrs., 8 crs.
$32.00 lab fee
Prerequisites: NUR2420C, NUR2310C, NUR2520C, MCB2004, MCB2004L.
Utilization of the nursing process with applications to the adult experiencing more alterations in the health state. This course emphasizes alterations in metabolism, elimination (renal), and oxygenation/safety. Included is a study of the intensive care experience and emergency nursing. Concurrent campus and clinical labs are provided.

+#NUR2310C, Nursing Care of the Child
6 hrs., 4 crs.
$45.00 lab fee
Prerequisites: NUR1212C, NUR1281C, SYG2000.
This course utilizes the nursing process and family-centered care to provide nursing care for children and their families in the hospital, home, ambulatory and community settings. Emphasis is placed on the application of normal growth and development principles as well as selected health problems of children. A variety of clinical rotation experiences are provided which assist the student in applying theoretical knowledge to clinical situations in the pediatric setting. Specific exercises and opportunities emphasize critical thinking, communication, cultural consideration, growth and development, assessment, legal and ethical considerations, and management principles.

+#NUR2420C, Maternal-Infant Nursing
6 hrs., 4 crs.
$40.00 lab fee
Prerequisites: NUR1212C, NUR1281C, SYG2000.
This course focuses on the application of the nursing process to the childbearing family. Content includes reproductive anatomy and physiology, conception and fetal development, pregnancy, pregnancy at risk, the birth process, the postpartum period, the normal newborn, the newborn with selected risks, and methods of fertility control. Legal and ethical concepts are considered, along with selected principles of nursing leadership and management. Concurrent campus and clinical lab experiences are provided.

+#NUR2520C, Psychiatric Mental Health Nursing
6 hrs., 4 crs.
$16.00 lab fee
Prerequisites: NUR1212C, NUR1281C, SYG2000.
Utilization of the nursing process with applications to the individual experiencing biopsychosocial alterations in the health state. Emphasis is placed on the use of the therapeutic interpersonal process in meeting client's needs. Management of the therapeutic milieu and time related issues are also addressed. Includes an overview of mental health nursing and care of the persons with disrupted coping patterns and altered thought processes. Concurrent campus and clinical lab experiences are provided in institutional and community-based practice settings.

+#NUR2930, Selected Topics in Nursing I
1 hr., 1 cr.
Prerequisite: Permission of instructor.
Individualized study of selected aspects in nursing.

+#NUR2932, Selected Topics in Nursing II
2 hrs., 2 crs.
Prerequisite: Permission of instructor.
A more in depth individualized study of selected aspects of nursing.

+#NUR2945C, Nursing Practicum
5 hrs., 3 crs.
$25.00 lab fee
Prerequisite: NUR2241C.

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Clinical application and analysis of selected nursing situations. Completion of comprehensive nursing exam. Clinical lab component consists of preceptorship experience to assist in role transition from student to graduate nurse. Students may be assigned clinical labs on shifts other than day shifts.

*NUR3069, Advanced Health Assessment
3 hrs., 3 crs.
A course designed to develop the student's knowledge and skills for obtaining and recording a systematic, comprehensive health history and physical examination of the adult. The course involves synthesis of nursing, biologic, psychologic, and sociocultural knowledge and theories as they apply to the findings obtained in the comprehensive health assessment of adults. Variations in children and elders are also analyzed. The process whereby the nurse utilizes interviewing and clinical examination skills to gather and analyze data relevant to common health problems is emphasized.

*NUR3119, Nursing Concepts and Theories
3 hrs., 3 crs.
This course includes information on the profession of nursing and introduces the student to the heritage of nursing. The focus is on the contemporary image of the nursing profession in its varied roles within the health care system. The philosophical and theoretical bases of nursing as a profession are explored. The emphasis is on recognition of nursing as a vital component of health care and on the beginning socialization of students into the professional role.

*NUR3128, Pathophysiology
3 hrs., 3 crs.
This course includes information about the pathophysiologic base and pharmacologic management of disease processes across the lifespan. The focus is on alterations in physiologic function as manifestations of disease, and differences in children, adults, and older adults. Emphasis is on relating signs, symptoms, and laboratory findings of common alterations and understanding the appropriate pharmacologic management to promote adaptation.

+*NUR3167, Research Process for Professional Nursing
3 hrs., 3 crs.
Prerequisite: STA2023.
This introductory course is designed to promote conceptualization of both the basic research process and the importance of research to support evidenced-based nursing practice. Emphasis is also on understanding and utilizing technological resources available for accessing published healthcare research.

*NUR3636C, Community Health Nursing
5 hrs., 4 crs.
$17.00 lab fee
This course provides an understanding of community nursing including adaptive responses of client groups, research on community nursing and its application to clients within the community, and the concepts of epidemiology and biostatistics. Application in a clinical setting of community nursing includes adaptive responses of client groups, research on community nursing and its application to clients within the community, and the concepts of epidemiology and biostatistics. Assessment of the community and its healthcare delivery systems will be emphasized, including the social structures within the community and family structures. The role of the nurse in dealing with family crises, gerontological problems, child-bearing and child-rearing families, and medical-surgical conditions will be explored. Historical, legal, ethical, and economic issues affecting adult/gerontological nursing will also be a focus.

*NUR3895, Teaching and Learning for the Healthcare Professional
3 hrs., 3 crs.
An overview course designed to include teaching and learning theories, educational needs assessment, development of teaching and learning objectives, teaching strategies and methodologies, and evaluation of instruction. Strategies for teaching individuals, small groups, and the client will also be included.

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*NUR3925, Symposium
1 hr., 1 cr.
This select symposium centers around the exploration of a specific topic or to enhance specific professional skills. Topics may vary. Topics are selected on the basis of what is new or currently relevant in the field.

*NUR4655, Multicultural Factors and Health
3 hrs., 3 crs.
This course will provide a comparative analytical approach to the study of communication, current problems, issues, health care beliefs, values, and cultural norms as they affect health care practices. Institutional health care policies and standards which conflict with ethical or cultural beliefs will be explored.

*NUR4827C, Leadership and Management
5 hrs., 4 crs.
$17.00 lab fee
This course provides a foundational understanding of how nurse leaders apply the principles of management, leadership, and administrative processes in both private and public organizations. Application in the clinical setting will include promoting a foundational understanding of how nurse leaders apply the principles of management, leadership, and administrative processes in both private and public organizations. Focus topics include an emphasis on: organizational change, measuring quality, performance evaluation, effective communication, motivation, relationship development, and collaborative teamwork.

*NUR4837, Health Care Policy and Economics
3 hrs., 3 crs.,
This course will provide the student with a foundation for participating in health policy with organizations and for understanding the economic impact of health planning. Content will include a review of the organization of health care systems, health care financing, economic implications, and the role of the provider in policy-making. Emphasis is on the analysis of health policy from a socioeconomic, ideological, political, historical, and technological perspective while integrating clinical management processes and the use of available community fiscal resources.

*NUR4847, Clinical Decision Making
3 hrs., 3 crs.
This course teaches a conceptual understanding of the logical and critical thought processes required of a professional nurse. The reasoning process is the essential link between information gathering and decision making. The aim of this course is to develop the analytical abilities that are necessary for tertiary studies, as well as for professional practice.

+*NUR4925, Symposium
1 hr., 1 cr.
Prerequisite: NUR3925.
This select symposium centers around the exploration of a specific topic or to enhance specific professional skills. Topics may vary. Topics are selected on the basis of what is new or currently relevant in the field.

+*NUR4945C, Nursing Capstone Practicum
2 hrs., 2 crs.
Prerequisite: NUR4925.
This course includes practical application in a clinical setting of knowledge learned in the classroom.

OCE – OCEANOGRAPHY/OCEAN ENGINEERING

OCE1001, Fundamentals of Oceanography
3 hrs., 3 crs.
A study of the ocean basins, the ocean floor, seawater, water masses, circulation, tides, waves, sediment, and topics in modern ocean science.

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OST – OFFICE SYSTEMS TECHNOLOGY

#OST1061, Introduction to Office Management
3 hrs., 3 crs.
(Offered fall semester only).
This course is designed to prepare the student to efficiently perform essential skills needed in the office environment and to develop an understanding of everyday office routines. Topics include prioritizing work and time management, handling mail and electronic communications, making travel and conference arrangements, developing basic grammar and proofreading skills, cultivating ethics and professionalism in the office, refining telephone skills, and other appropriate topics.

OST1101, Keyboarding & Document Processing I
3 hrs., 3 crs.
A study of the QWERTY keyboard, the mechanics of the typewriter/microcomputer, reports, business letters, and forms.

+OST1102, Keyboarding & Document Processing II
3 hrs., 3 crs.
(Offered spring semester only).
Prerequisite: OST1101 or pretest by instructor.
A continuation of OST1101.

+#OST1355, Records Management
3 hrs., 3 crs.
Prerequisites: OST1101 and CGS1570 or consent of instructor.
This course is designed to develop an understanding of the principles and practices in effective records management. The importance of using correct filing procedures and processes in the storing of records is emphasized. The ARMA filing rules will be emphasized throughout the course. The use of Microsoft Access database software and other alternatives to file storage and retrieval will be an integral part of the course.

+#OST1461, Computerized Medical Office Management
3 hrs., 3 crs.
Prerequisites: OST1101, HSC1531, CGS1570.
Lectures and laboratory experiences on the most popular medical office management software program in use. Students are trained in maintaining patient files, storing treatment information, matching codes with treatment procedures, diagnoses and charges, and in medical insurance claims and procedures.

+#OST1611, Medical Transcription 1
3 hrs., 3 crs.
Prerequisites: HIM1000, HIM1475, HIM2652, HIM2430, and HIM2442.
Transcribing of basic healthcare dictation, incorporating skills in English language, technology, medical knowledge, proofreading, editing, and research, while meeting progressively demanding accuracy standards.

+#OST1612, Medical Transcription 2
3 hrs., 3 crs.
Prerequisite: OST1611
Transcription of intermediate original healthcare dictation using intermediate proofreading, editing, and research skills, while meeting progressively demanding accuracy and productivity standards.

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+#OST1613, Medical Transcription 3
3 hrs., 3 crs.
Prerequisite: OST1612
Transcription of advanced original healthcare dictation using advanced proofreading, editing, and research skills, while meeting progressively demanding accuracy and productivity standards.

+#OST1614, Medical Transcription 4
2 hrs., 2 crs.
Prerequisite: OST1613
This course offers a minimum of 100 transcription hours in an externship or simulated professional practice setting, emphasizing a variety of healthcare documents.

+OST1856, Word Processing with Microsoft Word for Windows
3 hrs., 3 crs.
 (Offered fall semester only).
Prerequisites: OST1101 and CGS1570. The student must know the QWERTY keyboard by touch before entering this course. This course uses the current version of Microsoft Word for Windows to develop skills necessary to utilize commercial word processing software. Students will learn how to effectively handle the word processing needs for personal and small business use.

+#OST2335, Business Communications
3 hrs., 3 crs.
Prerequisites: OST1101, ENC1101 with a minimum grade of "C" or satisfactory score on the Gulf Coast State College English placement test.
This course focuses on the general principles of effective communications and applies them to specific types of writing: the business letter and the memorandum. Students study the mechanics of writing and methods of writing effectively. Current grammar usage is addressed.

+#OST2601, Machine Transcription
3 hrs., 3 crs.
 (Offered fall semester only).
Prerequisites: OST 1101 or OST1856 or CGS1570.This course provides training in machine transcription skills. Speed, accuracy, neatness, and mailable copy are emphasized on the various documents that are transcribed. Language arts skills and decision-making are developed in this course.

+#OST2811, Desktop Publishing with Microsoft Publisher
3 hrs., 3 crs.
Prerequisites: CGS1570, OST1856, or consent of instructor.
A hands-on approach to desktop publishing for the office using Microsoft Publisher. The student will learn the skills required to create professional quality newsletters, flyers, brochures, business cards, and more using pre-designed templates as well as original layouts to customize content and create publications. (Offered spring semester only).

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PEL – PHYSICAL EDUCATION ACTIVITIES
(GENERAL) – OBJECT CENTERED, LAND

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PEL1214, Intercollegiate Softball Workshop
2 hrs., 1 cr.
An activity course designed to serve varsity women's softball team members.

PEL1219, Intercollegiate Baseball Workshop
2 hrs., 1 cr.
An activity course designed to serve varsity baseball team members.

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PEL1324, Intercollegiate Volleyball Workshop
2 hrs., 1 cr.
An activity course designed to serve the varsity women's volleyball team members.

PEL1621, Theory and Practice of Basketball
2 hrs., 1 cr.
This course is designed for students to gain a working knowledge of rules, theory, and strategy of the sport of basketball through lecture, video, and on court demonstration and practice.

PEL1624, Intercollegiate Basketball Workshop
2 hrs., 1 cr.
An activity course designed to serve varsity basketball team members.

PEM – PHYSICAL EUCATION ACTIVITIES (GENERAL), PERFORMANCE CENTERED, LAND

PEM1116, Lifetime Fitness
2 hrs., 1 cr.
This course is designed to improve or maintain strength and fitness levels through cross training. Activities such as weight training, land aerobics, water aerobics, walking and jogging are included. Emphasis in on fitness and proper exercise techniques.

PEM1131, Weight Training
2 hrs., 1 cr.
This course is designed to improve or maintain strength and fitness levels through weight training. Emphasis is on fitness and proper use of weight equipment.

PEM2171, Aerobics
2 hrs., 1 cr.
This course is designed to improve cardiovascular fitness through dance and exercise.

PEN - PHYSICAL EUCATION ACTIVITIES (GENERAL), WATER, SNOW, ICE

PEN1171, Water Aerobics
2 hrs., 1 cr.
$5.00 lab fee
This course is designed and organized so students can maintain and/or improve their health and fitness. Instruction in water exercises will contribute to the strength, flexibility, and cardiovascular endurance of the student. NOTE: Swimming skills are not a prerequisite.

+PEN1172, Fitness Swim
2 hrs., 1 cr.
$5.00 lab fee
Prerequisite: PEN1121 or complete basic water skills test the first day of class.
This course is a noncompetitive but structured lap-swim program combined with stroke analysis and training techniques. The course is designed so students can maintain and/or improve their health and fitness.

+PEN2136, Basic Skin and SCUBA Diving
6 hrs., 3 crs.
$125.00 lab fee
Prerequisite: Student must pass a basic water skills test the first class meeting.

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This course provides an orientation and introduction to physics of diving; anatomy; barotrauma, decompression sickness and decompression tables; general diving and scuba operation and maintenance; diving first aid and CPR; dive planning, environment and marine life.

+PEN2137, Advanced SCUBA Diving
4 hrs., 2 crs.
$125.00 lab fee
(The lab fee covers one offshore training dive and class materials). Each student must provide all of his/her own equipment or make arrangements for rental of equipment. A medical form is required and any history of heart or respiratory problems will require a doctor's exam.
Prerequisite: Open water scuba certification from a recognized certifying agency. The student will have logged a minimum of 10 open water dives prior to taking this class. Students must be at least average swimmers and comfortable in the water. A preliminary swimming evaluation will be made.
Topics include underwater navigation, night, low visibility, current, river and deep diving, stie evaluation, dive planning, equipment, medical aspects and search and recovery. Six open water dives are required during this course.

+PEN2138, Rescue Diver
4 hrs., 2 crs.
$125.00 lab fee
The lab fee covers all classroom materials, text books and manuals, and certification materials after successful completion of open water sessions. Certificates include NAUI Rescue Diver and DEMP (Diver Emergency Management Provider) from the Divers Alert Network DEMP is a four course package that includes Oxygen First Aid for Dive accidents, Neurological Assessment, Hazardous Marine Life First Aid, and Basic Life Support.
Prerequisite: Advanced SCUBA, pool skill evaluation and each student must provide all of his/her own equipment suitable for open water or make arrangements for rental of equipment. A medical form is required and any history of heart or respiratory problems will require a doctor's exam. The course covers all academics, pool sessions, and open water skill sessions necessary for certification. Topics will include but not be limited to: identifying emergency situations, self-rescue, buddy team rescues, identifying stress, reaction to panic, and prevention techniques. Practice skills to include but not be limited to self-rescue, diver assists, surface and subsurface rescues, beach and boat extrications, and victim management.

PEO - PHYSICAL EUCATION ACTIVITIES (PROFESSIONAL), OBJECT CENTERED, LAND

PEO2003, Sports Officiating
3 hrs., 3 crs.
This course is designed to provide students with a working knowledge of sports officiating through the use of lecture, videos, and practical experience. Interpretation of rules from a selection of sport activities will be included. This course will count as an academic elective.

PGY – PHOTOGRAPHY

PGY2801C, Digital Photography I
6 hrs., 3 crs.
$71.00 lab fee
Basic photographic composition and photographic skills; operation of the digital camera; techniques of computer manipulation; printing; and history and criticism of photography approaches as they relate to personal expression. (First priority will be given to students whose program requires photography.)

+PGY2802C, Digital Photography II
6 hrs., 3 crs.
$71.00 lab fee
Prerequisite: PGY2801C.

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Intermediate photographic composition and photographic skills; intermediate and advanced techniques of computer manipulation; printing; and history and criticism of photography approaches as they relate to personal expression (First priority will be given to students whose program requires photography.)

PHH – PHILOSOPHY, HISTORY OF

+*PHH2060, Introduction to Classical Philosophy
3 hrs., 3 crs.
Prerequisite: ENC1101 with a minimum grade of "C." (Meets Philosophy/Religion Humanities requirement.)
This course is an introduction to the aims and methods of philosophy through a survey of Western thought from the ancient through the medieval world. The course deals with major philosophical problems as treated in the works of such philosophers as Plato, Aristotle, Augustine, and Aquinas This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

PHI – PHILISOPHY

+*PHI2002, Introduction to Modern and Contemporary Philosophy
3 hrs., 3 crs.
Prerequisites: ENC1101 and PHI2010 or PHH 2060 with a minimum grade of "C."
(Meets Philosophy/Religion Humanities requirement.)
This course presents an in-depth focus into modern and contemporary philosophy. Through a variety of selected readings the student will be introduced to some of the major philosophies and philosophers from the modern and contemporary periods. This course is a Gordon Rule writing course in which student will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*PHI2010, Introduction to Philosophy
3 hrs., 3 crs.
Prerequisite: ENC1101 with a minimum grade of "C." (Meets Philosophy/Religion Humanities requirement.)
This is a foundation course in philosophy. Students will learn about topic such as epistemology, metaphysics, and ethics. The course introduces the methods of philosophy, addresses some major philosophical questions and examines the views of various philosophers from around the world. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and requires completion with a minimum grade of "C."

+*PHI2600, Ethics
3 hrs., 3 crs.
Prerequisite: ENC1101 with a minimum grade of "C." (Meets Philosophy/Religion Humanities requirement.)
This course is a critical evaluation of the major theories of moral values. Throughout the course, emphasis is on the application of theory to contemporary ethical problems. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*PHI2635, Biomedical Ethics
3 hrs., 3 crs.
Prerequisite: ENC1101 with a minimum grade of "C." (Meets Philosophy/Religion Humanities requirement.)
A study of the controversial ethical issues that arise within the practice of medicine and within biomedical research. Case studies and thought experiments will be used to explore the moral and professional responsibilities of those working in the medical profession. Topics include patient relationship, abortion, infertility, genetics, cloning, euthanasia, organ transplant and health care reform. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

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PHT – PHYSICAL THERAPY

+#PHT1000, Introduction to Physical Therapy
2 hrs., 2 crs.
Prerequisite: Acceptance into PTA program.
This course provides an introduction to the history, present practice, and future trends of the physical therapy profession. An introduction to the team concept in health care including the role and responsibilities of the physical therapist assistant will be discussed. Students will also be presented with: an examination of legal and ethical issues related to the practice of physical therapy, patient's rights and responsibilities, confidentiality of patient information, discussion of structure and services of the American Physical Therapy Association, reimbursement systems and fiscal considerations of providers and consumers of physical therapy services, quality assurance and assessment in the delivery of physical therapy, and basic communication techniques.

+#PHT1102, Applied Anatomy for PTAs
2 hrs., 2 crs.
Corequisites: BSC2085, BSC2085L.
This is a course for PTA students that reviews musculoskeletal, neuromuscular, and basic anatomical concepts. Functional anatomy will include the study of human joints, muscles, ligaments, and functional human motion. Application of anatomical concepts to physical therapy procedures will also be introduced. Examination of these concepts will include: coordinated muscle functional and neuromuscular control. This is a preparatory class for PHT1124.

+#PHT1124, Functional Human Motion
2 hrs., 2 crs.
Prerequisites: BSC2085, BSC2085L, PHT1102.
Functional Human Motion is a course designed for PTA students to review musculoskeletal, neuromuscular, and basic anatomical concepts. Functional mechanics, planes, and other relationships will be explored as they relate to joints, muscles, ligaments, and human body movement. Also includes the study of basic kinesiological/-biomechanical principles and their application to human movement such as analysis of normal movement patterns, posture, and gait. This course will focus on the axial skeleton, appendicular skeleton, and will explore anatomical concepts as they relate to the field of physical therapy.

+#PHT1124L, Functional Human Motion Lab
4 hrs., 2 crs.
Corequisite: PHT1124.
A laboratory course offering practice in the application of principles presented in PHT1124 in movement, posture, and gait analysis and measurement. Focus on the development of sound application of kinesiological and biomechanical concepts to human movement and on the development of keen and effective visual and manual observational skills, surface anatomy, and palpation.

+#PHT1131, Assessment, Measurement, and Documentation
1 hr., 1 cr.
Prerequisite: HSC1531.
Introduction to medical record keeping. Documentation skills, including SOAP notes, narrative notes, and computerized documentation systems. Reading and interpreting a physical therapy evaluation. Concepts of measurement, assessment, and recording of flexibility, strength, function, balance, endurance, pain, neurological deficit and sensation, segmental length, girth, and volume.

+#PHT1131L, Assessment, Measurement, and Documentation Lab
4 hrs., 2 crs.
Corequisite: PHT1131.
A laboratory course designed to practice principles presented in PHT 1131. Reading and interpreting medical records and examination of a variety of evaluation and assessment forms. Practice in documentation skills, goniometry, muscle testing, neurological and sensory testing, coordination, and functional assessment.

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+#PHT1200, Basic Skills in Patient Care
2 hrs., 2 crs.
Corequisite: PHT1000.
Introduction to basic patient care skills; moving, lifting, and transferring patients; patient positioning and draping; preparation of treatment area; medical asepsis and infection control; body mechanics; wheelchair operation and adjustment; identification of architectural barriers; safety issues in patient care and transport; fitting and application of selected adaptive devices; introduction to activities of daily living; bed mobility skills; vital signs, and range of motion.

+#PHT1200L, Basic Skills in Patient Care Lab
4 hrs., 2 crs.
$29.00 lab fee
Corequisite: PHT1200
A laboratory course designed for practice in the basic patient care skills presented in PHT 1200. The focus is on the development of safe and competent patient and equipment handling skills.

+#PHT1220, Introduction to Therapeutic Exercise
3 hrs., 3 crs.
Prerequisites: PHT1200, PHT1200L.
Introduction to the types and effects of exercise; rationale for and functional basis of exercises and techniques employed for therapeutic reasons; use and maintenance of a variety of exercise equipment; exploration of the concepts of lifespan fitness and wellness.

+#PHT1220L, Therapeutic Exercise Lab
4 hrs., 2 crs.
$17.00 lab fee
Corequisite: PHT1220.
A laboratory course designed to develop skill in the application of the concepts and techniques of exercise therapy presented in PHT 1220. Hands-on experience with a variety of exercise equipment and practice in performing, assisting, and teaching of therapeutic exercises.

+#PHT2203, Manual Techniques I
3 hrs., 3 crs.
Corequisite: PHT2203L
This course will provide the student with an in-depth view of the history, theory, terminology, physiology, pathology, and basic techniques of massage used during different stages of the rehabilitation process. Course includes aspects of ethics, law, business, and marketing in the field of massage.

+#PHT2203L, Manual Techniques I Lab
4 hrs., 2 crs.
Corequisite: PHT2203.
This course provides the student a laboratory experience to practice Swedish and structural based therapeutic massage techniques in a supervised setting.

+#PHT2204, Manual Techniques II
3 hrs., 3 crs.
Prerequisites: PHT2203 and PHT2203L
Corequisite: PHT2204L.
This course explores advanced techniques by further developing the student's use and integration of structural-based and energy-based systems. Topics will include trigger point therapy, myofascial release, and other advanced therapy applications.

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+#PHT2204L, Manual Techniques II Lab
4 hrs., 2 crs.
$17.00 lab fee
Prerequisites: PHT2203 and PHT2203L
Corequisite: PHT2204
This course is an advanced laboratory experience providing hands-on techniques and sequences to balance the various energy patterns of the physical body in a supervised setting.

+#PHT2208, Clinical Practicum in Manual Techniques II
65 hrs., 1 cr.
Prerequisites: PHT2803.
Corequisite: PHT2204, PHT2204L.
This course provides a clinical experience which includes delivery of hands-on techniques and sequences to balance the various energy patterns of the body to patients in a supervised setting. May be repeated 2 times for credit.

+#PHT2211, Therapeutic Modalities
2 hrs., 2 crs.
Prerequisites: PHT1220, PHT1220L.
Study of the physical principles, physiological effects, indications, raindications, and rationales in the use of therapeutic heat, cold, light, water, pressure, traction, electricity, and massage in the treatment of specific clinical symptoms. Wound care with modalities. Use, maintenance, and safety inspection of equipment. Disinfection and sterilization of materials and equipment and infection control.

+#PHT2211L, Therapeutic Modalities Lab
4 hrs., 2 crs.
$17.00 lab fee
Corequisite: PHT2211.
A laboratory course designed to develop competencies in the application of therapeutic modalities discussed in PHT 2211. Positioning, draping, and safety precautions in the use of all modalities will be a strong focus.

+#PHT2224, Therapeutic Interventions I: Medical/Surgical Disabilities
2 hrs., 2 crs.
Prerequisites: PHT1220, PHT1220L, PHT1131, PHT1131L.
Exploration of basic pathological processes in body systems and their clinical signs and symptoms in physical disabilities associated with selected medical/surgical conditions. Relationships between pathological conditions and their prognosis and treatment. Pharmacological aspects of treatment with implications for physical therapy treatment. Basic wound care techniques.

+#PHT2224L, Therapeutic Interventions I Lab
2 hrs., 1 cr.
Corequisite: PHT2224.
Laboratory course designed to develop skill in the application of concepts presented in PHT2224. Practice in performing, assisting, teaching, and documenting therapeutic exercises and treatment techniques for selected medical/surgical disabilities.

+#PHT2225, Therapeutic Interventions II: Orthopedic Disabilities
3 hrs., 3 crs.
Prerequisites: PHT2224, PHT2224L.
Exploration of basic pathological processes in body systems and their clinical signs and symptoms in physical disabilities associated with selected orthopedic disabilities. Relationships between pathological conditions and their prognosis and treatment. Pharmacological aspects of treatment with implications for physical therapy treatment.

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*Minimum grade of "C" required.

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+#PHT2225L, Therapeutic Interventions II Lab
4 hrs., 2 crs.
Corequisite: PHT2225.
This is a laboratory course designed to develop skill in the application of concepts presented in PHT 2225. Practice in performing therapeutic exercises and treatment techniques for selected orthopedic disabilities.

+#PHT2226, Therapeutic Interventions III: Neurological Disabilities
3 hrs., 3 crs.
Prerequisites: PHT2224, PHT2224L.
Exploration of basic pathological processes in body systems and their clinical signs and symptoms in physical disabilities associated with selected neurological conditions. Relationships between pathological conditions and their prognosis and treatment. Pharmacological aspects of treatment with implications for physical therapy treatment.

+#PHT2226L, Therapeutic Interventions III Lab
4 hrs., 2 crs.
Corequisite: PHT2226.
This is a laboratory course designed to develop skill in the application of concepts presented in PHT2226. Practice in performing, assisting, teaching, and documenting therapeutic exercises and treatment techniques for selected neurological disabilities.

+#PHT2801, PTA Clinical Practice I
12 hrs., 3 crs.
$17.00 lab fee
Prerequisites: PHT2211, PHT2211L.
Students are assigned to an agency providing physical therapy services for an introductory (full-time, 40 hours/week for 4 weeks) experience in the application of skills learned in the classroom to patients in the clinical setting. Students implement PT treatments and perform specific clinical tasks under the close supervision of a physical therapist. This is an introductory experience and emphasis is on developing ease in the moving and handling of patients; confidence in communicating and interacting with staff, patients, and their families; sharpened powers of observation; and an understanding of the role of the physical therapist assistant. A Patient Care Study is completed along with pertinent literature review. Grade mode: pass/fail.

+#PHT2803, Clinical Practicum in Manual Techniques I
60 hrs., 1 cr.
$33.00 lab fee
Prerequisite: PHT2803.
Corequisite: PHT2204, PHT2204L.
This course provides a clinical experience which includes application of Swedish and structural based therapeutic massage techniques to patients in a supervised setting. May be repeated 1 time for credit.

+#PHT2810, PTA Clinical Practice II
40 hrs., 5 crs.
Prerequisite: PHT2801. Corequisite: PHT2931.
An intermediate level, full-time clinical placement (40 hours/ week for 7 weeks) designed to be an in-depth experience in the delivery of physical therapy services to patients in a clinical setting. It is a supervised experience in the application of academically acquired knowledge. Problem-solving techniques are employed in the interpretation and execution of patient care plans. An in-depth patient care study will be completed, and students will prepare and give an in-service to the facility staff.
Grade mode: pass/fail.

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+#PHT2820, PTA Clinical Practice III
40 hrs., 5 crs.
Prerequisite: PHT2810. Corequisite: PHT2931.
This course is an advanced level, full-time clinical placement (40 hours/week for 7 weeks) designed to be an in depth experience in the delivery of physical therapy services to patients in a clinical setting. Although a supervised experience in the application of academically and clinically acquired knowledge, emphasis will be on the students' developing more autonomy in patient care and more independence in involvement with the entire scope of physical therapy services from clerical to patient scheduling and treatment to department maintenance.   Also of emphasis will be a continuation of the development of critical thinking, problem-solving, and communication/teaching skills. An in depth patient care study will be completed and a quality assurance study will be conducted. Grade mode: pass/fail.

+#PHT2931, Seminar
2 hrs., 2 crs.
$35.00 lab fee
Corequisites: PHT2810, PHT2820.
This course is designed to broaden the scope of the student's understanding of clinical practice. Relationship of clinical research to clinical practice. Reading and review of professional literature in physical therapy or related fields. Conduction and presentation of patient care studies. Responsibilities for continuing education and professional development and quality assurance. Licensure issues. Job skills such as resumes and interview techniques. Reviewing for final competency exam and licensing exam preparation. Presentation of in-service and quality assurance projects. Final comprehensive exam.

PHY – PHYSICS

PHY1020, Basic Concepts of Physics
This is a basic overview course presenting physics concepts with a minimum emphasis on mathematics. As a conceptual course, it is designed to help students develop a clear and logical understanding of the fundamental physics principles to include motion, gravity, vectors, momentum, energy, vibrations, waves, heat and thermodynamics. Further, it will include practical examples that demonstrate the role of physics in other disciplines.

+PHY1023, Survey of General Physics
3 hrs., 3 crs.
Prerequisite: MAC1140, MAC1114.
A conceptual approach to physics with emphasis on problem solving. This course is designed for students who plan to take PHY2048 and have had no previous physics course.

+PHY2048, University Physics I
4 hrs., 4 crs.
Prerequisites: MAC2311, PHY1023 or equivalent.
Corequisite: MAC2312, PHY2048L.
A study of mechanics and simple harmonic motion at the calculus level with engineering applications.

+PHY2048L, University Physics I Laboratory
3 hrs. 1 cr.
$11.00 lab fee
Corequisite: PHY2048 or consent of instructor.
Investigation of lecture-related materials with an emphasis on the relationship of theoretical concepts to realistic measurements.

+PHY2049, University Physics II
4 hrs., 4 crs.
Prerequisites: PHY2048, MAC2312.
Corequisite: PHY2049L.
A continuation of PHY2048 involving selected topics from sound, thermodynamics, optics, electricity, and magnetism.

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+PHY2049L, University Physics II Laboratory
3 hrs. 1 cr.
$12.00 lab fee
Corequisite: PHY2049 or consent of instructor.
A continuation of PHY2048L.

+PHY2053, College Physics I
3 hrs., 3 crs.
Prerequisite: MAC1140, MAC1114.
Corequisite: PHY2053L.
Selected topics from mechanics and thermodynamics. Application is towards nonengineering fields.

+PHY2053L, College Physics I Laboratory
2 hrs., 1 cr.
$10.00 lab fee
Corequisite: PHY2053 or consent of instructor.
Laboratory work involves investigation of lecture-related materials and alternative approaches to problem solving.

+PHY2054, College Physics II
3 hrs., 3 crs.
Prerequisite: PHY2053. Corequisite: PHY2054L.
A continuation of PHY2053 involving selected topics from mechanics, wave motion, sound, optics, electricity, magnetism, and atomic physics.

+PHY2054L, College Physics II Laboratory
2 hrs., 1 cr.
$13.00 lab fee
Corequisite: PHY2054 or consent of instructor.
A continuation of PHY2053L.

PLA – PARALEGAL/LEGAL ASSISTANT/LEGAL ADMINISTRATON

+PLA1104, Legal Writing and Research I
3 hrs., 3 crs.
Prerequisite: ENC1101.
Introduction to legal research, including citation form, reading and finding case law, reading and finding statutes, legislative history, reading and finding constitutional law, finding administrative law, finding court rules, finding local rules, loose-leaf services, secondary references, computer research, and ethical considerations.

#PLA1203, Civil Practice and Procedure I
3 hrs., 3 crs.
The study of judicial systems and corresponding rules of civil procedure, including basic procedures involved in the preparation, litigation, and appeal of cases; preparation for and the taking of depositions; preparing complaints, answers, and interrogatories; and summarizing case details for trial.

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#PLA1423, Contract Law
3 hrs., 3 crs.
This course focuses on contracts, specifically the substantive and remedial aspects of business agreements, including offer, acceptance, consideration, third-party beneficiaries, assignments, Statute of Frauds, legality, performance, debtor and creditor relations, sales and secured transactions.

+#PLA2114, Legal Writing and Research II
3 hrs., 3 crs.
Prerequisite: PLA1104.
Study of format and purpose of legal memorandum; study of form for legal citation and law office correspondence; preparation of legal instruments and documents; drafting intra-office memorandums; and ethical considerations.

PLA2190, Legal Reasoning
3 hrs., 3 crs.
This course focuses on judgment and analytical thinking, including legal analysis, deductions, and categorization of facts and evidence; legal ethics and professional responsibility; and effective communications, including interviews and investigation of legal issues.

+#PLA2223, Civil Practice and Procedure II
3 hrs., 3 crs.
Prerequisite: PLA1203.
In depth study of Florida rules of civil procedure. Florida Appellate rules, and Florida rules of summary procedure with emphasis on application to assist lawyers in commencement of lawsuit, discovery, settlement, trial, appeal, and collection of judgments.

PLA2308, Criminal Procedure
3 hrs., 3 crs.
Study of development of criminal procedures and Constitutional safeguards, including rights to counsel, bail, search and seizure, arrest, identification, trial, and post-trial proceedings.

#PLA2433, Corporations, Partnerships, and Agency Law
3 hrs., 3 crs.
This course examines the nature, formation, financial structure, management structure, and dissolution of corporations; the formation, operation, and dissolution of partnerships and limited liability companies; and the relationship of principal and agent with third parties.

PLA2600, Wills, Trusts, and Probate
3 hrs., 3 crs.
The study of probate practices and procedures and the legal aspects of drafting wills, preparing guardianships and trusts, and administering estates.

PLA2610, Real Property Law I
3 hrs., 3 crs.
Study of laws relating to common types of real estate transactions, including conveyances, deeds, racts, and leases, with emphasis on the construc-tion of each document.

PLA2800, Family Law
3 hrs., 3 crs.
The law of family relations, including the study of divorce, separation, custody, adoption, and court procedures applicable to each.

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PMT – PRECISION METALS TECHNOLOGY

+#PMT2213C, Advanced Machining I
4 hrs., 3 crs.
$45.00 lab fee
Prerequisite: ETI2001C.
This course concentrates on the lathe series of machines and includes set-up, centering, turning, facing, filing, polishing, burning, thread cutting, and other processes common to the lathe series.

+#PMT2214C, Advanced Machining II
4 hrs., 3 crs.
$11.00 lab fee
Prerequisite: ETI2001C.
This course concentrates on vertical milling machines and includes set-up and procedures for various types of surfaces as key-seats. It also includes milling procedures using the dividing head and rotary table.

+#PMT2250C, CNC Programming I
4 hrs., 3 crs.
$45.00 lab fee
Prerequisite: PMT2214C.
This course introduces multiple axis CNC Mill machining and develops the theory of programming in the classroom with applications of the program accomplished on industry-type machines. Studies consist of terminology of coordinates, cutter paths, angle cutting, and linear and circular interpolation.

+#PMT2254C, CNC Programming II
4 hrs., 3 crs.
$16.00 lab fee
Prerequisite: PMT2250C.
This course expands on the CNC Programming I course, providing further study in computer-aided numerical control programming of CNC lathes. It concentrates on the lathe series of machines and includes set-up, centering, turning, facing, filing, polishing, burning, thread cutting and other processes common to the lathe series.

POS – POLITICAL SCIENCE

POS2041, American National Government
3 hrs., 3 crs.
A comprehensive examination of the theory, practice, ideals, and realities of government and politics in the United States. Major areas of study include behavior and participation, the legislative process, the presidency, the judicial process, and the administrative state.

POS2112, State and Local Government
3 hrs., 3 crs.
The course is a study of state and local forms of government. Throughout the course, the government of Florida is used as an example of activities and patterns of state government. The responsibilities of local government at the county and city levels are explored during the course.

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PRN – PRACTICAL NURSING

+=PRN0001C, Fundamentals of Nursing Care
270 contact hrs., 9 vocational crs.
$15.00 lab fee
Prerequisite: HCP0120C.
This is a basic knowledge and skills course designed to orient the student to the Practical Nursing occupation. The course encompasses the nursing principles and the role of the practical nurse in assisting the professional nurse with the five basic steps of gathering information, identifying problems, formulating tentative solutions, planning action or intervention, and evaluating. The role of the practical nurse in the assessment phase will also be defined.

+=PRN0022, Structure and Function
60 contact hrs., 2 vocational crs.
Prerequisite: PRN0001C.
This course covers normal structure and function and provides the student with a basic foundation on which to build subsequent learning involving human structure and function normalities and abnormalities. Medical terminology for each system is integrated throughout the course.

+=PRN0023, Life Span
15 contact hrs., .5 vocational crs.
Prerequisite: PRN0030C.
This course provides learning experiences in normal human growth and development from birth to death. It provides the basis for the student to improve behavioral aspects of nurse/client relationships and to better understand the physical and behavioral problems of clients. Emphasis has been placed on the influences that promote normal growth and development.

+=PRN0030C, Introduction to Pharmacology/Medication Administration with Safe Dose Calculations
75 contact hrs., 2.5 vocational crs.
$8.00 lab fee
Prerequisites: HCP0001, HCP0120C, PRN0001C, PRN0022, HSC0530.
This course is designed to provide the practical nursing student with a basic background of drugs, including their actions, dosages, and side effects. Prototypes for each classification will be discussed. The basic knowledge
gained in this course will equip the student with information to assume responsibility for safe medication administration. To safely handle the drugs that are entrusted to the practical nurse requires a working knowledge and skills equal to the responsibilities. Students will learn how to write and understand the symbols and numbers used in the measurement of medication, to convert units of measurement within the systems of measurement from one system to another, and to calculate amounts of medication to give a client from the medication on hand.

+=PRN0100C, Maternal/Newborn Nursing
120 contact hrs., 4 vocational crs.
$42.00 lab fee
Prerequisite: PRN0383C.
This course is designed to assist the student in understanding the needs of the expectant mother, infant, and family from the beginning of pregnancy through the child-bearing period. The focus of this course is on the promotion and maintenance of health. Emphasis will be placed on the impact to normal family life.

+=PRN0110C, Pediatric Nursing
90 contact hrs., 3 vocational crs.
Prerequisite: PRN0100C.
This course is designed to assist the student in understanding the needs of the ill and hospitalized pediatric client and to understand the needs of children as they grow and develop. The focus of this course is on the promotion and maintenance of health in the ill pediatric client.

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+=PRN0381C, Medical-Surgical Nursing I
210 contact hrs., 7 vocational crs.
$8.00 lab fee
Prerequisite: PRN0440.
This course introduces medical and surgical nursing as specialties. The focus is on the adult client who is experiencing disturbances of body supportive structures, threats to adequate respiration, insults to cardiovascular integrity, disturbances of sexual structure or reproductive function, and problems resulting from endocrine imbalances.

+=PRN0383C, Medical-Surgical Nursing II
300 contact hrs., 10 vocational crs.
Prerequisite: PRN0381C.
This course inues with the nursing care of the adult client. The focus is on adults who are experiencing disorders of the cognitive, sensory, or psychomotor function; disturbances of ingestion, digestion, absorption, and elimination; and common problems involving disfigurement.

+=PRN0400, Mental Health Concepts
15 contact hrs., .5 vocational crs.
Prerequisite: PRN0100C.
This course focuses on interpersonal relationships. It is designed to orient the student to mental health concepts and the practical nursing occupation and to increase the student's awareness of the importance of the interrelationship of physical and emotional needs of the client.

+=PRN0440, Community Health Concepts
15 contact hrs., 5 vocational crs.
Prerequisite: PRN0400.
The community health concepts within this course provide an introduction to community health issues. The nursing process provides a framework for understanding the common health problems within the community and the illnesses that bring the client to the hospital or health care agency. The care of a client in a hospice setting will also be introduced.

PSY – PSYCHOLOGY

PSY2012, General Psychology
3 hrs., 3 crs.
This course is a study of the general field of psychology and is designed to provide an understanding of human behavior by studying the adaptation of the individual to the physical and social environment.

+PSY2930, Special Topics in Psychology
3 hrs., 3 crs.
Prerequisite: PSY2012.
This course will cover a variety of special topics for students who wish to further explore the field of psychology. Students will explore the application of psychological theories and principles to areas ranging from popular culture to real world problems and concerns.
(May be repeated once for a total of six credits.)

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PTN – PHARMACY TECHNICIAN

+#PTN1101, Introduction to Pharmacy Technician Practice
3 hrs., 3 crs.
Prerequisites: Admission to the Pharmacy Technician Program.
This course highlights the practice and role delineation of the pharmacist and the pharmacy technician in the drug delivery system. Administrative, professional, and legal aspects, educational requirements, standards and regulations, issue related to credentialing, quality assurance, concepts/procedures, and an overview of pharmaceutical operations in patient care services will be addressed.

+#PTN1102, Pharmacy Calculations for Technicians
3 hrs., 3 crs.
Prerequisite Admission to the Pharmacy Technician Program.   The student learns the basic terminology, abbreviations and units, and appropriate weights and measures needed to perform pharmaceutical calculations. Apothecary, avoirdupois, metric and household systems are an essential component of this course. Review of calculations dealing with decimals, fractions, ratio and proportion, percentages, ratio strength, reducing and enlarging formulas, percent solutions, IV drip rates and dilution and concentration problems are presented.

+#PTN1121, Pharmacological Agents I
3 hrs., 3 crs.
Prerequisites: Admission to the Pharmacy Technician Program.
This course provides practical knowledge of pharmacology for the pharmacy technician. Topics include: pharmaceutical nomenclature and classification. Abbreviations, pronunciation, product identification, storage and dispensing requirements, dosage forms, mechanisms of drug actions, interactions, indications and contraindications, side effects, and routes/methods of administering therapeutic agents in various systems of the body.

+#PTN1122, Pharmacological Agents II
3 hrs., 3 crs.
Prerequisites Admission to the Pharmacy Technician Program.
This course provides advanced knowledge of pharmacology and pharmaceutical practice. Topics include a systematic approach to therapeutic agent names, their indications and contraindications, mechanisms of action and side-effects, and methods of administration of therapeutic agents in various systems of the body. The benefits and disadvantages of over-the-counter and nonprescription medications, are also covered.

+#PTN1131, Applied Pharmacy Operations
3 hrs., 3 crs.
Prerequisite: PTN1101. Corequisite: PTN1131L.
This course provides instruction relative to practical exercises in an online setting prior to actual on-site rotations at affiliated training sites. Topics include: collection and organization of patient data, order entry processes, medication distribution systems, inventory, prescription processing, labeling, billing, repackaging, floor stock and controlled substance distribution, pharmaceutical computer systems, utilization of drug information resources, and proper communications techniques. The purpose of this course is to prepare participants for the pharmacy technician practicum.

+#PTN1131L, Applied Pharmacy Operations Lab
2 hrs,. 1 cr.
$35.00 lab fee
Prerequisites: PTN1101. Corequisite: PTN1131.
This course provides practical experience in a laboratory setting prior to actual on-site rotations at affiliated training sites. Topics include: collection and organization of patient data, order entry processes, medication distribution systems, inventory, prescription processing, labeling, billing, repackaging, floor stock and controlled substance distribution, pharmaceutical computer systems, utilization of drug information resources, and proper communications techniques. The purpose of this course is to prepare participants for the pharmacy technician practicum.

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+#PTN1940, Pharmacy Technician Practicum
300 hrs., 7 crs.
Prerequisites: PTN1101, PTN1121, PTN1122, PTN1131, PTN1131L.
This course provides practical experience for the pharmacy technician student in a working pharmacy environment.

QMB – QUANTITATIVE METHODS IN BUSINESS

#QMB1001, College Business Mathematics
3 hrs., 3 crs.
Prerequisite: Math placement test or minimum grade of "C" in MAT0012 or MAT0055 or MAT0056. Flexible Placement – High School 000 or Flexible Placement - Military 000 or PERT-Mathematics 114 or Accuplacer-Mathematics 072 or ACT Math 19 or SAT Mathematics 440 or Undergraduate level MAC XXX1 Minimum Grade of D.
A study of the practical application of mathematics to business transactions and calculations, such as percentage, interest, discounts, markups, and commissions, pricing, payrolls, depreciation, and inventory turnover and costing. Emphasis is given to short methods of calculation and verification.

REA - READING

College Preparatory Reading

The following are developmental courses not intended to satisfy any part of the college-level reading requirements and do not count as part of the required hours for graduation. A minimum grade of "C" is required to progress to the next course.

REA0007, Developmental Reading I
4 hrs., 3 crs.
$5.00 lab fee
The first level of an intensive improvement program designed to upgrade each student's level of reading comprehension. Required of students who score below the prescribed state levels on the Gulf Coast State College placement test. Must be passed with a minimum grade of "C." (A developmental course that does not satisfy General Education requirements or count toward required hours for graduation.)

+REA0017, Developmental Reading II
4 hrs., 3 crs.
$5.00 lab fee
Prerequisite: Satisfactory score on the Gulf Coast State College placement test or completion of REA0007 with a minimum grade of "C."
The second level of an intensive improvement course designed to upgrade each student's level of critical reading and thinking skills. Must be passed with a minimum grade of "C." (A develop-mental course that does not satisfy General Education requirements or count toward required hours for graduation.)

+*REA0019, Developmental Reading I and II Combined
4 hrs., 3 crs.
$5.00 lab fee
Prerequisite: Option for students who score below the prescribed state levels on the placement test. Must be passed with a minimum grade of "C." This course is a developmental course that is not intended to satisfy any part of General Education requirements and is not counted as part of the required hours for graduation. An intensive reading course designed to imporve each student's level of comprehension and critical thinking skills.

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+*REA0055L, Developmental Reading Lab Support
2 hrs., 1 cr.
Prerequisite: Non-exempt students earning a PERT score of 86-105 and exempt students earning a PERT score of 50-105 or by faculty advisement should take REA0055L. A reading lab course taken concurrently with ENC1101, intended to improve a student's level of comprehension and critical thinking skills. Must be passed with a minimum grade of "C."

College-Level Reading

+REA2205, College-Level Reading Techniques
3 hrs., 3 crs.
Prerequisite: Eligibility for ENC1101.
Techniques of increasing reading speed, expanding vocabulary, and heightening comprehen-sion level. Designed for students who wish to improve their college-level reading skills. Qualifies as an elective course in the A.A. degree program and as an English requirement in some A.S. degree programs.

REE – REAL ESTATE

#REE1040, Real Estate Principles, Practices, and Law
4 hrs., 4 crs.
(Required by the Real Estate Commission for eligibility to take the salesman's exam.) A study of the accepted principles and practices in real estate. field. The nature of the business, real estate ownership, racts, titles, deeds, costs and mortgages instruments discussed for an overall view of present practices. A presentation of real property ownership and the principal commercial and financial transactions involved. Includes real estate law.

+#REE2041, Real Estate Broker
5 hrs., 5 crs.
Prerequisite: Approval by the Real Estate Commission.
(Required by the Real Estate Commission for eligibility to take the broker's exam.) A study of brokerage, advertising, selling, property insurance, real estate instru-ments, liens, leases, property management, plan reading, city planning and zoning.

+#REE2081, License Renewal
1 hr., 1 cr.
Prerequisite: Hold real estate salesman's or broker's license.
New and updated information to real estate personnel. Meets license renewal requirements.
+#REE2085, Post-Licensure Course for Salesmen
3 hrs., 3 crs.
Prerequisite: Real Estate Salesman registered after January 1, 1989.
Real estate finance, appraising, property management, and the economics of real estate. (Meets license renewal requirements.)

#REE2180, FREAB Licensed Residential Appraisal Course I
5 hrs., 5 crs.
A thorough coverage of the residential appraisal process. Includes uniform standards of professional appraisal practices, an introduction to property, bundling of property rights, interest in property of others, transfer of property interests, deeds, real estate racts, mortgage racts, lending, and underwriting, introduction to market analysis, appraisal mathematics, preliminary analysis, site and improvement analysis, compara-ble-sales analysis, cost-depreciation analysis, appraisals of attached and manufactured housing, and appraisal reports. (Successful completion is necessary to obtain certification as a Registered/Licensed Appraiser in Florida.)

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*Minimum grade of "C" required.

+#REE2302, FREC Post-Licensing Broker's Course II
2 hrs., 2 crs.
Prerequisite: Hold current Florida Real Estate Broker's license.
Provides new and updated information on investment and finance. (Brokers licensed after January 1, 1989, must successfully complete the course to renew broker's license.)

REL – RELIGION UNDERGRADUATE

+*REL2000, Introduction to Religion
3 hrs., 3 crs.
Prerequisite: ENC1101 with a minimum grade of "C." (Meets Philosophy/Religion Humanities requirement.)
Introduction to the academic study of religion. The student will investigate a wide range of religious phenomena from the major world religious traditions. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*REL2121, Introduction to Religion in America
3 hrs., 3 crs.
Prerequisite: ENC1101 with a minimum grade of "C." (Meets Philosophy/Religion Humanities requirement.)
This course is an historical inquiry into the ideological origins and social context of American religious life. Emphasis is placed upon the rich diversity of American religious life through an examination of American originals (e.g., native Americans, Mormons, Christian Scientists, Seventh-Day Adventists), imported religions (e.g., Protestantism, Catholicism, Islam, Judaism, Buddhism), and pop culture religion. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*REL2300, Religions of the World
3 hrs., 3 crs.
Prerequisite: ENC1101 with a minimum grade of "C." (Meets Philosophy/Religion Humanities requirement.)
A study of primitive and the living religions of Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Judaism, Shinto, Zoroastrianism, Islam, and Christianity. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

+*REL2315, Eastern Religions
3 hrs., 3 crs.
Prerequisties: ENC1101.
(Meets Philosophy/Religion Humanities requirement.)
This introductory course surveys a broad range of religious ideas and practices belonging to Eastern traditions of Asia. The survey includes Hinduism, Jainism, Buddhism, Taoism, Cofucianism, and Shinto. Geographically, the foci of this course will be India, China, and Japan. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and which requires completion with a minimum grade of "C."

RET – RESPIRATORY CARE

#RET1004, Introduction to Science I
1 hr., 1 cr.
This one credit course will introduce fundamental principles, theories, and laws of chemistry relevant to the respiratory therapy practitioner.

#RET1005, Respiratory Microbiology
1 hr., 1 cr.
A review of microbiology as it relates to the profession of respiratory care. Topics include microbiological identification, surveillance, and equipment processing.

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+Prerequisite and/or corequisite required.
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+#RET1024, Respiratory Therapy I
2 hrs., 2 crs.
Prerequisite: Program acceptance.
Corequisite: *RET1024L, *RET1832.
This introductory course will cover the practice and basic concepts of respiratory vital signs, patient assessment, medical gas therapy, oxygen therapy, humidity, aerosol, and hyperinflation therapies.

+#RET1024L, Respiratory Therapy I Lab
3 hrs., 3 crs.
$42.00 lab fee
Corequisite: *RET1024, *RET1832.
This lab complements the lecture in RET 1024. This course will introduce the student to the practice and basic concepts of respiratory therapy. Topics will include professional ethics, diversity, licensure and credentialing, infection control, vital signs, patient assessment, medical gas therapy, oxygen therapy, humidity, aerosol, and hyperinflation therapies.

+#RET1264, Respiratory Therapy II
2 hrs., 2 crs.
Prerequisites: *RET1024, *RET1024L, *RET1832.
Corequisites: RET1264L/1272L, RET1833.
This course will cover the theory, practice and mastery of equipment used in hyperinflation therapy, pulmonary mechanics, bronchial hygiene therapies, medication nebulizer therapy, airway care, and arterial blood gas analysis.

+#RET1264L, Respiratory Therapy II Lab
3 hrs., 3 crs.
$70.00 lab fee
Prerequisites: *RET1024, *RET1024L, *RET1832.
Corequisites: RET1264, RET1833.
This lab complements the lecture in RET 1264. Through practice and performance tests the student will demonstrate the mastery of equipment used in Hyperinflation Therapy, Pulmonary Mechanics, Bronchial Hygiene Therapies, Medication Nebulizer Therapy, Airway Care, and Arterial Blood Gas Analysis. Simulations are used to practice information gathering and decision making in respiratory therapy scenarios.

#RET1295, Clinical Respiratory Medicine I
1 hr., 1 cr.
Physician lectures on pulmonary diseases including etiology, detection, treatment, prognosis of a variety of cardiopulmonary diseases.

#RET1350, Pulmonary Pharmacology I
1 hr., 1 cr.
This course will introduce the student to pulmonary pharmacology with primary emphasis on medications used in the field of Respiratory Care. Principles of drug action, bronchodilators, mediator antagonists, and corticosteriods will be covered.

#RET1483, Pulmonary Assessment I
2 hrs., 2 crs.
Physician lectures on patient assessment, physical exams, chest x-rays, breath sounds, ABG, and PFT evaluations.

#RET1485, Pulmonary Physiology
2 hrs., 2 crs.
An introductory course covering the function of the respiratory system including ventilatory mechanics, gas transport, acid base physiology, neural/chemical regulation of breathing, ventilation perfusion relationships, and cardiac anatomy.

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+#RET1832, Respiratory Therapy Clinical I
1 hr., 1 cr.
Corequisites: RET1024, RET1024L.
The primary emphasis for the clinic semester is to allow students the opportunity to become oriented to different clinical facilities, observing as many procedures as
possible. All procedures in the clinical facility require completion of both a lab and clinical competency validation. Any hands on experience requires direct supervision from the clinical instructor and should be limited to hand washing, charting, medical terminology,
basic patient assessment, vital signs, medical gas therapy, humidity, and aerosol.

+#RET1833, Respiratory Therapy Clinical II
2 hrs., 2 crs.
Prerequisites: *RET1024, *RET1024L.
Corequisites: RET1264, RET1264L/1272L.
The primary emphasis for the second clinic semester is for the students to practice hands on skills learned in RET1264L/1272L in the following areas: hyperinflation therapy, pulmonary mechanics, bronchial hygiene therapies, medication nebulizer therapy, airway care, arterial blood gas analysis, and IPPB. All procedures in the clinical facility require completion of both a lab and clinical competency. Any hands on experience require direct supervision from the clinical instructor.

#RET1930, Selected Topics Seminar I
1 hr., 1 cr.
This couse is designed to prepare the student to be a competent member of the resuscitation team, to assess cardiac function via EKG's, hemodynamic monitoring, and rhythm recognition.

#RET1933, Selected Topics Seminar IV
1 hr., 1 cr.
In depth study of selected aspects of respiratory therapy through simulation exercises.

#RET1934, Selected Topics Seminar V
1 hr., 1 cr.
This course provides the student Advanced Cardiac Life Support (ACLS) certification.

#RET1935, Selected Topics Seminar VI
1 hr., 1 cr.
This course will cover the theory, procedures, and selected clinical practice of pulmonary function testing.

#RET1936, Selected Topics Seminar VII
1 hr., 1 cr.
This course will introduce the new and constantly changing concepts and procedures in respiratory care.

+#RET2007, Pulmonary Pharmacology II
3 hrs., 3 crs.
Prerequisite: RET1350.
This course will continue the study of pulmonary pharmacology to include anti-microbial agents, anti-smoking therapy, neonatal and pediatric drug therapy, critical care and cardiovascular drugs.

#RET2234, Critical Thinking in Respiratory Care
1 hr., 1 cr.
This course examines critical thinking, assessment, and evaluation techniques necessary in the development of respiratory care plans and therapist driven protocols. Case studies and simulations will be utilized to enhance learning.

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#RET2280, Respiratory Care IV
2 hrs., 2 crs.
Prerequisites: *RET2878, *RET2878L, *RET2834.
Corequisites: RET2280L, RET2835.
This course will cover advanced modalities of mechanical ventilation wave forms, management of patients in critical care settings, and cardiopulmonary rehabilitation.

+#RET2280L, Respiratory Care IV Lab
3 hrs., 3 crs.
$52.00 lab fee
Prerequisites: *RET2878, *RET2878L, *RET2834.
Corequisites: RET2280, RET2835.
This course will prepare students to perform neonatal and infant assessment by recognizing congenital anomalies and managing infant mechanical ventilation. Lab simulations to practice skills required to pass the Neonatal Resuscitation program.

#RET2292, Clinical Respiratory Medicine II
1 hr., 1 cr.
Physician lectures related to care of patient with more complex respiratory diseases sometimes requiring mechanical ventilation and invasive monitoring techniques. Case studies and simulations will be utilized to enhance learning.

#RET2297, Pulmonary Assessment II
1 hr., 1 cr.
Physician lectures covering assessment of the cardiovascular system, hematology, blood chemistry, and electrolytes.

+#RET2714, Respiratory Care V
2 hrs., 2 crs.
Prerequisites: *RET2280, *RET2280L, *RET2835.
Corequisites: RET2714L, RET2836.
This course will prepare students to perform neonatal and infant assessment by recognizing congenital anomalies and managing infant mechanical ventilation.

+#RET2714L, Respiratory Care V Lab
2 hrs., 2 crs.
$164.00 lab fee
Prerequisites: *RET2280, *RET2280L, *RET2835.
Corequisites: RET2714, RET2836.
This lab will be taught in conjunction with RET 2714.   The course emphasizes the newest equipment and latest techniques used to monitor and treat infant and pediatric patients.   This semester will also serve as a practice lab to review all previous semesters perfecting hands on skills required to perform respiratory care to infant, pediatric, and adult patients.

+#RET2834, Respiratory Therapy Clinical III
2 hrs., 2 crs.
Prerequisites: *RET1264, *RET1264L/1272L, *RET1833.
Corequisites: RET2878, RET2878L.
Emphasis is on critical care procedures, continuous patient monitoring, introduction to mechanical ventilation, review and interpretation of EKG's and ABGs.

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+#RET2835, Respiratory Therapy Clinical IV
2 hrs., 2 crs.
Prerequisites: *RET2878, *RET2878L.
Corequisites: RET2280, RET2280L.
Emphasis is on critical care procedures, mechanical ventilation, review and interpretation of electrocardiogram strips, hemodynamic monitoring, capnography, ventilation waveforms, and management of patients in critical care settings. Interaction is encouraged between the student and other health care providers at the patient's bedside.

+#RET2836, Respiratory Therapy Clinical V
3 hrs., 3 crs.
Prerequisites: *RET2280, *RET2280L, *RET2835.
Corequisites: RET2714, RET2714L.
This course consists of approximately 256 hours of supervised clinical practice of neonates, infant mechanical ventilation, and neonatal resuscitation. In addition, students will continue to perfect the skills and procedures covered in RET1024, RET1264, and RET2878, and RET2280, and RET2280L.

+#RET2878, Respiratory Care III
2 hrs., 2 crs.
Prerequisites: *RET1264, *RET1264L/1272L, *RET1833.
Corequisites: RET2878L, RET2834.
Emphasis in on critical care procedures, continuous patient monitoring, introduction to mechanical ventilation, review and interpretation of EKG's, and ABGS.

#RET2878L, Respiratory Care III Lab
2 hrs., 2 crs.
$58.00 lab fee
Prerequisites: *RET1264, *RET1264L/1272L, *RET1833.
Corequisites: RET2878, RET2834.
This lab is taught in conjunction with RET2878 lecture with skills lab demonstrating correct procedures for the following: continuous patient monitoring, mechanical ventilation, airway management, intubation, extubation, suctioning, O2 therapy, EKG's, and ABGS.

RMI – RISK MANAGEMENT & INSURANCE

#RMI1650, 1651, 1652, 1653, 200 Hour General Line Agent Qualification Course
13 hrs., 13 crs.
A four part course designed to prepare insurance representatives for licensing. Participants must register for all parts of this course to become eligible for the State examination.

Part 1 - Property Insurance, 4 crs.
Basic concepts of all insurance contracts plus an indepth study of property insurance contracts with attention to coverage, exclusions, and provisions.

+Part 2 - Automobile Insurance, 4 crs.
Prerequisite: RMI 1650.
All aspects of automobile insurance, including Florida law requirements, personal auto, insurance contracts, and coverage available for commercial auto risks.

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+Part 3 - General Liability and Work Compensation, 2 crs.
Prerequisite: RMI 1651.
Comprehensive study of all liability insurance contracts with emphasis on commercial liability policies. Also, a study of Workers Compensation coverage and the laws pertaining to risk with employees.

+Part 4 - Multi-Peril Insurance, 3 crs.
Prerequisite: RMI 1652.
Presentation of packaging all mono-line coverage for both commercial and personal lines. Includes the lesser used coverage, such as Ocean Marine, Aviation, Boiler and Machinery, and Health Insurance coverage. Presents crime coverage and principles of surety bonding.

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RTE – RADIOLOGIC TECHNOLOGY

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+#RTE1000, Introduction to Diagnostic Imaging
2 hrs., 2 crs.
Prerequisite: RTE1111C.
Corequisite: RTE1513.
This course covers the organization and operation of a radiology department; radiologic topics include: x-ray equipment operation, historical aspects of radiography, department organizational structure, safety, radiation protection, imaging media and receptors, image processing techniques, basic exposure factors, and accreditation and professional development.

+#RTE1111C, Introduction to Patient Care
2 hrs., 2 crs.
$22.00 lab fee
Prerequisite: Program Admission.
Corequisite: RTE1503.
An introduction to the principles and practices of patient care during radiographic examinations. Topics include medical ethics, medical legal issues, patient assessment & communication, patient care & safety, infection control, surgical asepsis, vital signs & oxygen administration, contrast media, pharmacology, electrocardiography, medical emergencies, trauma & mobile considerations, the care of pediatric & geriatric patients.

+#RTE1418, Principles of Radiographic Exposure I
3 hrs., 3 crs.
Prerequisite: RTE1111C.
The fundamentals of atomic structure, magnetism, electricity, and radiation physics as they relate to the principles of x-ray production will be presented. A study of factors that govern and influence the production of an image, image processing, image receptor systems. Technical facotrs of image quality including theory and application of exposure factors, intensifying screen, radiographic film, filtration, and beam limitation will be introduced and discussed through lecture.

+#RTE1457, Principles of Radiographic Exposure II
3 hrs., 3 crs.
Prerequisite: RTE1418.
Corequisite: RTE1457L.
A continuation of RTE 1418 with emphasis on computerized and digital radiography principles and equipment operations, picture archiving and communication systems, digital receptors, image acquisition and analysis, quality assurance and maintenance issues.

+#RTE1457L, Principles of Radiographic Exposure II Lab
2 hrs., 1 cr.
Prerequisite: RTE1418.
Corequisite: RTE1457.
Practical application of theory taught in RTE1418 and RTE1457. Students perform laboratory experiments to demonstrate concepts taught in lecture.

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+#RTE1503, Radiographic Positioning and Procedures I
3 hrs., 3 crs.
Prerequisite: Admission to the program.
Corequisite: RTE1503L.
This course is designed to prepare the student for practical experience in the clinical setting. Topics include basic anatomy and radiographic positioning of the human body in examination of the chest, abdomen, and upper extremities. Students will practice in a "hands on" lab following each lecture.

+#RTE1503L, Radiographic Positioning and Procedures
   Lab I
30 hrs., 1 cr.
$9.00 lab fee
Prerequisite: Program admission.
Corequisite: RTE1503.
Practical application of theory taught in RTE 1503 class. Students practice positioning techniques relating to radiography of the chest, extremities and abdomen.

+#RTE1513, Radiographic Positioning and Procedures II
2 hrs., 2 crs.
Prerequisite: RTE1503.
Corequisite: RTE1513L.
This course is designed to prepare the student for practical experience in a clinical setting. Topics include basic anatomy and radiographic positioning of the human body in examination of the shoulder girdle, lower extremity, pelvic girdle, spine, and bony thoras. Students will practice in a "hands on" lab following each lecture.

+#RTE1513L, Radiographic Positioning and Procedures
   Lab II
30 hrs., 1 cr.
$9.00 lab fee
Prerequisite: RTE1503. Corequisite: RTE1513.
The student will demonstrate in a laboratory setting basic anatomy, terminology, and radiographic positioning of the human body as it relates to radiographic examinations of the spine, ribs, bony thorax, lower extremities and shoulder girdle. Discussion includes trauma radiography along with the application of radiographic equipment and technical exposure factors for the exams presented.

+#RTE1523, Radiographic Positioning and Procedures III
2 hrs., 2 crs.
Prerequisite: RTE1513L.
Corequisite: RTE1523L.
This course is designed to prepare the student for practical experience in the clinical setting. Topics include basic anatomy and radiographic positioning of the human body in examination of the head and upper and lower gastrointestinal systems. Special considerations for geriatric and pediatric patients will be discussed. Students will practice in a "hands on" lab following each lecture.

+#RTE1523L, Radiographic Positioning and Procedures
   Lab III
30 hrs., 1 cr.
$9.00 lab fee
Prerequisite: RTE1513.
Corequisite: RTE1523.
Practical application of theory taught in RTE 1523 class. Students practice positioning techniques relating to radiography. The student will demonstrate in a laboratory setting basic anatomy, terminology, and radiographic positioning of the human body

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as it relates to examination of the skull, cranial bones, facial bones and sinuses, the upper and lower gastrointestinal systems as well as the urinary system. Special considerations for and pediatric patients will be discussed. Students will practice in a "hand's on" lab following each lecture.

+#RTE1804, Clinical Education I
144 hrs., 2 crs.
$29.00 lab fee
Prerequisites: RTE1000, current certification in cardiopulmonary resuscitation, Hepatitis B vaccine or waiver, physical exam report on file in program office.
Corequisite: RTE1111C.
Observation and application of health care principles will be the focus of this clinical rotation. The student will spend time orienting to the medical facility, learning to understand the departmental process and procedures, and becoming familiar with the flow of the radiology department. The student will begin to apply the radiographic principles and skills taught in RTE1503 and will perform exams under direct and indirect supervision of a clinical instructor.

+#RTE1814, Clinical Education II
216 hrs., 3 crs.
$13.00 lab fee
Prerequisite: RTE1804.
Observation and application of the primary healthcare principles will be the focus of this clinical rotation. The student will begin to apply the radiographic principles and skills taught in RTE1503 and RTE1513 and will perform exams under direct and indirect supervision of a clinical instructor.

+#RTE1824, Clinical Education III
288 hrs., 4 crs.
$13.00 lab fee
Prerequisites: RTE1814.
Obser vation and application of the primary of healthcare principles will be the focus of this clinical rotation. The student will continue to build on the radiographic principles and skills taught in RTE1503 and RTE 1513. In addition, the student will begin applying the principles taught in RTE 1523 and will perform exams under direct and indirect supervision of a clinical instructor.

+#RTE2061, Radiography Seminar
2 hrs., 2 crs.
Prerequisite: RTE2844.
An in depth review of American Registry of Radiologic Technology (ARRT) certification in Radiologic Science. Emphasis is placed on patient care, radiation protection, equipment operation and maintenance, image production and evaluation, and overall radiographic procedure.

+#RTE2385, Radiobiology and Radiation Protection
3 hrs., 3 crs.
Prerequisite: RTE1111C.
The student will study the interactions and effects of ionizing radiation on cells, tissues, and the human body. In addition, the student will learn the principles of radiation protection and the safety requirements of regulatory agencies related to radiography.

+#RTE2563, Advanced Medical Imaging
3 hrs., 3 crs.
This course prepares the student to perform advanced imaging proceduresand introduces the student to advanced imaging modalities in computerized tomography, magnetic resonance imaging, ultrasonography, nuclear medicine, surgical radiography, mammography, bone densitometry, interventional vascular imaging, cardiovascular imaging and radiation therapy.

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#RTE2762, Sectional Anatomy
3 hrs., 3 crs.
Prerequisites: BSC2086, BSC2086L.
Identification of normal and abnormal anatomic structures of the skull, neck, thorax, reproduction, central nervous, cardiovascular, and musculoskeletal systems by the use of cross-sectional imaging modalities.

+#RTE2782, Radiographic Pathology
2 hrs., 2 crs.
Prerequisite: RTE1111.
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.

+#RTE2834, Clinical Education IV
360 hrs., 5 crs.
$30.00 lab fee
Prerequisites: RTE1824.
Observation and application of primary healthcare principles is the focus of this clinical rotation. The student will inue to build on the radiographic principles and skills taught in RTE1503, RTE1513, and RTE1523 and will perform exams under direct and indirect supervision of a clinical instructor.

+#RTE2844, Clinical Education V
360 hrs., 5 crs.
$13.00 lab fee
Prerequisite: RTE2834.
Observation and application of primary healthcare principles will be the focus of this clinical rotation. The student will continue to build on the radiographic principles and skills taught in RTE1503, RTE1513, and RTE1523 and perform exams under direct and indirect supervision of a clinical instructor. In addition, the student will begin clinical rotations into the surgical suite and computed tomography.

+#RTE2854, Clinical Education VI
144 hrs., 2 crs.
$13.00 lab fee
Prerequisite: RTE2844.
Application of principles and performance of radiographic procedures will be the focus of this clinical rotation. Students will demonstrate a mastery of the basic skills necessary to perform a variety of radiographic procedures and perform exams under direct and indirect supervision of a clinical instructor. Students will also, on a rotational basis, begin clinical observation of advanced modalities to include CT, MRI, US, Interventional Vascular/Cardiovascular, Mammography Nuclear Medicine and Radiation Therapy.

SBM – SMALL BUSINESS MANAGEMENT: OCCUPATIONAL/TECHNICAL VARIABLE PACED

+SBM2000, Small Business Management
3 hrs., 3 crs.
Corequisite: ENT2000.
This course provides the student an opportunity to learn and practice hands-on technical execution of many of the key issues, necessities, opportunities and challenges faced by small business entrepreneurs.

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SCY – SECURITY

=SCY0501, Unarmed Security Guard
40 contact hrs., 1.5 vocational crs.
This course is designed to prepare students to apply for class "D" private security officer license. Topics include: regulatory compliance, first aid and CPR, emergency procedures, ethics, and entrepreneurship. Topics of instruction cover both Course A and Course B of Department of Agriculture and Consumer Services requirements for application and renewal of license.

=SCY0503C, Armed Security Guard
28 contact hrs., 1.0 vocational crs.
$50.00 lab fee
This course is designed to meet or exceed the Florida Department of State requirements for obtaining a Class "G" armed security officer license. This course provides practical experience and qualification in firearms as well as a review of Florida state law. Upon successful completion of this course, students are eligible for application to the Florida Department of State for licensure as an armed security officer.

SLS – STUDENT LIFE SKILLS (LEARNING)

SLS1201, Personal Development
3 hrs., 3 crs.
The course is aimed toward improving self-esteem of the student. Motivation, interpersonal relationships, study skills, basic academic skill level, and future potential of the individual are examined. (A student cannot receive credit for SLS 1300 or SLS 1302 and SLS 1201). This course is highly recommended for students who test into two or more developmental courses.

SLS1225, Human Potential Seminar
1 hr., 1 cr.
Students will explore the process of goal setting by becoming familiar with common goal theories and motivational theories and applying them to the development of a specific academic plan. This course is highly recommended for students who test into two or more developmental courses.

SLS1300, Life and Career Planning I
1 hr., 1 cr.
Designed to help students set realistic life goals and determine occupational interests. (A student cannot receive credit for SLS 1300 or SLS 1302 and SLS 1201.)

SLS1301, College and Career Management
3 hrs., 3 crs.
Emphasis is placed on academic, personal, and interpersonal skills that will equip the student with the skills necessary to succeed in college and the creation of a sense of career importance. This course is highly recommended for students who test into two or more developmental courses.

SLS1302, Life and Career Planning II
2 hrs., 2 crs.
A continuation of SLS 1300 and includes values clarification and career and job planning. (A student cannot receive credit for SLS 1300 or SLS 1302 and SLS 1201.) This course is highly recommended for students who test into two or more developmental courses.

#SLS1350, Employability Skills I
2 hrs., 2 crs.
Pre-job training to help students set realistic job goals and to steer them into educational programs appropriate for their aptitudes and interests. Emphasis is on values clarification, setting life goals, determining occupational interests, time structuring, and developing proper work attitudes. This course is highly recommended for students who test into two or more developmental courses.

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SLS2264, Leadership Development Seminar
3 hrs., 3 crs.
This course encourages participants to develop their leadership potential by discovering the style that works best with their personal strengths and beliefs. The student will build skills for communication, conflict resolution, positive motivation, team building, and decision making. Community service is a required component to this course to expand the students understanding of citizenship and to provide a platform for expanding their newly acquired leadership skills.

SON – SONOGRAPHY

+#SON1000, Introduction to Sonography
2 hrs., 2 crs.
Prerequisite: Program acceptance.
Corequisite: SON1211, SON2113.
This course is an introduction to the profession of sonography and the role of the sonographer. Emphasis is on medical terminology, ethical/aspects, written and verbal communication, patient care and professional issues relating to registry, accreditation, professional organizations, and history of the profession.

+#*SON1052, Sonography Pathology
4 hrs., 4 crs.
Prerequisite: SON1144.
This course is designed to enhance the student's knowledge of normal and abnormal anatomy. Emphasis is placed on sonographic appearance, both normal and pathological. Clinical scenarios will enable the student to apply information in the clinical setting, and encourage the necessary critical thinking skills. Case studies and study questions will evaluate the student's comprehension of the topic.

+#SON1100, Principles and Protocols of Sonography Imaging
2 hrs,. 2 crs.
Prerequisite: SON1000.
Corequisite: SON1100L, SON1170, SON1170L.
A basic introduction to sonographic scanning of the abdomen, pelvis, vascular systems with laboratory practice and application.

+#SON1100L, Principles and Protocols of Sonography Imaging Lab
4 hrs,. 2 crs.
$118.00 lab fee
Corequisite: SON1100.
This course provides practical, firsthand experience in scanning procedures and techniques in a laboratory setting. Fundamental theories and scanning protocols learned in SON1100 will be applied.

+#SON1111, Abdominal Sonography I
3 hrs., 3 crs.
Prerequisites: SON1100. Corequisites: SON1804.
This course is designed to correlate the sonographic anatomy, physiology, and pathology of the following organs/systems: muscles; major vasculature; liver, biliary system; and pancreas. The course will emphasize the sonographic features and characteristics of normal anatomy as well as the pathologies that might affect each organ. The course will also integrate clinical and diagnostic procedures, which are common to and specific to each organ.

+#SON1112, Abdominal Sonography II
3 hrs., 3 crs.
Prerequistie: SON1111.
Corequisite: SON1814.
This course is a continuance of Abdominal Sonography I, and is designed to correlate the sonographic anatomy, physiology, and pathology of the following organs/systems: urinary system; adrenal glands; spleen; lymphatic system; retro-peritoneum

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intraperitoneal organs; male pelvis and scrotum; breast; neck and thyroid; and superficial structures. The course will emphasize the sonographic features and characteristics of normal anatomy as well as the pathologies that might affect each organ/system. The course will also integrate clinical and diagnostic procedures, which are common to and specific to each organ.

+#SON1121, OB/GYN Sonography I
3 hrs., 3 crs.
Prerequisite: SON1100. Corequisite: SON1804.
This course is designed to give the Sonography student an understanding of the anatomy, physiology, and pathology of the gravid and non-gravid female pelvis in both normal and abnormal appearances. The student will be introduced to the first trimester of pregnancy including its related anatomy, physiology, and possible pathology and/or complications. Embryology, early fetal development, sonographic identification and imaging of the embryo and fetus, trans-abdominal and trans-vaginal scanning techniques will be covered.

+#SON1122, OB/GYN Sonography II
3 hrs., 3 crs.
Prerequisite: SON1121. Corequisites: SON1814.
This course is a continuation of OB/GYN Sonography I and is designed to give the student detailed instruction as to the role of Sonography during the second and third trimesters of pregnancy. Fetal development, physiology, all major anomalies, and maternal complications directly related to the second and third trimesters of pregnancy will be covered in detail.

+#SON1144, Superficial Structures
2 hrs., 2 crs.
Prerequisite: SON1112, SON1122, SON1814, SON2175. Corequisites: SON1824, SON1052.
The course is an overview emphasizing the sonographic features and characteristics of normal and abnormal anatomy of the superficial structures. The course will also integrate clinical and diagnostic procedures of the male pelvis and scrotum; breasts; neck and thyroid.

+#SON1170, Sonography of the Circulatory System
2 hrs., 2 crs.
Prerequisite: SON1100.
Corequisite: SON1170L.
An introduction to the hemodynamics of the circulatory systems and the sonographic imaging and Doppler assessment of the cardiac and vascular structures.

+#SON1170L, Sonography of the Circulatory System Lab
2 hrs., 1 cr.
Corequisite: SON1170.
This course is designed to apply to concepts and skills learned in SON1170. Topics include hemodynamics of the circulatory system using sonographic imaging and Doppler scanning for assessment of cardiac and vascular structures.

+#SON1211, Medical Sonography Physics
3 hrs., 3 crs.
Prerequisites: BSC2085, BSC2085L, program acceptance. Corequisites: SON1000.
This course is designed to present the Sonography student with detailed explanations of sound physics and instrumentations. The fundamental properties of diagnostic ultrasound stressing the operation of diagnostic ultrasound equipment, images and Doppler system, pulse wave, and continuous wave transducers, artifacts, focusing characteristics, tissue interactions, biological effects, and quality assurance methods will be discussed and evaluated.

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+#*SON1214, Practical Aspects of Sonography
2 hrs., 2 crs.
Prerequisite: Program acceptance.
Corequisite: SON1000.
A study of the principles of diagnostic ultrasound and practical aspects of scanning techniques, image critique, image identification, and patient care and handling as related to sonographic examination. Stressing operation of diagnostic equipment and routine images obtained.

+#SON1804, Clinical Education I
240 hrs., 2 crs.
$135.00 lab fee
Prerequisite: SON1100. Corequisites: SON1111.
This course introduces the patient/sonographic role in a simulated clinical environment. It is designed to subject the students to clinical situations as they become familiar with the role and responsibilities of a sonographer. The course will have the students visiting the clinical facilities on a limited basis. A portion of the clinical hours will take place in the college campus sonography setting.

+#SON1814, Clinical Education II
360 hrs., 3 crs.
Prerequisite: SON1804. Corequisites: SON1112.
This course applies the principles learned in Abdominal & OB/GYN I to actual clinical rotations. The student will receive sonographic instruction in the following ways: by performing a variety of sonographic examinations: initiation of affiliate protocols; appropriate operation of equipment; providing patient care; exam documentation; and evaluation by the clinical instructor. A portion of the clinical hours will take place in the college campus sonography lab setting.

+#SON1824, Clinical Education III
352 hrs., 3 crs.
Prerequisite: SON1814.
Corequisite: SON1144.
A goal of this clinical course of the curriculum is to have the students strive to perform under indirect supervision while exercising independent judgment relative to the entirety of the sonographic examinations being performed. The students successfully complete assigned clinical competencies.

#SON2061, Sonography Review
2 hrs., 2 crs.
This course provides a comprehensive review of the entire Sonography Program content. Physics review will include physics principles and instrumentation, Doppler Instrumentation and hemodynamics, transducers, quality assurance, bio effects, and physics mock exam. Abdominal review includes all abdominal organs and systems,
abdominal vasculature, peritoneum, retroperitoneum, gastrointestinal tract, superficial structures(breast, scrotum, and prostate), and abdomen mock registry. Obstetrics and Gynecology includes anatomy and physiology of the female pelvis, pathology of the pelvis, first trimester, second and third trimester, fetal abnormalities, complications of pregnancy, and 0B/GYN mock registry.

+#*SON2113, Cross-Sectional Anatomy
4 hrs., 4 crs.
Prerequisite: BSC1020, program acceptance or BSC2085, BSC2085L, BSC2086, BSC2086L, program acceptance. Corequisite: SON1211.
This course is designed to prepare the student to identify internal structures including organs and vasculature that are important to the objectives of Diagnostic Medical Sonography. The students will build upon their entry level gross anatomy knowledge base to develop their cross-sectional anatomic recognition skills. Sonographic scanning protocols will be included relative to the anatomy being studies, which will serve as a linkage to the clinical environment.

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+#SON2171, Introduction to Vascular Sonography
3 hrs., 3 crs.
Prerequisite: SON2113.
Corequisite: SON2171L.
This course introduces the fundamental theory and skills necessary for the evaluation of vascular disease using noninvasive technique. Hemodynamics, instrumentation, vascular anatomy, physiology and physical principles are emphasized. Cerebrovascular, peripheral arterial and venous testing are included in this course.

+#SON2171L, Introduction to Vascular Sonography Lab
2 hrs., 1 cr.
Corequisite: SON2171.
This course provides practical, firsthand experience in scanning procedures and techniques in a laboratory setting. Fundamental theories and scanning protocols learned in SON2171 will be applied.

+#SON2175, Vascular Sonography
3 hrs., 3 crs.
Prerequisite: SON2171. Corequisite: SON1814.
This course is a continuation of the material covered in introduction to Vascular Sonography. Sonographic imaging and Doppler assessment of the cerebrovascular and peripheral vascular systems are stressed. Doppler analysis of both normal and abnormal flow patterns of the cerebrovascular and peripheral vascular systems will be emphasized. Interpretation of test results will be covered.

+#SON2176C, Advanced Vascular Sonography
75 contact hrs., 4 crs.
Prerequisite: SON2175 with a minimum grade of "C" or permission of program director.
This course covers a review of normal and abnormal vascular anatomy and physiology to include, pathophysiology, and hemodynamics in the different types of vascular disease/dysfunctions. In addition, clinical vascular diagnostic procedures: emphasizing, indications, utility, and limitations of various imaging procedures. This course has a required clinical/lab componenet to promote imaging and skills in the performance of physiologic testing (including volume pulse recording, pressure measurements, plethysmography, and stress testing), real-time ultrasound imaging, and Doppler evaluation (pulsed and continuous wave, color and power flow) as relates to the vasculature.

+#SON2220, Advanced Sonographic Imaging
1 hr., 1 cr.
Prerequisite: *SON2175.
Corequisite: SON1824.
This course will inform the students of new innovations in equipment and techniques which may include but not limited to breast imaging, contrast enhanced imaging, pediatric specific imaging (i.e. infant hips and neurosonography) and Musculoskeletal Sonography.

+#SON2400C, Echocardiography I
75 contact hrs., 4 crs.
$17.00 lab fee
Prerequisite: SON2175 with a minimum grade of "C" or permission of program director.
This course covers normal and abnormal cardiac anatomy and physiology, cardiac pathology, pathophysiology, and hemodynamics. Cardiac procedures emphasizing indications and utility will be discussed. This course requires a clinical/lab component in which students will enhance their proficiency in the performance of M-mode, two-dimensional, and Doppler (pulsed wave, continuous wave, color flow and power) echocardiographic studies. Students will participate in scanning protocols in the lab and clinical settings.

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+#SON2401C, Echocardiography II
75 contact hrs., 4 crs.
Prerequisite: SON2400C with a minimum grade of "C".
The course covers abnormal echocardiographic and Doppler patterns of disease, pathology, and pathophysiology for various cardiovascular diseases. Indications, utility, limitations, and technical procedures for related echocardiographic studies: stress echocardiography, transesophageal echocardiography, intraoperative echocardiography, constrast echocardiography, three-dimensional echocardiography and echo-guided procedures. This course requires a lab component in which students will enhance their proficiency in the performance of echocardiographic studies. Students will participate in scanning protocols in the lab and clinical settings.

+#SON2834, Clinical Education IV
384 hrs., 4 crs.
$23.00 lab fee
Prerequisite: SON1824.
This course is the final course of the curriculum. Its goal is to have the students strive to perform under indirect supervision while exercising independent judgment relative to the entirety of the sonographic examinations being performed and to generally progress to the point where he/she may be accepted as a competent entry level sonographer. The students must meet their exiting competencies.

+#SON2930, Special Topics in Sonography
1 hr., 1 cr.
Prerequisite: SON1144.
Corequisite: SON1052.
This course introduces the fundamental theory and skills necessary for the evaluation of selected topics. Selection of the topic will be determined by student and clinical needs.

+#SONXXXX, Ultrasound-Guided Interventional Procedures and Techniques
1 hr., 1 cr.
Prerequisite: *SON1100.
Corequisite: SON1804.
This course will include but not be limited to biopsy, drainage, aspiration, and other advanced ultrasound procedures. Emphasis will be placed on sterile technique, patient preparation and post procedure care, protocols and special medical equipment used in the procedures. Instruction and guidance will be given in producing and parameters used to evaluate quality sonographic images to be used to guide the physician.

SOW – SOCIAL WORK

SOW2020, Introduction to Social Work
3 hrs., 3 crs.
This course is an introduction to an analysis of the relationship of social problems and their determinants to clients, social welfare institutions, services, policies, and social service delivery systems.

SPC – SPEECH COMMUNICATION

SPC1420, Group Discussion
3 hrs., 3 crs.
Theory and practice in the process and dynamics of group discussion. Emphasis on techniques for the problem-solving or decision-making group.

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+SPC1608, Introduction to Public Speaking
3 hrs., 3 crs.
Prerequisite: Eligibility for ENC1101.
Verbal elements of public speaking (purpose, organization, development, style, and methods of presentation of the message and relationship of the message to specific audiences) and nonverbal elements of public speaking (body action, voice, and general bearing). Designed to meet the practical needs of the general student.

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SPN – SPANISH LANGUAGE

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#SPN1000, Basic Spanish Conversation I
3 hrs., 3 crs.
Introduction to Spanish sound system and conversational emphasis on practical applications in daily personal and business life. Culture based. (Does not fulfill any part of the college-transfer sequence and does not provide General Education elective credit.)

#SPN1001, Basic Spanish Conversation II
3 hrs., 3 crs.
Continuation of SPN1000. This course is for students with specific professional or leisure interests in learning Spanish. Emphasis is on culture and a practical application of structures and vocabulary. Conversational approaches are used throughout the semester. Does not fulfill any part of the two-year college transfer sequence and does not provide General Education elective credit.

#SPN1050, Basic Spanish for Business
5 hrs., 5 crs.
Introduction to basic Spanish for persons with commercial interests. Emphasis will be in conversational and business language with limited grammatical structure pertaining to reading and writing in business Spanish. Introduction to common etiquette of Spanish-speaking countries and the process of making business travel arrangements. (Does not fulfill any part of the two-year college transfer sequence and does not provide General Education elective credit.)

+SPN1120, First-Year Spanish I
4 hrs., 4 crs.
Prerequisite: Eligibility for ENC1101.
This course aims to develop basic communicative skills in Spanish, including speaking, listening, writing and reading, and to apply those skills to gain knowledge of other cultures. By the end of this course students will be able to communicate in Spanish about a variety of topics including greetings and questions, daily activities at a university, family relationships, leisure-time activities, and a house or personal residence. A minimum grade of "C" in SPN1120 must be attained in order to enroll for SPN1121.

+SPN1121, First-Year Spanish II
4 hrs., 4 crs.
Prerequisite: SPN1120.
This course is a continuation of SPN1120. Successful completion of SPN1120 with a minimum grade of "C" is required. This course will continue to develop basic communicative skills in Spanish, including speaking, listening, writing and reading, and to apply those skills to gain knowledge of other cultures. By the end of this course, students will be able to communicate in Spanish about a variety of topics including health and the body, food, shopping, holidays, travel, relationships, professions, and the environment. A minimum grade of "C" in SPN1121 must be attained in order to enroll for SPN2200.

***+SPN2200, Second-Year Spanish I**
4 hrs., 4 crs.
Prerequisites: ENC1101 and SPN1121 or equivalent. (Meets Philosophy/Religion Humanities requirement.)
This course aims to develop intermediate communicative skills in Spanish, including speaking, listening, writing, and reading. Readings and audiovisual materials dealing with Spanish culture and civilization favor grammar review and expansion, as well as

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oral practice. This course is a Gordon Rule writing course in which students will produce extensive college-level writing and requires completion with a minimum grade of "C."

+SPN2201, Second-Year Spanish II
3 hrs., 3 crs.
Prerequisite: SPN2200 or consent of instructor.
This course is a continuation of SPN2200 with emphasis on conversation with authentic cultural materials. Authentic listening, reading, and audiovisual materials based on everyday culture and civilization of people from Spain and Hispanic America, basic grammar review, intermediate-level grammar, and development of listening, reading, writing, and speaking skills in the intermediate level.

STA – STATISTICS

+STA2023, Statistics
3 hrs., 3 crs.
Prerequisite: Successful completion of developmental courses, appropriate placement test scores or meet state exemption requirement. A graphing calculator is required. The TI-83/84 are the only allowable calculators for test days. If a student wishes to use any other calculator they must see their instructor in advance for approval.
Topics include summarization of data, probability, probability distributions, normal distribution, sample mean and standard deviation, statistical estimation, testing hypotheses, chi-square distributions, linear correlation, and regression, and non-parametric statistics.

+STA2122, Statistical Applications in Social Sciences I
4 hrs., 4 crs.
Prerequisite: Satisfactory score on math placement test or a minimum grade of "C" in MAT1033.
An introductory course which includes probability distributions, hypothesis testing, confidence interval estimation, correlation, analysis of variance, and regression.

STS – SURGICAL TECHNOLOGY STUDIES

#STS1300, Surgical Anatomy and Physiology
75 hrs., 5 crs.
A basic introductory surgical technology course designed to provide the student an understanding of medical terminology and the structure and function of the human body including relevant pathophysiology. Emphasis is placed on the structure and function of body organs and systems.

+#*STS1302, Introduction to Surgical Technology
60 hrs., 4 crs.
Prerequisite: HSC1000.
Corequisite: STS1302L.
This course introduces the discipline of surgery including the preoperative, intraoperative, and postoperative care of the patient. Topics include the profession, healthcare facility organization and management, physical environment, mental health, personal hygiene, attire, gown/glove, professional ethics, legal issues in patient care, chart preparation, affirmative impact statement, aseptic technique, infection control, equipment, instrumentation, supplies, methods of disinfection and sterilization, sterile storage and distribution, hazards of the environment, environmental sanitation and the typical sequence of surgery. An introduction to patient assessment, principles of electricity and robotics, and the specialties of surgery is included.

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+#*STS1302L, Introduction to Surgical Technology Lab
105 hrs., 2 crs.
$92.00 lab fee
Prerequisite: HSC1000L.
Corequisite: STS1302.
Course is designed to prepare students for the application of the principles of sterile technique, the preoperative preparation of the patient, surgical consent, the use and preparation of surgical instrumentation, use of surgical supplies, tissue replacement materials, preparation of suture, passing of instruments and the surgical setup. Skills include the application of sterile technique, transfer of patient, positioning, preparation of sterile supplies, the identification and passing of instrumentation and universal case setup. The clinical practicum includes an introduction to sterile processing, case management , room turnover, and surgery observation.

+#*STS1310, Surgical Techniques and Procedures
60 hrs., 4 crs.
Prerequisite: STS1302.
Corequisite: STS1310L.
Course is designed prepare students for the roles of the surgical technologist including duties of the assistant circulator role, duties of the scrub role, chart review, patient identification, skin preparation, urinary catheterization, counts, draping, types of incisions, principles of wound healing, hemostasis, exposure, applicaton of catheters, drains and 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 perioperative care including the preoperative, intraoperative, and postoperative care of the patient. Overview of surgical specialties is included with emphasis on common surgical procedures.

+#*STS1310L, Surgical Techniques and Procedures Lab/Clinical
160 hrs., 2 crs.
$130.00 lab fee
Prerequisites: STS1302L.
Corequisite: STS1310.
Course is designed to prepare students for the roles of the surgical technologist, the scrub role in surgical procedures, tissue handling techniques, wound closure techniques, preparation of suture, passing of instruments and the surgical setup for common procedures. Actions are emphasized that facilitate the usual sequence of the surgical procedure for all segments of perioperative care including the preoperative, intraoperative, and postoperative care of the patient.

+#*STS1340, Pharmacology and Anesthesia
30 hrs., 2 crs.
This course is designed to introduce students to most commonly used pharmacological agents utilized for surgical patients in each phase of the perioperative experience and those utilized in the treatment of complications and emergencies. Emphasis is placed on preoperative medications, anesthetics and medications utilized within the sterile field stressing identification, preparation, measurements, management within the sterile field, handling/transfer, and usage. Other topics include pain management, airway and respiratory management, IV fluid and electrolyte replacement therapy, and a comparison of the types of anesthesia, physiological effects, complications and treatment.

#*STS1925, Endoscopy Basics
45 hrs., 3 crs.
Corequisite: STS1925L.
This course is designed to prepare students for employment in the related areas of central sterile technology regarding endoscopic instrumentation, basic set up, decontamination, equipment maintenance and sterilization, scope processing, and rigid endoscopic tray assembly.

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#*STS1925L, Endoscopy Basics Lab
30 hrs., 1 cr.
$35.00 lab fee
Corequisite: STS1925.
Course provides experience in a controlled setting regarding the care, handling, and use of endoscopy equipment.

#*STS1926, Endoscopy Technician Theory
45 hrs., 3 crs.
Course is designed to prepare students for role of the GI technician regarding flexible endoscopic procedures including the specialties of gastroenterology and pulmonology. For those desiring training in rigid endoscopy, additional course modules are available to prepare students to function as an endoscopic technician to setup and troubleshoot rigid endoscopy equipment.

#*STS1926L, Endoscopy Technician Lab and Clinical
185 hours, 3 crs.
$50.00 lab fee
Course provides 185 hours of experience in the field of endoscopy.

#STS2305, Operative Anatomy and Pathophysiology I
15 hrs., 1 cr.
Prerequisites: BSC2085, BSC2085L, BSC2086, BSC2086L, or certification as a surgical technologist.
Surgical anatomy, physiology, function and structure of the human body relevant to core surgical procedures will be explored including relevant pathophysiology, etiology, disease, and congenital anomalies that are commonly encountered during surgical related interventions. Discussion will include pathology classification, cellular injury, types of necrosis, inflammation, types of injury, nutritional and metabolic pathologies, immunological disorders, and neoplastic disorders.

#STS2306, Operative Anatomy and Pathophysiology II
15 hrs., 1 cr.
Prerequisite: STS2305.
Surgical anatomy, physiology, function and structure of the human body relevant to specialty surgical procedures will be explored including relevant pathophysiology, disease, and congenital anomalies that are commonly encountered during surgical related interventions. Discussion will include circulatory pathologies, hemodynamic management, and pain management.

#STS2323, Surgical Procedures I
60 hrs., 4 crs.
Prerequisite: STS1310, STS1310L.
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, endoscopic surgery, gynecological and obstetrical surgery, genitourinary surgery, orthopedic surgery, and otorhinolaryngological surgery (ear, nose and throat), diagnostic procedures and relevant equipment, supplies, and techniques. Depth of coverage will be determined by the Core Curriculum for Surgical Technologists published by the Association of Surgical Technologists.

#STS2323L, Surgical Procedures Lab I
55 hrs., 2 crs.
$190.00 lab fee.
Prerequisite: STS1310, STS1310L.
Corequisite: STS2323.
Lab course to accompany STS2323, Surgical Procedures I which includes the completion of mock surgical core procedures to facilitate the student's ability to anticipate the steps of the procedure and permits the evaluation of the student's performance regarding the critical elements of the surgical technologist's responsibilities.

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#STS2324, Surgical Procedures II
60 hrs., 4 crs.
Prerequisite: STS2323.
Course is designed to prepare students for specialty 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, neurosurgery, cardio thoracic surgery, peripheral vascular surgery, trauma and surgery for all ages. Depth of coverage will be determined by the current edition of the Core Curriculum for Surgical Technologists published by the Association of Surgical Technologists.

#STS2324L, Surgical Procedures Lab II
55 hrs., 2 crs.
$320.00 lab fee
Prerequisite: STS2323, STS2323L.
Corequisite: STS2324.
Lab course to accompany STS2324, Surgical Procedures II which includes the completion of mock surgical core procedures to facilitate the student's ability to anticipate the steps of the procedure and permits the evaluation of the student's performance regarding the critical elements of the surgical technologist's responsibilities.

+#*STS2330, Principles of Surgical Assisting
45 hrs., 3 crs.
Prerequisite: STS1310 or certification as a surgical technologist (CST).
Corequisite: STS2330L.
An in-depth study of the professional roles, history, legal and ethical responsibilities of the surgical assistant to include the basic principles of surgical assisting such as instrument usage, incisional approaches, surgical dissection, operative exposure, tissue handling, hemostasis, retraction, suturing, wound healing, tissue replacement materials, irrigation, specimen care, catheter/drain placement, surgical hazard management, auto-transfusion techniques, and wound management. Patient care skills under the direction of the surgeon include interview techniques, history taking, physical assessment, diagnostic exams, planning, patient education, patient monitoring, specific perioperative patient care skills, and application of infection control techniques. Application of the principles of technological sciences and problem solving includes prevention and treatment of potential complications or emergencies.

+#*STS2330L, Principles of Surgical Assisting Lab
40 hrs., 1 cr.
$330.00 lab fee
Prerequisite: STS1310L or certification as a surgical technologist (CST).
Corequisite: STS2330.
On-site lab simulation regarding the role of the surgical assistant. Topics include a review of patient assessment, monitoring devices, IV fluid and electrolyte replacement therapy, bladder catheterization, positioning, application of pneumatic tourniquets, operative site exposure, port insertion technique, endoscopic suturing techniques, stapling devices, hemostasis, wound closure, and drainage systems.

+#*STS2331, Core Surgical Procedures I
45 hrs., 3 crs.
Prerequisite: STS2330.
Prepares students to assist with surgical procedures. Includes relevant preoperative diagnosis, common complications, surgical sequence, operative pathophysiology, and postoperative care for common surgical procedures. Core surgical specialties to be covered include the services of general, gynecologic and obstetric, otolaryngology, genitourinary, and orthopedic.

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#STS2331L, Surgical Assisting Simulation Lab I
30 hrs., 1 cr.
$190.00 lab fee
Prerequisite: STS2330L.
Lab course to accompany STS2331, Core Surgical Procedures I, to prepare the non-certified student. Includes the completion of simulated mock surgical core procedures to facilitate the student's ability to anticipate the steps of the procedure and permits the evaluation of the student's performance regarding the critical elements of either the hospital employed, surgeon employed, or private practice surgical first assistant's responsibilities.

+#*STS2332, Specialty Surgical Procedures II
45 hrs., 3 crs.
Prerequisite: STS2331.
Prepares students to assist with surgical procedures. Includes relevant preoperative diagnosis, common complications, surgical sequence, operative pathophysiology, and postoperative care for common surgical procedures. Surgical specialties to be covered include the services of ophthalmic, plastic and reconstructive, neurosurgery, vascular, and cardiothoracic. Includes a comprehensive module to assist students in preparing for the certification examination.

#STS2332L, Surgical Assisting Simulation Lab II
30 hrs., 1 cr.
$280.00 lab fee
Prerequisite: STS2331L.
Lab course to accompany STS2332, Specialty Surgical Procedures II, to prepare the non-certified student. Includes the completion of simulate dmock surgical procedures to facilitate the student's ability to anticipate the steps of the procedure and permits the evaluation of the student's performance regarding the critical elements of either the hospital employed, surgeon empoyed, or private practice surgical first assistant's responsibilities. Final lab skills assessment will be performed regarding the scrub, assistant circulator and first assistant roles including performance regarding the application of sterile technique, disinfection, sterilization, instrumentation, surgical counts, draping, wound management, and sharps handling.

#*STS2361, The Art of Teamwork in Surgery
15 hrs., 1 cr.
This course will introduce student to the principles of Human Factors science as applied to the system of care, teaching them about the skills needed to function effectively and safely in teams in a modern surgical environment. The course will cover the background psychology of interpersonal interactions and the evidence from other industries on the barriers to safe and effective team communication and cooperation. Students will develop their teamwork and communication skills, explore the principles of hierarchy and power distance, personal styles and coping strategies, situational awareness, secure communications loops, use of checklists and standard operating procedures, how to deal with team dysfunction, leadership, followership, effective briefing and debriefing, models of risk and error in health care, and the principles of risk minimization in systems involving humans.

#*STS2365, Professional Skills for the OR Team
15 hrs., 1 cr.
This course will introduce students to the principles of professionalism including such topics as how to work well with many different people/cultures, how to demonstrate respect for and place value on different perspectives, the importance of providing and responding to construction criticism, mechanisms which can help the individual work well under pressure, discussions regarding the willingness to work hard, discussions regarding multi-tasking and safety procedures which can enhance the ability to complete a variety of tasks simultaneously, the importance of professional organizations, the credentialing process, and how to work within the committee process.

STS2367, Management in Healthcare
45 hrs., 3 crs.
Introduces the basics of management in the healthcare setting for the supervisor to middle management level includes interpersonal skills, budget management, inventory management, performance appraisal, and policy formation.

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+#*STS2370, Surgical Assisting Clinical I
210 hrs., 3 crs.
$17.00 lab fee
Prerequisite STS2330L.
SFA clinical internship which includes the evaluation of the student's performance regarding the critical elements of the surgical first assistant's responsibilities.

+#*STS2371, Surgical Assisting Clinical II
210 hrs., 3 crs.
$380.00 lab fee
Prerequisite: STS2370.
SFA clinical internship which includes the evaluation of the student's performance regarding the critical elements of the surgical first assistant's responsibilities.

#STS2943, SA Scrub Role Clinical
210 hrs., 3 crs.
Prerequisite: STS1310L and STS2952.
Clinical practicum for the non-certified SA student to complete the scrub role case requirements which includes the evaluation of the student's performance regarding the critical elements of the surgical technologist in the first scrub role.

#STS2944, Surgical Technologist Clinical I
205 hrs., 3 crs.
Prerequisite: STS1310L.
Clinical course is designed to prepare students for preoperative, intra-operative, and postoperative surgical procedure 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 attitudes, 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. Depth of coverage, role performance, and case completion requirements for graduation are determined by the current edition of the Core Curriculum for Surgical Technologists as published by the Association of Surgical Technologists.

+#STS2945, Surgical Technologist Clinical II
210 hrs., 3 crs.
$208.00 lab fee
Prerequisite: STS2944.
Clinical course designed to prepare students for preoperative, intra-operative, and postoperative surgical procedure 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 attitudes, 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. Depth of coverage, role performance, and case completion requirements for graduation are determined by the current edition of the Core Curriculum for Surgical Technologists as published by the Association of Surgical Technologists.

#STS2950, Surgical Assisting Portfolio I
15 hrs., 1 cr.
Corequisite: STS2370.
Course is designed to prepare the SA surgical student for the surgical setting and empoyment by incorporating case preparation techniques into a final document describing their experiences and coursework preparing them for a lifetime of continuing education. Activities will include the design of their own student portfolio which will document their accomplishments in the program, presenation, papers, case preparation, and their experiences in the clinical settings.

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+Prerequisite and/or corequisite required.
=PSAV course.
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*Minimum grade of "C" required.

#STS2951, Surgical Assisting Portfolio II
15 hrs., 1 cr.
Corequisite: STS2371.
Course is designed to prepare students for the surgical setting and employment by incorporating case preparation techniques into a final document describing their experiences and coursework preparing them for a lifetime of continuing education. Activities will include the design of their own student portfolio which will document their accomplishments in the program, presentation, papers, case peparation, and their experiences in the clincial setting. Includes a comprehensive module to assist students in preparing for the certification examinations.

#STS2952, SA Scrub Role Portfolio
15 hrs., 1 cr.
Corequisite: STS2943.
Course is designed to prepare the non-certified surgical students for the surgical setting in the scrub role and employment by incorporating case preparation techniques into a final document describing their experiences and coursework preparing them for a lifetime of continuing education. Activities will include the design of their own student portfolio which will document their accomplishments in the program, presentations, papers, case preparation, and their experiences in the clinical setting.

#STS2953, Surgical Technologist Portfolio I
15 hrs., 1 cr.
This course is designed to prepare students for the surgical setting and employment by incorporating case preparation techniques into a final document describing their experiences and course work preparing them for a lifetime of continuing education. Activities will include the design of their own student portfolio which will document their accomplishments in the program, presentations, journals, papers, case preparation, and their experiences in the clinical setting.

#STS2954, Surgical Technologist Portfolio II
30 hrs., 2 crs.
This course is designed to prepare students for the surgical setting and employment by incorporating case preparation techniques into a final document describing their experiences and course work preparing them for a lifetime of continuing education. Activities will include the design of their own student portfolio which will document their accomplishments in the program, presentations, journals, papers, case preparation, and their experiences in the clinical setting.

SUR – SURVEYING & RELATED AREAS

+SUR2101, Surveying and Measurements
3 hrs., 3 crs.
Prerequisites: EGN1110C, MTB1322, or MAC1114. Includes distance measurements; theory and practice of leveling; angles and bearings; principles and use of transits, theodolites, EDMs and laser equipment; curves; stadia; topographic surveying; property surveying, and construction surveying.

+SUR2101L, Surveying and Measurements Laboratory
3 hrs., 1 cr.
Corequisite: SUR2101.
Laboratory and field assignments coordinated with SUR2101.

+#SUR2533C, Introduction to Global Positioning Systems
3 hrs., 3 crs.
Prerequisite: ETD1320.
Provides students with the basic theory of Geographic Information System (GIS) and Global Positioning System (GPS) to solve practical engineering problems using the orbital Satellite Navigation System.

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=PSAV course.
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*Minimum grade of "C" required.

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SYG – SOCIOLOGY, GENERAL

SYG2000, Principles of Sociology
3 hrs., 3 crs.
This course provides an introduction to the concepts, theories, and methods of sociology. Major topics include: society and culture, personality and socialization, individuals, groups and institutions, deviance, crime, and social control; social class, family, age and aging, health and medicine, race and ethnicity, population and environment, tourism, social movements, technology, and social change.

+SYG2010, Social Problems
3 hrs., 3 crs.
The course provides an introduction to the concepts, theories, and methods of the sociological study of social problems. Major topics include: the origins and trends of social problems and their associated solutions with a focus on poverty and inequality, racism, sexism, substance abuse, crime and violence, urban and environmental problems, technology, and social change.

SYG2430, Marriage and Family Living
3 hrs., 3 crs.
This course is an analysis of courtship, mate selection, engagement, marriage, and child rearing, with emphasis on the contemporary American family.

TAR – TECHNICAL ARCHITECTURE

+TAR1120, Architectural Drafting
1 hr., 1 cr.
Prerequisite: EGN1110C. Corequisite: TAR1120L.
Review of fundamentals of drafting concepts and application to architectural design. Understanding of basic architectural concepts is made by using residential plans to develop details, symbols, and an understanding of sound architectural design.

+TAR1120L, Architectural Drafting Lab
6 hrs., 3 crs.
$79.00 lab fee
Prerequisite: EGN1110C. Corequisite: TAR 1120.
Investigation and implementation of lecture content with emphasis on drafting solutions.

+#TAR2122, Residential Architectural Design
1 hr., 1 cr.
$81.00 lab fee
Prerequisite: TAR1120. Corequisite: TAR2122L.
A continuation of Architectural Drafting with emphasis on light construction principles. The student will design a multi-level residence and develop all details, presentation drawings, and a scale model.

+#TAR2122L, Residential Design Lab
6 hrs., 3 crs.
$81.00 lab fee
Corequisite: TAR2122.
Investigation and implementation of TAR 2122 lecture content with emphasis on drafting solutions using computer-aided design system.

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*Minimum grade of "C" required.

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+TAR2154, Commercial Architectural Design
1 hr., 1 cr.
$81.00 lab fee
Prerequisite: TAR1120. Corequisite: TAR2154L.
A continuation of Architectural Drafting with emphasis on structural and mechanical systems design. Students will design a commercial building of their choice, making a complete set of details and presentation drawings. Emphasis will be placed on using computer-aided design and equipment software.

+TAR2154L, Commercial Design Lab
6 hrs., 3 crs.
$81.00 lab fee
Prerequisite: TAR1120. Corequisite: TAR2154.
Investigation and implementation of TAR2154 lecture content with emphasis on drafting solutions using computer-aided design system.

TAX - TAXATION

#TAX1000, Principles of Taxation I
3 hrs., 3 crs.
A survey of federal income taxation with primary emphasis on the taxation of individuals.

#TAX1010, Principles of Taxation II
3 hrs., 3 crs.
Concepts and methods of determining income of estates, trusts, partnerships, and corporations for tax purposes; interpretation of internal revenue code, related regulations, and tax form preparation.

THE – THEATRE STUDIES AND GENERAL RESOURCES

THE1925, Play Production
3 hrs., 1 cr.
Participation in theatrical productions with work in preparation and performance, including both acting and technical fields. (May be repeated up to three times for credit.)

THE2000, Understanding Theatre
3 hrs., 3 crs.
(Meets Fine Arts Humanities requirement).
Introduction to theatre with stress on the performer-audience relationship. Theatrical styles, dramatic structure, technical design, acting techniques, and criticism studied within a framework of aesthetic exchange between the actors and their audience.

THE2071, Survey of Film
3 hrs., 3 crs.
 (Meets Fine Arts Humanities requirement).
An introduction to film analysis. A look at the artistic and technical elements of filmmaking. Topics include: narrative, genre, cinematography, acting, editing, sound, film history, filmmaking technologies and production systems. Through this course, students develop criteria for evaluating and enjoying films. Online E-book optional.

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+THE2305, Script Analysis
3 hrs., 3 crs.
Prerequisites: THE2000, TPP2110.
An introduction to dramatic structure and methods of script analysis as a preparation for writing, directing, designing, performing and criticizing plays.

TPA – THEATRE PRODUCTION AND ADMINISTRATION

+*TPA1210, Stagecraft I
3 hrs., 3 crs.
Corequisite: TPA1290L.
This course serves as an introduction to the technical aspects of theatre. It will provide a basic understanding of tools and their operation in set construction along with providing opportunities to apply that knowledge. In addition, this course will cover other backstage topics such as painting, AV hookup, and basic electrical safety.

+*TPA1211, Stagecraft II
3 hrs., 3 crs.
Prerequisite: *TPA1210, *TPA1290L.
Corequisite: TPA1291L.
This class serves as an continuation of TPA1210 and TPA1290L. This class focus on advanced construction, rigging, and basic scenic sculpting.

TPA1220, Introduction to Stage Lighting
3 hrs., 3 crs.
This course is an introduction to the fundamentals of
lighting the stage, including a basic introduction to electricity, stage lighting instrumentation and control, color science, and an introduction to lighting design
to create theatrical mood and interpretation of a production. Work outside of class on productions is required. Students will serve on lighting crews for hands-on application of the classroom material.

+TPA1290L, Technical Lab
3 hrs., 2 crs.
Corequisite: *TPA1210.
This lab provides students the opportunity to gain practical experience in the safe use of tools and equipment used in set construction. In addition, this course will provide students with opportunities to work backstage as production and run crew.

+*TPA1291L, Technical Theatre Lab II
3 hrs., 2 crs.
Prerequisites: *TPA1210, *TPA1290L.
This lab serves as a continuation of TPA1210 and TPA1290L allowing students to gain practical experience in technical theatre skills. This class will focus on set construction, rigging, and basic scenic sculpting.

TPA1340, Drafting for the Theatre I
3 hrs., 3 crs.
Students will receive instruction on the use of AutoCAD 2015 drawing techniques and how to use them in theatrical application. Through instruction, exercises, and projects, students will demonstrate competence in the use of computer and hand drafting.

+TPA2000, Theatre Design Basics
3 hrs., 3 crs.
Prerequisite: THE2000.
Basic design skills for scenic, lighting, and costume design using color, grayscale, textures, and symmetry to create a strong stage presence.

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+TPA2070, Scenic Painting and Sculpting
3 hrs., 3 crs.
Prerequisite: *TPA1210.
This course is an introduction to the tools, materials, and techniques used to paint and sculpt scenery for the theatre.

+*TPA2077, Advanced Scenic Painting Sculpting
3 hrs., 3 crs.
Prerequisite: *TPA2070.
This course is an introduction to the tools, materials, and techniques used to paint scenery for the theatre. Assigned practical work in supervised production activities outside of class is required, with a minimum of 15 hours for the term.

TPA2200, Stagecraft
3 hrs., 3 crs.
$8.00 lab fee
This course serves as an introduction to the technical aspects of theatre. It will provide a basic understanding of tools and their operation in set construction along with providing opportunities to apply that knowledge. In addition, this course will cover other backstage topics such as paint, rigging, and electrics.

TPA2212, Sound for the Stage
3 hrs., 3 crs.
This course is an introduction to the application and principles of theatre sound. The course includes training in the use and maintenance of theatre sound equipment, recording and editing sound effects, and training in electronic sound reinforcement.

+TPA2221, Advanced Stage Lighting
3 hrs., 3 crs.
Prerequisite: *TPA1220.
Corequisite: TPA2293L.
This course is a continuation of TPA1220, Introduction to Stage Lighting, with more emphasis on lighting design, and for developing a lighting design portfolio. Work outside of class on productions is required. Qualified students will be given design assignments on productions.

+*TPA2292L, Technical Theatre Lab III
3 hrs., 2 crs.
Prerequisite: *TPA1291L.
This course focuses on developing crew heads and team leaders within the program. Students will be assigned crew role based on the needs of the upcoming GCSC productions and student's chosen area of focus. Students in TPA2292L are expected to serve as leaders and mentors to students currently enrolled in TPA1290L and TPA1291L. While, this course continues to expand the students technical skills and knowledge, there is a high degree of focus on problem solving and applying the knowledge gained in TPA1290L/1291L in the unpredictable backstage environment.

+*TPA2293L, Technical Theatre Lab IV
3 hrs., 2 crs.
Prerequisite: *TPA1291L.
The course includes practical experience in the backstage operations of a theatre. The course will emphasize skills in working independently with a high level sense of responsibility for the work assigned. The concentration of this course will vary depending on the skills of students and the needs of the theatre.

+*TPA2341, Drafting for the Theatre II
3 hrs., 3 crs.
Prerequisite: *TPA1340.
Students will receive instruction on the use of AutoCad 2015 drawing techniques and how to apply them to theatrical applications. Through instruction, exercises and projects, students will gain confidence in the use of computer drafting.

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TPA2930, Special Topics in Entertainment Technologies
3 hrs., 3 crs.
This class is offered for qualifying students in their final semester before graduation with the A.S. degree in Entertainment Technology. Students will produce work, both individually and in small groups, to demonstrate their competencies in all areas within the program. Individual projects will be designed for students to showcase their strengths as well as to improve upon their weaknesses. These projects will be assessed by members of the instructional program, fellow students, and invited industry professionals. Permission of instructor is required.

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TPP – THEATRE PERFORMANCE AND PERFORMANCE TRAINING

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TPP1500, Movement Techniques for the Theatre
3 hrs., 3 crs.
In-depth study of inner resources: Believable action through developing imagination, observation, concentration, sense recall, emotional response as preparation for stage movements, crosses, gesturing, body positions, motivation and stage business. Practical application of move-ment studies will be made through class use of scenes from plays or one-act plays.

TPP1700, Voice Techniques for the Theatre
3 hrs., 3 crs.
In-depth study of improving voice techniques, oral reading, retelling stories, interpreting lines and memorization. Application of techniques will be made through reading poetry, scenes and scripts for commercials, television, and radio. Voice for the theatre and amplified voice techniques are included.

TPP2110, Acting I
3 hrs., 3 crs.
Study of the acting process, including basic acting techniques, preparation, improvisa-tion, role-playing, text analysis, and character development with emphasis on a truthful and honest approach.

+TPP2111, Acting II
3 hrs., 3 crs.
Prerequisite: TPP2110 or consent of instructor.
Advanced study of characterization through the use of effective preparation, the review of essential acting techniques, and the application of these in monologues, scenes, and audition pieces.

TPP2250, Introduction to Musical Theatre
3 hrs., 3 crs.
Study of musical theatre analysis, creation, and performance applied through the study of voice, dance, and acting.

+TPP2300, Directing I
3 hrs., 3 crs.
Prerequisites: THE2000 and TPP2110 or permission of instructor.
Introduction to the fundamental principles and techniques of play direction to include script selection and analysis, casting, composition, picturization, blocking, interpreta-tion, and staging of plays.

+TPP2930, Selected Topics in Theatre Performance
3 hrs., 3 crs.
Prerequisite: TPP2110.
Rotating topics in theatre performance such as period acting styles, advanced scene study, creation of new works, circus training, and stage combat. May include field work as part of the curriculum. (May be repeated up to two times for credit).

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TRA – TRANSPORTATION AND LOGISTICS

+TRA2010, Transportation and Distribution
3 hrs., 3 crs.
This course explores the role and importance of transportation in the distribution of goods.

+TRA2131, Purchasing and Inventory Management
3 hrs., 3 crs.
This course provides a comprehensive introduction to the purchasing and supply chain management field.

TRA2154, Introduction to Supply Management
3 hrs., 3 crs.
This course provides a general knowledge of supply chain management and the associated functions necessary for delivery of goods and services to customers.

+TRA2230, Warehouse Management
3 hrs., 3 crs.
This course covers warehousing function, facility operations, financial analysis, and productivity improvement and measurement.

WST – WOMEN'S STUDIES

WST2010, Introduction to Women's Studies: Women and Their Communities
3 hrs., 3 crs.
This course introduces students to the study of major issues relevant to the female experience in Western Civilization and to the significance of gender in society. Students will be exposed to the major feminist theories that have shaped scholarship and lives. Emphasis will be placed upon the ways in which women have responded to the challenge of community.

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*Minimum grade of "C" required.

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<u>Florida's Statewide Course Numbering System</u>

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 http://scns.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."

Example of Course Identifier

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, a freshman composition skills course is offered by 84 different public and nonpublic postsecondary institutions. 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 that has the same prefix and course number but 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.

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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.

A. Courses not offered by the receiving institution.
B. For courses at nonregionally accredited institutions, courses offered prior to the established transfer date of the course in question.
C. Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses, and Dissertations.
D. Applied academics for adult education courses.
E. Graduate courses.
F. Internships, apprenticeships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999.
G. 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 Nonregionally Accredited Institutions

The SCNS makes available on its home page (http://scns.fldoe.org) a report entitled "Courses at Nonregionally 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 SCNS and appeals regarding course credit transfer decisions should be directed Dr. George Bishop in the Office of the Vice President for Academic Affairs and Learning Support at Gulf Coast State College or to 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 SCNS office at (850) 245-0427 or at http://scns.fldoe.org.

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Lavender, Melissa M.
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Assistant Coordinator, Physical
Therapist Assistant Program
Assistant Professor
A.A., Gulf Coast Community College
A.S., Gulf Coast Community College
B.S., Troy University
M.S., A.T. Still University

Watley, Sharon (2013)
Coordinator, Workforce Center
B.S., Albany State University

Webb, Jamieson D. (2003)
Professor, Physical Science
B.S., Auburn University
M.S., Auburn University

Wells, Douglas A. (2001)
Professor, Language and Literature
A.A., Florida Community College at
Jacksonville
B.A., University of South Florida
M.A., University of South Florida

Wells-Beede, Elizabeth R. (2013)
Assistant Professor, Health Sciences
B.S., University of New Mexico
M.S., University of Phoenix

Wenzel, Jason B. (2012)
Assistant Professor, Sociology
B.A., University of Central Florida
M.A., University of Central Florida

Westlake, Christopher J. (2000)
Executive Director of Student Financial
Services
B.S., Southeast Missouri State
University
M.B.A., Florida State University

Whitehead, Jantzen W. (2014)
Academic Advisor
A.A., Chipola College
B.A., University of West Florida
M.S., Troy University

Williams, A. Scott (2003)
Coordinator, Emergency Medical
Services Program
Assistant Professor
A.S., Pensacola Junior College
B.S., University of West Florida

Williams, Kelly L. (2012)
Writing Lab Coordinator
B.A., University of Connecticut
M.A., Sacred Heart University

Wise, Stephen C. (1998)
Assistant Coordinator, Health Sciences
Admissions
B.S., Troy State University

Wolfe, Gregory C. (1991)
Chair, Wellness and Athletics
A.A., Gulf Coast Community College
B.S., Florida State University
M.S., Florida State University

Womble, Lauriann (2007)
Assistant Coordinator, Dental Assisting
A.S., Gulf Coast Community College
A.A. Gulf Coast Community College
B.S., NOVA Southeastern University

Wood, Glenda M. (2007)
English Learning Manager
B.S., Florida State University

Woodham, Patti D. (1998)
Professor, English
B.A., University of Alabama
M.A., University of Alabama

Yarbrough, Sharon T. (2013)
Aquatics Specialist, Wellness and
Athletics
B.A.S., Our Lady of the Lake University
M.E., Stephen F. Austin State University

EMERITUS/EMERITA

Adair, Linda B. (1975-2008)
Vice President Emerita
B.S., Furman University
M.A., University of West Florida
Ph.D., University of North Carolina

Baugh, Anna Marie (1970-1998)
Professor Emerita
B.S., Florida State University
M.S., Nova University

Breegle, Winifred M. (2001-2008)
Professor Emerita
B.A., West Liberty State Teachers
College

Burch, Ivie R. (1966-1991)
Professor Emeritus
B.S., Florida A & M University
M.Ed., Florida A & M University

Buttermore, Joyce K. (1987-2010)
Professor Emerita
B.S., Western Illinois University
M.A., University of Oklahoma

Campbell, Letha J. (1977-1998)
Professor Emerita
A.A., Rosenwald Junior College
B.S., Florida A&M University
M.E., Florida A&M University

Ciccarelli, Saundra K. (1981-2012)
Professor Emerita
B.A., University of Dayton
M.S., Peabody College
Ph.D., Peabody College of Vanderbilt
University

Davenport, Rosemary L. (1984-2011)
Professor Emerita
A.S., Freed Hardeman College
B.S., Middle Tennessee State University
M.S.T., Middle Tennessee State
University

Daugherty II, George I. (1987-2001)
Professor Emeritus
M.S., University of Texas
D.D.S., Marquette University

Etheridge-Barkley, Sandra (1967-2003)
Professor Emerita
B.S., Limestone College
M.A.T., Duke University
Ph.D., Florida State University

Gibson, Dauhrice K. (1973-2003)
Professor Emerita
A.A., Gulf Coast Community College
B.S., Florida State University
M.Ed., Auburn University

Hair, Norman J. (1958-1993)
Professor Emeritus
B.S., Troy State College
M.M., University of Montevallo

Henry, Cordell V. (1967-1994)
Professor Emeritus
B.S., East Central Oklahoma State
College
M.N.S., State University of South
Dakota

Higgins, Margaret Ann (1965-1998)
Professor Emerita
A.A., Jones Junior College
B.A., Mississippi College
M.R.E., Southwestern Baptist
Theological Seminary
M.S., University of Southern Mississippi
Ed.D., Florida State University

Jack, Elkin Terry (1973-2009)
Professor Emeritus
B.A., Southeastern Louisiana College
M.A., University of Southern Mississippi
Ph.D., University of Southern Mississippi

Jones, Robert C. (1969-2003)
Professor Emeritus
B.A., University of Northern Iowa
M.A., Colorado State College

McFatter, Janice (1966-2003)
Professor Emerita
B.S.E., Henderson State Teachers College
M.A., University of Arkansas

McSpadden, Robert (1969-2008)
President Emeritus
A.A., Gulf Coast Community College
B.S., Florida State University
M.S., Florida State University
Ed.D., Florida State University

Miller, Leon (1969-1999)
Counselor Emeritus
B.A., Wiley College

Olmstead, Sheila C. (1971-2007)
Professor Emerita
B.S., Florida State University
M.S., Florida State University

Pelt, Peggy D. (1972-2008)
Professor Emerita
B.S., University of Southern Mississippi
M.S., University of Southern Mississippi
Ph.D., Florida State University

Penton, Sr., Ronald A. (1989-2012)
Professor, Emeritus
A.A., Los Angeles Community College
B.S., University of Maryland
M.A., Pepperdine University

Poole, Dennis K (1984-2009)
Professor Emeritus
B.S., San Diego State University
M.S., San Diego State University

Preston, Sandra E. (1970-2004)
Professor Emerita
B.A., University of Florida
M.A., University of Florida
Ph.D., Florida State University

Reese, Donald E. (1983-2008)
Professor Emeritus
B.A., Southern Colorado State College
M.P.A., University of Georgia

Richards, Ann V. (1977-1998)
Professor Emerita
B.S., Georgia State University
M.A., University of West Florida

Sale, William Frederick (1967-2003)
Professor Emeritus
A.A., Tyler, Texas Junior College
B.A., North Texas State University
B.D., Southwestern Baptist Theological Seminary
Th.M., Southwestern Baptist Theological Seminary
M.Div., Southwestern Baptist Theological Seminary

Stewart, Richard B. (1979-2010)
Professor Emeritus
B.S., Troy State College
M.B.A., Florida State University

Strickland, Carolyn S. (1973-2007)
Professor Emerita
B.S., University of Alabama
M.A., University of Alabama

Suggs, T. Sue (1974-2009)
Professor Emerita
A.S., Gulf Coast Community College
B.S., University of West Florida
M.S., Florida State University

Syfrett, Ann S. (1969-2003)
Professor Emerita
B.S.N., University of Florida
M.N., University of Florida

Vandervest, James F. (1980-2010)
Professor Emeritus
B.S., Western Michigan University
M.A., Western Michigan University

Whitelock, Pamela L. (1973-2004)
Dean Emerita
A.A., Gulf Coast Community College
B.A., University of West Florida
M.Ed., Middle Tennessee State University

Williams, Willard J. (1984-2011)
Professor Emeritus
A.A., Gulf Coast Community College
B.A., University of West Florida
M.B.A., University of West Florida

Wilson, Gerry S. (1984-2009)
Professor Emerita
B.A., Emory University
M.A., Northwestern University

Wright, Robert E. (1981-2003)
Professor Emeritus
A.A.S., Community College of the Air Force
A.S., Gulf Coast Community College
B.S., Florida State University

Career Service Personnel

Acton, Rebecca L. (2013)
Administrative Assistant

Akins, Debra B. (2000)
Data Analyst
A.A., Gulf Coast State College

Allen, Scott N. (2013)
Custodian

Allman, Pam A. (2012)
Executive Administrative Assistant
A.A., Okaloosa Walton Jr. College
B.S., University of West Florida

Aucoin, Grace A. (2014)
Senior Administrative Assistant
B.S. Southeastern Louisiana University

Balilo, Aryn R. (2010)
Intake Orientation Assistant

Banks, Melissa A. (2006)
Senior Bookkeeper, Payroll
A.A., Chipola Jr. College

Baskevic, Sharon M. (2011)
Executive Administrative Assistant
A.A., State University of New York

Bass II, Michael L. (2015)
Groundskeeper

Berdanier, Nancy V. (2012)
Senior Administrative Assistant
A.A., Gulf Coast State College

Bland, Catherine M. (2011)
Senior Bookkeeper
A.A., Gulf Coast State College

Bois, Melissa L. (2013)
Senior Administrative Assistant

Brewer, Carol A. (2006)
Senior Administrative Assistant
A.S., Gulf Coast State College

Brooks, Judi W. (2010)
Certification Officer
A.A., Gulf Coast State College

Brown, Darby H. (2000)
Senior Administrative Assistant

Brown, Harold (2000)
Custodian

Bundy, Lori L. (2014)
Custodian

Cain, Larry L. (2002)
Facilities Maintenance, Remote Campus

Carter, Curtis J. (1986)
Producer/Specialized Programs
A.S., Gulf Coast Community College

Carter, Ronald C. (2014)
CLI Computer Lab Technician NTCO
A.A., Gulf Coast State College
A.S., Gulf Coast State College

Cassani, Tamara M. (2000)
Executive Administrative Assistant
A.A., Gulf Coast Community College

Chan, Gerard D. (1992)
Assistant Bookstore Manager
B.S., FEATI University

Chappelle, Geraldine (1999)
Administrative Assistant
Childree, Nicole D. (2014)
Senior Administrative Assistant

Chrencik, Julia C. (2011)
Senior Administrative Assistant
B.S., Florida State University

Cogburn, Zachary A. (2013)
Media Services Technician

Collins, Bridget D. (2013)
Human Resource Assistant

Dallas, Whitney A. (2009)
Senior Administrative Assistant
A.A., Gulf Coast Community College

Darko, Michelle E. (2003)
Switchboard Operator

Dempsey, Earlie D. (2014)
Custodian

Donar, Ronald D. (2014)
Groundskeeper

Edwards, Carla R. (2006)
Administrative Assistant

Felice, Paul E. (2008)
Groundskeeper

Fraioli, Tiffany R. (Tiff) (2011)
Senior Administrative Assistant
A.A. Gulf Coast State College
B.A., Florida State University

Freeman, Lonnie C. (1994)
Custodian

Fuller, Jr., John W. (2008)
Auxiliary Worker IV, Bookstore
A.A., Gulf Coast Community College
B.S., Florida State University
M.S., Troy University

Gannaway, Judith D. (Judi) (2013)
Senior Administrative Assistant

Gillespie, John C. (2013)
Custodian

Gipson, Debra (2015)
Executive Administrative Assistant
A.A., Valencia Community College

Givens, Lee F. (2005)
Custodian

Goldsberry, Charlana R. (2015)
Computer Network Technician
A.A., Gulf Coast State College

Good, Brenda L. (1994)
Senior Bookkeeper

Gray, Juan M. (2013)
Custodian

Gray, Monica (2015)
Custodian

Green, Collette (1999)
Senior Administrative Assistant

Green, Thelma D. (2015)
Custodian

Greig, James E. (Jim) (2010)
Facilities Maintenance Remote Campus
A.S., Massasoit Community College

Hart, Donald E. (2006)
Custodian

Hillard, Kara M. (2009)
Testing Assistant
A.A., Gulf Coast Community College

Hinton, Richard N. (2014)
Testing Assistant
B.S., Northeast Missouri State College

Horton, Alice J. (AJ) (2011)
Network Support Technician

Hughes, Thomas M. (2005)
Media Services Technician

Hunt, Marissa L. (2010)
Intake Orientation Assistant
A.A., Saint Catherine College

Kelly, Elizabeth A. (2002)
Senior Administrative Assistant
A.A., Gulf Coast State College

Krutchek, Kimberly A. (2002)
Media Services Technician

Lewis, Melannie F. (2011)
Senior Bookkeeper

Lindman, Lisa I. (2001)
Executive Administrative Assistant
A.A., Gulf Coast Community College

Long, James R. (1985)
Maintenance Mechanic II

Long, Kelley R. (2001)
Intake Orientation Assistant

Long, Margaret A. (1990)
Senior Administrative Assistant

Maddox, Wanda G. (2010)
Executive Administrative Assistant

McClinton, Horace (1999)
Custodian

McCullough, Larry D. (2008)
Head Custodian

McDougall, Jr., James C. (Jim) (2010)
Supervisor Facilities Management

McDougall, James D. (Jimmy) (2012)
HVAC Technician

McNamara, Robin B. (2004)
Computer Lab Technician

McNear, Latoria O. (1998)
Custodian

Merlo, Michael (2013)
Maintenance Mechanic II

Mifsud, Emily R. (2013)
Senior Administrative Assistant

Miller, Loretha P. (2010)
Administrative Assistant

Moniz, Donald J. (2012)
Facilities Maintenance Remote Campus

Morris, Kurt R. (2013)
Engineering Technician
A.A.S., Gulf Coast State College

Naas, Rhoda J. (2014)
Administrative Assistant
A.S. (2), Kentucky Community &
Technical College System

Packard, Linda G. (2002)
Custodian

Peeples, Rachel F. (2015)
WKGC Marketing Associate
A.A., Gulf Coast State College
B.S., Florida State University

Peterson, Donna W. (2006)
Executive Administrative Assistant

Pierson, Jennifer R. (2008)
Bookstore
B.S., University of Phoenix

Pringle, Debra L. (1999)
Receptionist
A.S., Enterprise State Jr. College

Quarles, Lori J. (2014)
Human Resource Assistant
A.A. S., Gulf Coast State College

Ramsey, Rebecca L. (2008)
Financial Aid Assistant II
A.A., Quinsigamond Community College

Rice, Ronald W. (2001)
Maintenance Mechanic II, Remote
Campus

Rissmann, Mark A. (1999)
Maintenance Mechanic II

Robinson, Stephanas (2014)
Groundskeeper

Rosensweig, Caroline H. (Heidi) (2010)
Senior Administrative Assistant
B.S., Clemson University

Ruggieri, Mark J. (2008)
Facilities Maintenance Remote

Santoru, Misti D. (2013)
Senior Administrative Assistant

Sheffield, Darren E. (2006)
Custodian

Sherfield, Christine (2007)
Facilities Maintenance Remote

Sherman, Richard P. (2010)
Computer Operator
A.A., Art Institute of Atlanta

Spencer, Scott T. (2003)
Senior Administrative Assistant

Stanley, Susan D. (2001)
Human Resource Assistant

Strayer, Patricia A. (2014)
Senior Administrative Assistant
Gulf/Franklin Campus

Striplin, Roy B. (2000)
Maintenance Mechanic III

Stroup, Patty L. (2013)
Financial Aid Assistant II

Sullins, Jackie J. (2009)
Receiving and Inventory Clerk

Taliaferro, Brenda W. (2015)
Custodian

Terryn, Dorothy A. (Dottie) (1986)
Senior Bookkeeper, Accounts Payable
A.A., Gulf Coast Community College
B.S., Florida State University

Todd, Ernest R. (2007)
Lead Groundskeeper

Vrabel, Theresa S. (2010)
Senior Administrative Assistant

Varner, Arnold C. (1990)
Supervisor, Physical Plant

Varner, Jaymar T. (Jay) (2008)
Computer Lab Technician, NTCO
A.A., Gulf Coast Community College

Varnum, Jerry A. (1996)
Computer Operator
A.S., Gulf Coast Community College

Walding, Justin R. (2010)
Senior Administrative Assistant

Walker, Misty E. (2013)
Senior Cashier
A.A., Gulf Coast State College
B.S., Florida State University

Walker, Shirley A. (1998)
Custodian

Washington, Brenda S. (1998)
Senior Purchasing Assistant/Buyer

Watson, Ronney L. (1982)
Grounds Supervisor

West, Mary G. (2013)
Custodian

Wilkes, Eileen S. (1986)
Executive Assistant to the President
A.S., Albany Business College

Williams, Conroy A. (2014)
Groundskeeper

Williams, Tony M. (2011)
Custodian

Winter, Pamela J. (2008)
Sr. Administrative Assistant

Young, Patricia L. (Patty) (2014)
Records and Credentialing

Zekas, Terresa C. (Carol) (2011)
Administrative Assistant

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