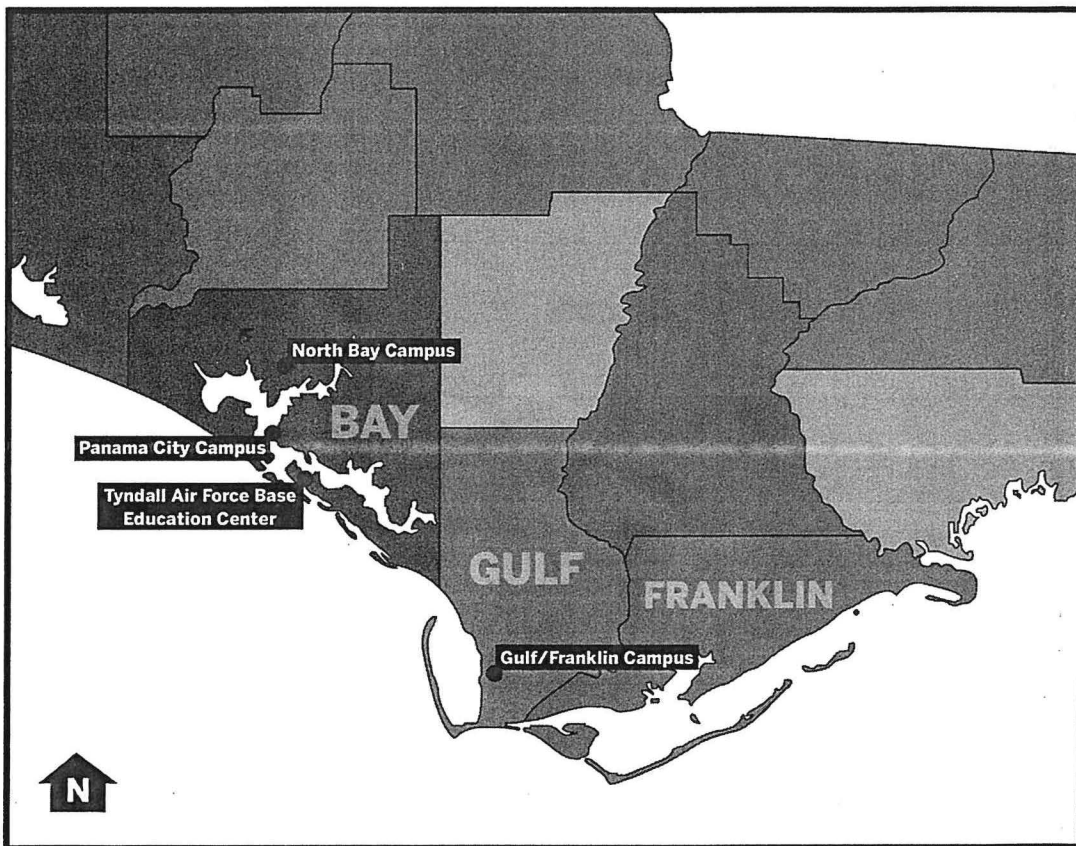

TABLE OF CONTENTS**GENERAL INFORMATION**

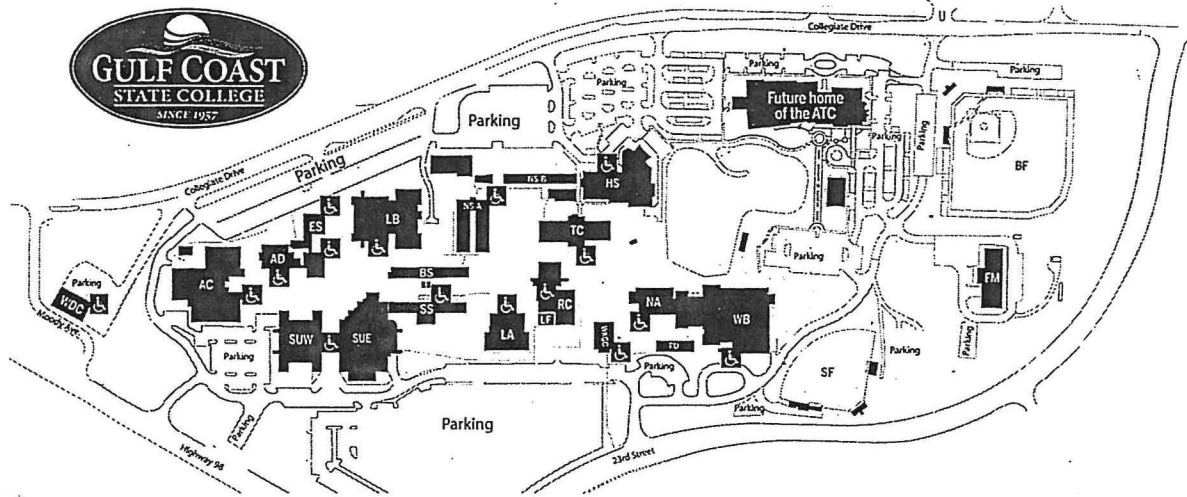
College Location (Maps)	2
2012-2013 College Calendar	6
District Board of Trustees.....	8
STATEMENT OF VALUES, VISION, AND MISSION	9
COLLEGE HISTORY	9
THE GULF COAST STATE COLLEGE FOUNDATION, INC.....	10
THE GULF COAST STATE COLLEGE ALUMNI ASSOCIATION.	10
ADMISSIONS	11
ALTERNATIVE SCHEDULING OPPORTUNITIES	20
FINANCIAL INFORMATION	21
STUDENT SERVICES.....	27
TUTORIAL SERVICES.....	31
STUDENT SUPPORT	31
INSTRUCTIONAL PROGRAMS.....	46
COURSE DESCRIPTIONS	161
FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM	270
ADMINISTRATIVE OFFICERS	272
FACULTY AND STAFF.....	272
INDEX	283



GCSC Service District Bay, Gulf & Franklin Counties



GCSC Panama City Campus



Classroom Sites

- AC -- Amelia G. Tapper Center for the Arts
- BS -- J.R. Asbell Business Building
- HS -- George G. Tapper Health Sciences Building
- LA -- The Russell C. Holley and Herbert P. Holley Language and Literature Building/Sarzin Lecture Hall
- LB -- Library
- LF -- La Friandise
- NA -- Natatorium/Pool
- NS-A -- Natural Sciences Labs/Offices
- NS-B -- Natural Sciences Classrooms/Ken Sherman Science Center
- PD -- Professional Development Center
- RC -- Rosenwald Junior College Classroom Building
- SS -- Social Sciences Building
- SUE -- Student Union East/Gibson Lecture Hall
(Student Development/Continuing Education)
- SUW -- Student Union West
(Bookstore/Mathematics/Success Center)

- TC -- Technology Building
- WB -- Wellness Building/Billy Harrison Field House
- WDC -- Workforce Development Center/ Human Resources
- WKGC -- WKGC-AM/FM Studios

Administrative Sites

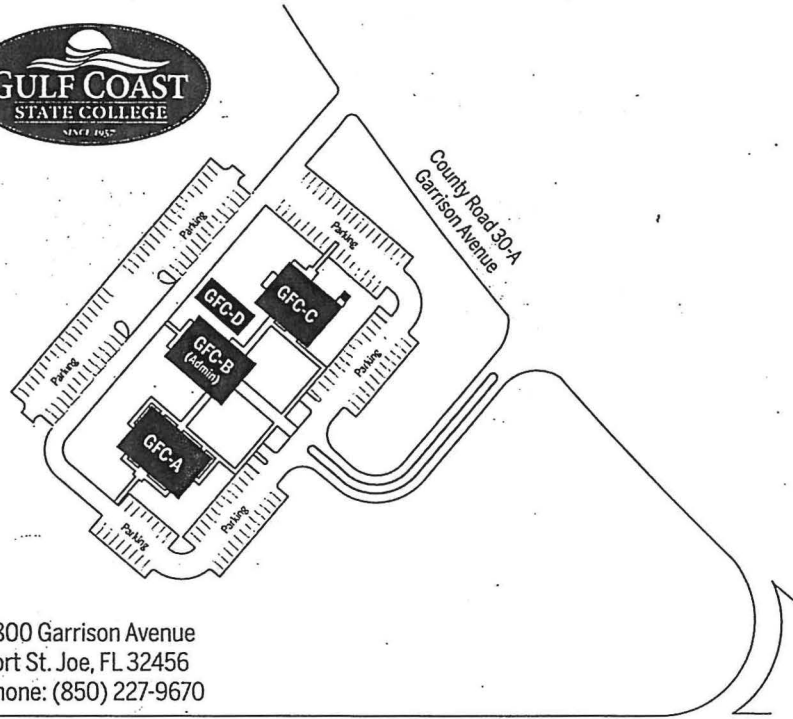
- AD -- Administration Building
- ES -- Enrollment Services Building/Testing/ Admissions/Financial Aid/ E.A. Gardner Advising Center
- FM -- Facilities Management

Sports Complexes

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

 Automatic Doors for Disabled

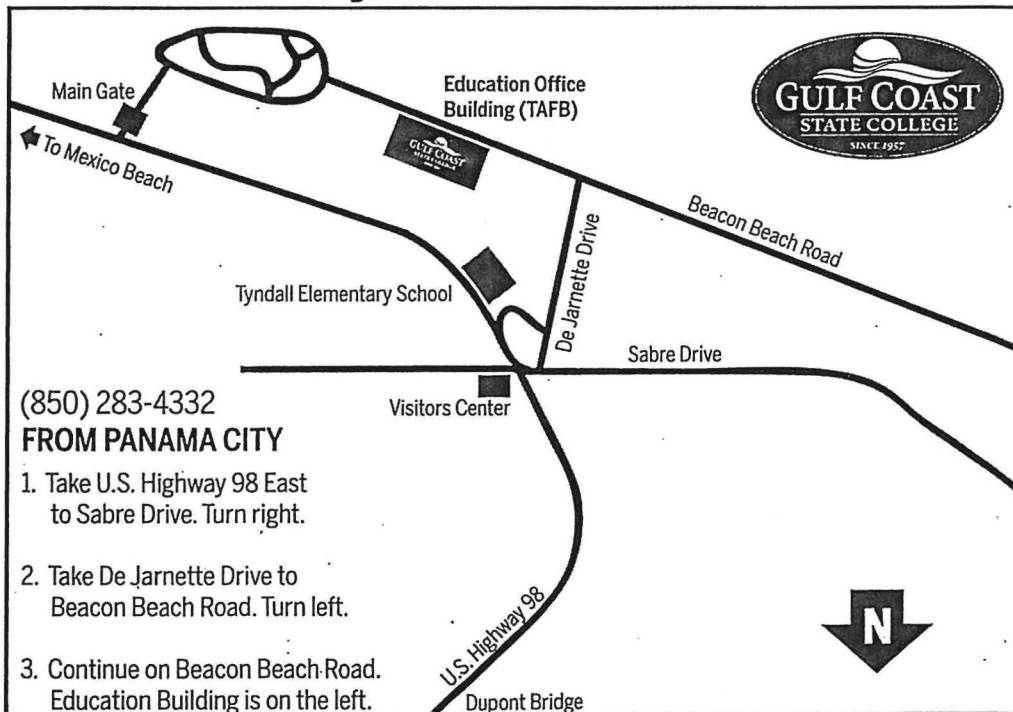
GCSC Gulf/Franklin Campus



3800 Garrison Avenue
Port St. Joe, FL 32456
Phone: (850) 227-9670

U.S. Highway 98

GCSC Tyndall Education Center

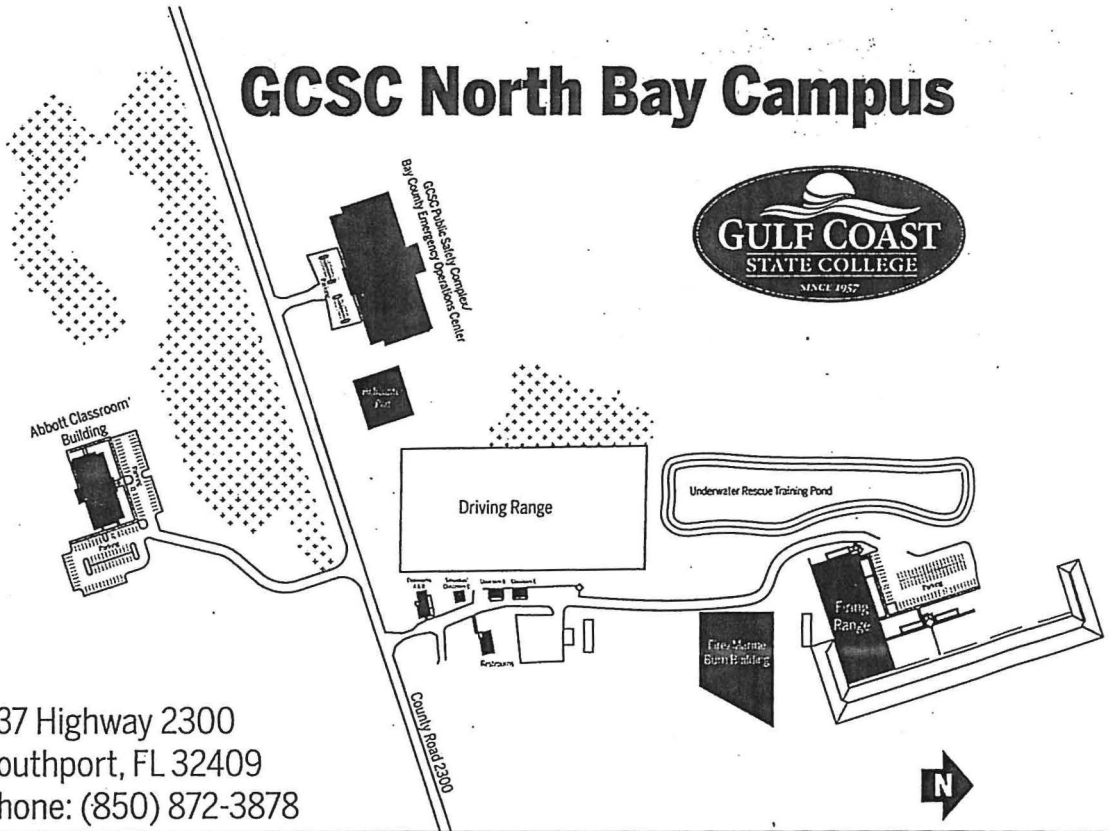


(850) 283-4332
FROM PANAMA CITY

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



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

State Road 77

2012-2013 College Calendar	Fall 2012 (20131)		
	Session A 8/20-12/14	Session B 8/20-10/15	Session C 10/16-12/14
Academic Dates and Deadlines			
Campus Registration (Excludes Sat., Sun., & holidays)**	May 10-July 27 August 15-17	May 10-July 27 August 15-17	May 10-July 27 August 15-Oct. 15
Tyndall Air Force Base Registration (Excludes Sat., Sun., & holidays)**	May 10-July 27 August 15-17	May 10-July 27 August 15-17	May 10-July 27 August 15-Oct. 15
Gulf/Franklin Center Registration (Excludes Sat., Sun., & holidays)**	May 10-July 27 August 15-17	May 10-July 27 August 15-17	May 10-July 27 August 15-Oct. 15
North Bay Center Registration (Excludes Sat., Sun., & holidays)**	May 10-July 27 August 15-17	May 10-July 27 August 15-17	May 10-July 27 August 15-Oct. 15
Web registration will be available when college is closed except for scheduled ma			
Registration Fees Due	August 3	August 3	(After August 3, fees due on Friday after registration occurs)
Classes Begin	August 20	August 20	October 16
Late Registration; Drop/Add	August 20-24	August 20-24	October 16-17
Refund and Audit Registration Deadline	August 24	August 24	October 17
Midterm	October 15	September 17	November 13
Withdrawal Deadline: "W" if passing, "F" if failing	October 22	September 24	November 20
Final Examinations	December 7-13	October 10-12	December 10-13
Term Ends	December 14	October 15	December 14
Grades available via BANNER	December 18	October 17	December 18
Graduation Application Deadline	November 13		
In order for summer graduates to participate in the spring ceremony, they must submit their summer graduation application prior to the spring application deadline. No exceptions.			
Graduation			
Honors Convocation	--	--	--
College Placement Test (CPT)	August 27-January 11		
Student Activities (clubs) will not be held on the following days:	September 3		
	November 12		
	November 22-25		
College Closed for all students and employees.			
In-service Day	August 13		
Memorial Day			
Independence Day			
Labor Day	September 1-3		
Veteran's Day	November 12		
Thanksgiving Holidays	November 22-25		
Christmas Break/New Year's Holiday	December 24-January 1		
Martin Luther King, Jr. Day			
Spring Break			
<i>Gulf Coast Community College reserves the right to change the college calendar, or to make other changes deemed necessary, giving advance notice of change when possible. (01/07/11; 2/14/12)</i>			

Spring 2013 (20132)			Summer 2013 (20133)		
Session A 1/7-5/4	Session B 1/7-3/4	Session C 3/5-5/4	Session A 5/6-7/27	Session B 5/6-6/15	Session C 6/17-7/27
Nov. 5-Dec. 13 January 3-4	Nov. 5-Dec. 13 January 3-4	Nov. 5-Dec. 13 January 3-March 4	April 15-May 3	April 15-May 3	April 15-June 14
Nov. 5-Dec. 13 January 3-4	Nov. 5-Dec. 13 January 3-4	Nov. 5-Dec. 13 January 3-March 4	April 15-May 3	April 15-May 3	April 15-June 14
Nov. 5-Dec. 13 January 3-4	Nov. 5-Dec. 13 January 3-4	Nov. 5-Dec. 13 January 3-March 4	April 15-May 3	April 15-May 3	April 15-June 14
Nov. 5-Dec. 13 January 3-4	Nov. 5-Dec. 13 January 3-4	Nov. 5-Dec. 13 January 3-March 4	April 15-May 3	April 15-May 3	April 15-June 14
intenance windows. (Fall 2012: April 9-October 15; Spring 2013: November 4-March 4; Summer 2013: April 15-June 14 beginning at 12:15 a.					
January 2	January 2	(After January 2, fees due on Friday after registration occurs)	May 1	May 1	(After May 1, fees due on Friday after registration occurs)
January 7	January 7	March 5	May 6	May 6	June 17
January 7-11	January 7-11	March 5-6	May 6-7	May 6-7	June 17-18
January 11	January 11	March 6	May 7	May 7	June 18
March 1	February 4	April 9	June 21	May 24	July 5
March 8	February 11	April 16	June 28	May 31	July 12
April 26-May 2	February 27-March 1	April 29-May 2	July 19-25	June 12-14	July 22-25
May 4	March 4	May 4	July 27	June 15	July 27
May 7	March 6	May 7	July 30	June 18	July 30
February 15	-	-	July 12	July 12	July 12
May 3	-	-			
April 26	-	-			
January 14-May 10	-	-	May 13-Aug. 23		
January 19			May 25-27	July 4	
March 11-17					
			May 25-27		
				July 4	
January 19-21					
March 11-17					

DISTRICT BOARD OF TRUSTEES



Denise D. Butler, a native of Coral Gables, Florida, and resident of Eastpoint since 1978, served as vice chair from July 2009 until her election as chair of the District Board of Trustees in July 2011. She is owner of the Butler Agency located in Eastpoint. She holds a Bachelor of Science in Education and Master of Science in Educational Leadership from Florida State University.



Katie Patronis is a company partner and real estate agent with Century 21 Ryan Realty. Ms. Patronis holds a Bachelor of Science in Communication from Florida State University. She currently serves as President of the FSU Panama City Development Board and is an active member of the Junior Service League.



Dan Estes, a native of Bassett, Virginia, was elected as vice chair in July 2011. He is a businessman and owner of D.A. Estes & Associates, Inc., Vetted Services, Inc., and Bay County Investments of Panama City. He is a veteran of the United States Air Force, is vice chair of the Bay County Planning Commission, and is a mentor at New Horizon Learning Center.



Joe K. Tannehill, Jr., is President and CEO of MERRICK Industries, Inc., and owner of ENGEN, LLC. He holds a B.E. in Electrical Engineering from Vanderbilt University, a M.S. in Electrical Engineering from the University of Kentucky, and a M.B.A. from Dartmouth College. He serves on the Board of Directors for the Bay County Chamber of Commerce and the local SunTrust Board.



Leah O. Dunn is the managing partner of Dunn Properties, LLC, and several small businesses. She serves on the Board of the Science and Discovery Center and the Florida Medical Association Alliance. She obtained her degree in English from the University of Oklahoma and a language certification in German from the Goethe-Institute of Freiburg, Germany.



Ralph C. Roberson, of Port St. Joe, is a certified public accountant and has been the owner of Roberson and Associates P.A. since 1997. Mr. Roberson is a member of the Apalachicola Bay Chamber of Commerce, the Gulf County Chamber of Commerce and the Florida Institute of CPAs. He received an A.A. degree from Tallahassee Community College and bachelor's degree from UWF.



Karen L. Durden, a native of Tallahassee, Florida, is an interior designer, and her professional experience includes management and training in the airline industry. She served as board vice chair from 2005 through June 2008, and is a past-president of the Gulf Coast State College Foundation, Inc. and past-chair of Gulf Coast Medical Center's Board of Directors.



Derrick G. Bennett, a native of Panama City, has practiced law in Panama City for over twenty years and serves as General Counsel for the District Board of Trustees. Mr. Bennett holds a B.S. in Finance from UF and a Juris Doctor from Stetson University. He currently serves on the Board of Directors for Panama City Beach Chamber of Commerce.



Shirley J. Jenkins, a native of Port St. Joe, is the first African-American Tax Collector in Gulf County. She was educated in the Gulf County School system and attended Gulf Coast State College and Florida Memorial College in Miami. She is Co-Pastor at the New Life Christian Center Church in Port St. Joe and Tallahassee, Florida.



Dr. Jim Kerley, a Tennessee native, became the fifth president of Gulf Coast State College in June 2007. He holds a B.S. in social sciences/history/secondary education from Tennessee Tech University, a master's degree in teaching history from The Citadel, and a Ph.D. in educational administration and supervision of higher education from FSU.



Jim McKnight, a native of Tampa, Florida and resident of Wewahitchka since 1988, is a health care executive, currently serving as the Assistant Administrator at the Florida State Hospital. Mr. McKnight holds a B.A. degree in Psychology from the University of South Florida and a M.S. degree in Health Services Administration from the University of St. Francis.

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), Professional Development Center (1965; former Maintenance Building; renovated and renamed Wellness Center in 1995; renovated and renamed in 2003), 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), 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 include 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), and the Public Safety Complex/Emergency Operations Center (2010).

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 13,000 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.

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 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.

Founded in 1967, the Foundation has more than \$25 million in assets. Throughout its 42 year history, it has awarded more than \$5 million in scholarships for GCSC students, and has provided more than \$1.5 in support of college programs. In 1991, the Foundation completed its Wall of Honor Endowment Campaign, which continues to award hundreds of scholarships each year. In 1997, the Foundation launched the Honors Plaza Endowment Campaign to provide annual support for the **continuing need for state-of-the-art instructional technology**. The Foundation finalized its Legacy of Trust Endowment Campaign in spring 2007 with over \$9 million.

Scholarships

What is a scholarship? A Foundation Scholarship award is a monetary amount (grant-in-aid) given to a GCSC student who has applied and been selected to receive a scholarship.

Who can apply for a scholarship? Scholarship opportunities are open to all students attending or planning to attend Gulf Coast State College. Applicants must have a cumulative grade point average of 2.0 or higher. All applicants must be accepted to Gulf Coast State College and have obtained a Student ID Number.

What scholarship opportunities are available to me?

There are three types of scholarship opportunities available: 1) General Foundation Scholarships; 2) Endowed Foundation Scholarships; and 3) High School Honors Scholarships.

How do I set up my online student account? The scholarship application process is quick, easy and free! Visit www.gulfcoast.edu/STARS and enter the requested information. This is your permanent account and may be accessed at any time online.

How do I apply for a scholarship? Log on to your student account to view the scholarships you qualify for. Select which scholarships you are interested in and submit your applications.

When do I apply? The application dates are January 1 to March 1 of each year. Any application received after the deadline will be kept on file and deemed as late.

Questions about scholarships? Contact the Gulf Coast State College Foundation at (850) 873-3810 or visit www.gulfcoast.edu.

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

- 2012: Ms. Maria Baugh
- 2011: Sheriff Frank McKeithen
- 2010: Dr. Ingrid Johnson Rachesky

Rising Star Alumnus of the Year

- 2012: Ms. Sarah Kemper
- 2011: Ms. Tamika Williams

- **The GCSC Alumni Legacy Scholarship Fund** was initiated in 2010 to support a deserving student in receiving an excellent education experience at GCSC. The Alumni Association is awarding this scholarship annually, while hosting fundraising events that raise funds to endow the scholarship as quickly as possible. This 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 third recipient in 2012.
- **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. Working with the GCSC Career Center and Workforce Center, the Alumni Association hosts two Career Workshops each year. 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? We define our alumni as anyone with 12 or more hours (credit or non-credit courses) at GCSC. Gulf Coast graduates, current students (part-time and full-time students), former students, certificate holders and students, vocational students, continuing and community education students, encore students, and occasional students with 12 or more hours are welcome and encouraged to join. The GCSC Alumni Association also offers a “Friend” membership for friends who support the Alumni Association’s initiatives, but are not GCSC alumni.

What is the cost to join? Membership fees support Alumni Association events and activities. Annual membership options for an **Alumni Membership** include: Family Membership (\$25); Individual Membership (\$15); Current Student (\$10); and New Graduate (Complimentary One-Year Membership). Annual membership options for the **Friend Membership** include: Family Membership (\$25) and the Individual Membership (\$15).

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 Office of Admissions 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 Office of Admissions and Records. 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 transcripts(s) and take the placement test if applicable. 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 adviser located in the E.A. Gardner Advising Center to register for courses.

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, Associate in Applied Science degree, or certificate programs.

1. Students who graduated with a Standard High School Diploma, an equivalency diploma (GED), a certificate of completion—CPT eligible, or previously demonstrated competency in college credit postsecondary course work.
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. Graduation status must be officially verified within the student's first term of enrollment.

NOTE: Special diplomas and certificates of attendance 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 Student)

Admission to the AA, AS, AAS, or Certificate Programs.

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

1. Submit an application for admission to the Admissions & Records 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. 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.
- 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 minimum scores for College-Level Placement based on the ACT and SAT scores.

<u>Enhanced ACT</u>	<u>SAT I</u>
Reading = 18	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 Office of Admissions and Records. 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.

ADMISSION REQUIREMENTS FOR THE B.A.S. BACHELORS PROGRAM IN TECHNOLOGY MANAGEMENT

The following summarizes the requirements to be admitted into the Technology Management 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 24 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 Graduate

Individuals under the age of 18 without a standard high school diploma, GED, certificate of completion—CPT eligible or home school affidavit will not be able to be a degree seeking student. 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 not required to request transcripts from 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, Associate in Applied 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. Florida students may access an electronic transient student form by going to www.facts.org and select "College Student" link and then "Transient Student Form." Transient students are required to submit an application for admission 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 Admissions 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:** a student, 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.

2. **Independent 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:** the natural or adoptive parent or legal guardian of a dependent child.

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 five years immediately prior to 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.].

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)

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

College Your Way

Between work and family, most of us have extremely busy schedules. Recognizing that flexible scheduling is important, Gulf Coast is introducing an exciting new concept called College Your Way.

We're all familiar with the idea of traditional college classes (on campus, daytime classes). College Your Way encompasses all non-traditional classes in one area so you can choose the classes that are right for you and your schedule.

- E-Learning/Distance Education Hybrid Classes (a combination of online and/or distance education with some in-class, face to face meetings)
- Fridays 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)872-3854. 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 and the Naval Support Activity Panama City. 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 (COOP) 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 Coop 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.

Coop 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).

Coop 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 Coop class must contact and meet with Ms. Kimberly Hoyt to insure registering in the appropriate class.

Ms. Hoyt is in Technology Room 222 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 Office of Admissions and Records. Fees listed below are for the 2011-2012 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
Parking Fee	2.00
ID/Access Fee	1.95
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
Parking Fee	2.00
ID/Access Fee	1.95
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
Parking Fee	2.00
ID/Access Fee	1.95
Total, Per PSAV Hour	\$87.87

PER ADULT EDUCATION SEMESTER:

Tuition	\$30.00
Capital Improvement Fee	0.00
Financial Aid Fee	0.00
Technology Fee	0.00
Total, Per Vocational Prep Hour	30.00
Parking Fee	2.00
ID/Access Fee	1.95
Total, Per Adult Ed and Vocational Prep Hour	\$33.95

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
Parking Fee	2.00
ID/Access Fee	1.95
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
Parking Fee	2.00
ID/Access Fee	1.95
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
Parking Fee	2.00
ID/Access Fee	1.95
Total, Per PSAV Hour	\$339.62

PER ADULT EDUCATION SEMESTER:

Tuition (resident portion)	\$30.00
Tuition (non-resident portion)	90.00
Capital Improvement Fee	0.00
Financial Aid Fee	0.00
Technology Fee	0.00

Total, Per Vocational Prep Hour	120.00
Parking Fee	2.00
ID/Access Fee	1.95
Total, Per Adult Ed and Vocational Prep Semester	\$123.95

Application Fee (non-refundable)	\$20.00
Returning Student Application Fee	\$10.00
B.A.S., B.S.N., A.A., A.S., A.A.S. Graduation fee	\$20.00
Graduation reapplication fee	\$7.00
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 after 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.).
3. Submit all paperwork within **six weeks** of the end of the term in which enrollment is discontinued.

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. Refunds may be approved the Vice President of Student Affairs after the six week period provided the drop is due to an administrative error by the college.

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 audit 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.ed.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.ed.gov. Participants must show some financial need and meet the priority deadline of May 15, to be considered for the work-study program. 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 and must complete the Free Application for Federal Student Aid (FAFSA). 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 now 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. Bright Futures recipients should consult the GCSC website at www.gulfcoast.edu,

click on **Financial Assistance** and **Financial Aid and Bright Futures**. Current information on Bright Futures scholarship requirements, student eligibility, and renewal requirements is available at www.floridastudentfinancialaid.org.

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 as early as possible. They will be notified if they are awarded the grant.

Gulf Coast State College Foundation Scholarships:

GCSC Foundation Scholarship opportunities are open to all students attending or planning to attend Gulf Coast State College. The deadline for applying is 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 <https://stars.gulfcoast.edu/stars>. 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 colleges 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 Stafford Loans: Need-based funds available to eligible students to borrow for educational expenses. Students may use the funds now and delay repayment until they graduate or attend less than half-time. Interested students must complete the Free Application

for Federal Student Aid (FAFSA) to determine need **and** complete entrance counseling, the promissory note, and loan request form.

To qualify, applicants must have a 2.0 overall GPA and a 67% completion rate for any 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 administered 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 in a 16 week semester. In a semester that lasts 10 weeks or less, loans are due within 30 days. 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.ed.gov as early as possible after completion of 2011 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 need.

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

July 1 for fall 2012

November 1 for spring 2013

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 Admissions 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 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: Student 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:

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

- *(See Academic Policies for more information regarding GPA calculation)*
- Student 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, 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.
- Special mitigating circumstances of a unique kind as determined by the director or designee.

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 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.

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 obtain all necessary VA application forms before enrolling. To learn more about veteran benefits, go to www.gbill.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, with the training time shortened and tuition reduced proportionally with the VA and the veteran or eligible person so notified. 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 Veterans' Office 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.

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 adviser located in the E.A. Gardner Advising Center prior to registering for first semester classes.

Every first time student at Gulf Coast State College will meet with a Master Adviser who will assist the student in the transition to college and aid in scheduling the student's first semester courses. Master Advisers will assign a Primary Adviser 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 Adviser to map out the student's educational plan. The student's assigned Primary Adviser 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 E.A. Gardner Advising Center is located in the Enrollment Services Building.

Students who have declared **transfer track or academic major** may register for classes without consulting an academic adviser provided they have;

- Completed three credit hours of college-level courses at GCSC.
- Are not on academic probation or suspension.
- Are not pursuing the GEN-AA major.

First-time students are not allowed to register without consulting an academic adviser.

Placement Testing

All 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. Students may use ACT or SAT scores for placement provided the scores are less

than two years old and meet state-mandated minimum score levels. If ACT or SAT scores are lower than the state-mandated minimum scores, the student must take the Computerized 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. 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), effective fall 2012 a degree-seeking student has a maximum of two attempts on the CPT once the student is admitted to the college. Attempts are considered by subtest (reading, writing, math) and do not have to be taken at the same time.

Computerized 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 college's Bookstore or Business Office and take the receipt to the testing official in the CPT 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 **Testing** option. Computerized placement tests are also available at the Gulf/Franklin Campus, the North Bay Campus, and the Tyndall Air Force Base Campus.

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. The logon to the system can be found

online at www.gulfcoast.edu, then selecting the Student Resources link. The Pay4Print link is listed under the Services and Tools header. Your logon will be the same logon ID as the student email, using only the initials and randomly generated number. (You may also access the information by going to www.gulfcoast.edu and clicking on Student Resources and then on Pay4Print.) Students will be required to add money to their print accounts before they are able to print. In labs where students are paying a lab fee, students will not be required to pay for print in those labs during class time.

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 Academic Counseling and Tracking for Students (FACTS)

Florida Academic Counseling and Tracking for Students (FACTS) is a network that provides access to many resources of Florida's higher education institutions. FACTS 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 FACTS website at www.facts.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.

Web Registration

Gulf Coast State College students have the option of registering online for classes. For available registration dates, please review the *College Calendar* on the college's homepage (www.gulfcoast.edu). If a student has been cleared for registration by his/her adviser, web registration is available. All prerequisite and testing requirements must be met prior to web registration. In order to sign on to web registration, a student ID number and a PIN are required.

Websites

Websites students may find useful include:

- www.studentclearinghouse.org, download degree and/or enrollment verifications.
- www.facts.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.
- <http://www.leg.state.fl.us/Statutes/index.cfm>, current state statutes.

Career Center/Job Placement

Whether you're looking for the latest information on GCSC or general scholarships, 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, including Please Understand Me, FACTS Choices, and many more, 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.
- Scholarship help to include up to date scholarships, search tools, and application assistance.
- Information on colleges across the state of Florida and the United States
- Student Assistant position postings (on campus jobs for full time students only). Students are encouraged to inquire a week prior to classes starting each semester.

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://www.gulfcoast.edu/students/career_development/default.htm or
<http://www.gulfcoast.edu/jobplacement/default.htm>.

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.

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 visual impairments, hearing impairments, or specific learning disabilities. Documentation must be provided to substantiate that 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.

Returning Student Program

The Returning Student Program is funded to serve displaced homemakers over the age of 35 who were once dependent on the income of another and no longer have such income. This can be due to divorce, death, separation, or spousal disability. Academic support, personal and career development, and book and tuition scholarships are available for eligible clients per funding availability. The program is located in the Student Union East, Room 49. For more information, please call 872-3835. The Returning Student Program is sponsored by Gulf Coast State College and the State of Florida and is administered by the Agency for Workforce Innovation.

Student E-Mail

Student Email is a GCSC provided email account for credit students and is issued upon admission to the college. You are expected to activate your account to check for important information. The student email account will be of the format AAANNNN@my.gulfcoast.edu where AAA represents the student's initials and NNNN represents a unique electronically-assigned number. 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://cms.gulfcoast.edu/emailinstructions.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.

Personal Identification Number (PIN)

Your GCSC Personal Identification Number (PIN) is used to access your student information and for Web registration through LIGHTHOUSE. To access LIGHTHOUSE, you must have applied and enrolled in a credit course during the last two years and know your GCSC PIN. New students who have applied on the Web have established their unique 6-digit PIN.

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 E.A. Gardner Advising Center located 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 through various means, including tutorial services for students taking developmental coursework in reading, English, and mathematics. Further information about tutorial support may be obtained by contacting the instructor of the developmental course in which a student is registered.

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.

Developmental Education

The Developmental Studies Program is designed to help students achieve a level of academic competence that will enable them to work successfully in college-level courses. Developmental education includes sequential tracks in English, reading, and mathematics. Placement is assigned through the college placement test. Additionally, any student enrolled in a developmental course is registered, at no cost, for tutorial services. Developmental Studies advisers are available to assist students in the program in all matters related to their academic lives. For further information on support services, see **Student Services**.

Developmental courses are college preparatory reading (REA007 and REA0017), English (ENC0015 and ENC0025), and mathematics (MAT0018 and MAT0028).

Developmental Outcomes

Students will take developmental courses in English, reading, or mathematics as determined by the score made on the college placement test. After completing the developmental program, students will be able to:

English.

- Demonstrate competence in prewriting, writing, and editing of a variety of written assignments.
- Manage basic research writing methods and skills.

Reading.

- Demonstrate effective reading comprehension skills.

Mathematics.

- Employ college-level math concepts, methods, and skills.

Critical Thinking.

- Demonstrate critical thinking, study, communication, and time management skills necessary for success at college-level academic coursework.

Students are allowed to take college-level courses while taking developmental coursework; however, when a student has completed 12 semester hours of college-level coursework the student must have successfully completed all developmental coursework or be concurrently enrolled in their developmental courses.

Developmental Studies Policies

Requirement in College-Preparatory Reading: If students place into college preparatory reading courses, they must:

- enroll during their first semester in the course continue with a reading course until they have completed the reading requirement or tested out of developmental reading.

Requirement in One College Preparatory Course (English or Math) Other Than Reading: If students place into college-level reading but college preparatory English or math, they must enroll in at least one of the required college-preparatory courses during their first term and must continue in that discipline each term thereafter until they have completed the requirements.

Requirement in Two College-Preparatory Areas: If students place into two college preparatory areas, including reading; they must address the reading deficiency. Each semester students who place into two college-preparatory areas, excluding reading, must enroll in at least one college-preparatory class.

Requirement in Three College-Preparatory Areas: If students place into three college preparatory courses, they must enroll in a reading course and at least one other college preparatory course.

Sequence of Courses: Once students enroll in a college preparatory course in reading, English, or math, they must continue to enroll in that discipline until they have satisfied their college preparatory requirements for that area.

For more information regarding developmental program requirements and support for developmental students, please contact Dr. Cheryl Flax-Hyman, Associate Vice President of Academic Affairs, (850) 747-3215.

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, as well as academic grievances, 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 or the Office of Student 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-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.

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 affords 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)(I) 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.
 - c. 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 and height of athletic team members
- Dates of attendance
- Degrees, awards, and previous schools attended
- Photograph

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.

Notification of Social Security Number Collection and Usage

EMPLOYEES

In compliance with FL Statute 119.071(5), 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 Social Security Number for use in performance of the College's duties and responsibilities. To protect your identity GCSC will secure your Social Security Number from unauthorized access. GCSC will never release your Social Security Number to unauthorized parties, and each student/employee at GCSC will be issued a unique student/employee identification number. Your unique ID number is used for all associated employment and educational purposes at GCSC including registration, access of your online records, etc. You are not required

to disclose your Social Security Number in accordance with US Public Law 90-579. However, the Social Security Number is required of all students seeking federal financial aid and must be provided in order to obtain the IRS deduction for college attendance.

Human Resources Department

Your Social Security Number (SSN) is used for legitimate business purposes in compliance with:

- Completing and processing the Federal I-9 (Department of Homeland Security)
- Completing and processing Federal W4, W2, 1099 (Internal Revenue Service)
- Completing and processing Federal Social Security taxes (FICA)
- Processing and Distributing Federal W2 (Internal Revenue Service)
- Completing and processing quarterly Unemployment Reports (Florida Department of Revenue)
- Completing and processing Florida Retirement Contribution reports (Florida Department of Revenue)
- Workers Comp Claims (FCCRM and Department of Labor)
- Completing and processing Direct Deposit Files (Bank of America, ACH)
- Completing and processing 401(a), 403(b) and 457 contribution reports
- Completing and processing group health, life and dental coverage enrollment
- Completing and processing various supplemental insurance deduction reports

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

STUDENTS

Admissions

Federal legislation relating to the Hope Tax Credit requires that all postsecondary institutions report the Social Security Number of all postsecondary students 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 to the College for this purpose, but the IRS is then authorized to fine the student.

In addition to the federal reporting requirements, the public school system in Florida uses Social Security Number as a student identifier (section 1008.386, F.S.). In a seamless K-20 system, it is beneficial for postsecondary institutions to have access to the same information for purposes of tracking and assisting students in the smooth transition from one education level to the next.

Social Security Numbers are protected by federal regulations and are never released to unauthorized parties.

Financial Aid

A student's Social Security Number is required for the following financial aid purposes:

The United States Department of Education's (USDOE) Free Application for Federal Student Aid (FAFSA) requires all applicants to report their SSN to be used for all federal financial aid programs as a student identifier for processing and reporting. In addition to its use by USDOE as a student identifier, the SSN is required in order for the Department of Homeland Security to investigate citizenship status, for the Federal Work Study Program, and is required on all loan applications for use by the lender/servicer/guarantor.

GCSC collects a student's SSN on certain institutional scholarship applications for student files and federal and state audit/reporting purposes.

If you are recipient of a State of Florida grant or scholarship such as the Florida Student Assistance Grant, Florida Work Experience or Bright Futures the State of Florida Department of Education will require the use of the Social Security Number on their grant/scholarship disbursement website and for reporting purposes.

Veterans Affairs

The Social Security Number is required for enrollment verification and reporting for all Veterans Administration beneficiaries. A Veteran student is required to report his/her Social Security Number in order to receive the appropriate benefits and for tracking purposes. Required by 38 USC 3471.

Library

The Gulf Coast ID number will be used in the Library's patron database (LINCC) for online login authentication, patron verification, and the elimination of duplicate records. Social Security Numbers are not collected or used in the library.

Outreach Programs

The College Reach-Out Programs are youth outreach (intervention) projects funded by discretionary grants from the US or Florida Departments of Education. In order to verify a participant's project eligibility, Social Security Number are required and also later used when submitting information for the annual Performance Reports due to the US or Florida Department of Education.

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. Also, it is used for entering placement information into either the OSMIS or for Employ Florida Marketplace statewide data collection and reporting system. Because these are performance based contract programs, AWI requires that all participants and their program related activities be recorded in the Florida state system.

Contractors

Gulf Coast State College collects contractor Social Security Number information in order to file the required information returns with the Internal Revenue Service, as required and authorized by federal law. Gulf Coast State College will never release your Social Security Number to unauthorized parties.

Student ID Numbers

All GCSC students are issued a unique Student Identification (ID) number upon admission to the College. Your Student ID number can be found when you log into LIGHTHOUSE for your first access to your online records. All college transactions will require the student to provide their ID number.

Degree Compliance

The Institutional Degree Audit 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 audit by visiting www.gulfcoast.edu and click on LIGHTHOUSE, or by requesting a copy of their degree audit from an adviser located in the E.A. Gardner Advising Center.

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. Effective with the 2009 fall semester, all vehicles on the GCSC Panama City campus, the North Bay Center, and the Gulf/Franklin Center will be 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 in the college's E. A. Gardner Advising Center located near the Admissions & Enrollment Services Office. 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 in the Student Activities area located adjacent to the Commodore Café in 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	2008	2009	2010
Homicide	0	0	0
Sex Offenses, Forcible	0	0	0
Robbery	0	0	0
Burglary/Breaking Entering	0	0	0
Larceny/Theft	0	0	0
Motor Vehicle Theft	0	0	0
Illegal Weapons	0	0	1
Drug Law Violations	0	0	2
Liquor Law Violations	0	0	0
Drug/Alcohol Fatalities	0	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 National Public Radio 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 Admissions and Records 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.

President's Honor List

Awarded fall and spring terms to students enrolled for 12 or more college credit hours who earn a grade point average of 3.90-4.00.

Dean's List

Awarded fall and spring terms to students enrolled for 12 or more college credit hours who earn a grade point average of 3.70-3.89.

Honors List

Awarded fall and spring terms to students enrolled for 12 or more college credit hours who earn a grade point average of 3.00-3.69.

Awarded fall and spring terms to students enrolled in 6-11 college credit hours who earn a grade point average of 3.00 and above.

Graduation Honors

Hours are cumulative and include transfer credit hours.

Summa Cum Laude	Grade Point Average of 3.90-4.00
Magna Cum Laude	Grade Point Average of 3.7-3.89
Cum Laude	Grade Point Average of 3.50-3.69

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
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.
P	May be used in certain PSAV courses to indicate whether or not exit level competencies have been met
R	
W	Withdrawal - See Withdrawals
I	Incomplete - An "I" becomes an "F" within 30 calendar days from end of the term
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, 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 executive vice president. All grade changes must be made within 30 days of the close of each term. Exceptions for extenuating circumstances must be approved by the executive vice president.

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” 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 Admissions and Records Office. Students can also change their address online via LIGHTHOUSE and the change is effective immediately. Change of major should be initiated in the Admissions and Records 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 applied 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". Administrative withdrawals initiated after the published withdrawal deadline will be recorded as either "W" or "F" depending on the student's progress in the class and the instructor's grading policies. The withdrawal deadline for an off-term, distance education or condensed semester is midterm for the course or the date of the second examination, whichever occurs first.

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 adviser.

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. Request a graduation degree audit. Students pursuing an A.S., A.A.S., or a vocational certificate must obtain a program evaluation from their adviser.
 5. Submit paid graduation application to Vice President of Student Affairs office by published deadline (see college calendar for 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 adviser. Students with a "B" average and written permission of their advisers 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 Associate in Applied Science, Postsecondary Vocational, and Certificate programs.

- Student submits appropriate documentation to program manager.
- If approved, program manager sends completed Course Substitution Form to the Office of Admissions and Records.

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 and all requests must be made in writing by the student. To request an official transcript the student must complete the college Transcript Request Form located in the Office of Admissions and Records or go to www.gulfcoast.edu and click on Student Resources, click on Transcripts, click on Official Transcript Request Form-Outgoing and submit the form to the Admissions Office.

All written requests must include:

- Student's full name (maiden/married)
- Student ID number or Social Security Number
- Approximate dates of attendance
- Name and address of receiving institution
- Contact telephone number/e-mail address

- Picture identification (i.e., driver's license)
- Student's signature

Requests should be mailed to the Office of Admissions and Records, Gulf Coast State College, 5230 West U.S. Hwy. 98, Panama City, FL 32401 or can be faxed to (850) 913-3308.

Transcripts cannot be e-mailed or faxed by the college to the student, individuals, or other institutions. Transcripts can be sent electronically to other Florida schools. All requests must be made by the student. Please allow 2-5 working days for processing. Gulf Coast State College reserves the right to place a restriction 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 Office of Admissions and Records 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 Office of Admissions and Records 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 Office of Admissions and Records 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 Office of Admissions and Records. Information on credit awarded for subject matters exams is available from the Transcript Coordinator in the Office of Admissions and Records 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 Office of Admissions and Records 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 Admissions and Records.

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, and admission preference will be given to residents of Bay, Gulf, and Franklin counties.

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.

The Bachelor of Applied Science Program

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

Program Goal: This program is designed for students who have completed an AS or AAS 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.

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

* Minimum grade of "C" required.

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

General Education Requirements

*The General Education Requirements are outlined on page 45. 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 adviser for assistance.

GENERAL EDUCATION COURSES	Cr. Hrs.
+*ENC1101, English I	3
+*ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
POS2041, American National Government.	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
Physical Science.....	3
+ Biology.....	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3
+*Approved mathematics (MAC/STA)	6

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
+ 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	
Technology	3
+ ETI3418, Computer Numerical Control Systems	3
+ ETI3621, Techniques in Lean Manufacturing	3
+ ETI4480, Applied Robotics.....	3
+ ETI4704, Occupational Safety.....	3

SPECIALIZATION IN INFORMATION TECHNOLOGY

(15 Credits)

+ ISM3220, Network Technologies for Information	
Professionals	3
+ ISM4212, Database Design and Administration	3
+ ISM4302, Emerging Technologies	3

+ MAN3503, Managerial Risk Analysis and	
Decision Making.....	3

Select one of the following:

+ CTS4817, Web Server Administration	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.

The Bachelor of Science Program

Bachelor of Science in Nursing (RNBA-BSN)

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.

GENERAL EDUCATION COURSES	Cr. Hrs.
* NUR3069, Advanced Health Assessment	3
* NUR3119, Nursing Concepts and Theories.....	3
* NUR3128, Pathophysiology.....	3
+* Humanities II	3
+* STA2023, Statistics	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
+* Approved mathematics (MAC1105 or MGF1106)	3
* NUR4655, Multicultural Factors in Health.....	3
* NUR4827C, Leadership and Management	4
+* NUR4925, Symposium II.....	1
* CHM1032, General, Organic, Biochemistry.....	3
* POS2041, American National Government	3
+* ENC1102, English II.....	3
* NUR4837, Health Care Policy and Economics	3
* NUR4847, Clinical Decision Making.....	3
* NUR4945C, Nursing Capstone Practicum	2
+* Humanities III	3
* EUH1000 or EUH1001, Western Civilization I or II	3

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 consecutive years of the same foreign language in high school or eight credits in college, the student must complete eight credits 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

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 adviser or access the Florida Academic and Counseling Tracking System (FACTS) at www.facts.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 adviser for further assistance.

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.

Associate in Arts Transfer General Education Outcomes

The Associate in Arts transfer core outcomes will be assessed within the 36 credits required of all A.A. degrees from those students who have completed a minimum of 40 credits in their degree.

Communication. Students will be able to:

- Compose an effective essay consisting of 500+ words.
- Demonstrate the ability to access, interpret, and evaluate information (**Information Literacy**).

Global Socio-Cultural Responsibility. Students will be able to:

- Accurately synthesize and evaluate complex information regarding an enduring question of human existence.

Critical Thinking. Students will be able to:

- Describe and analyze relationships between individuals or groups of people and three different types of institutions (governmental or other political entities, religious, social, educational, cultural, etc.).
- Accurately select formulas for, interpret, write (in words and symbols), and solve mathematical equations.

Scientific and Quantitative Reasoning. Students will be able to:

- Explain a scientific or mathematical idea (law/theory/hypothesis/model/classification scale) by providing accurate facts, justifying how these facts support the idea, and providing one application of this idea in science or math.
- Analyze biological processes such as cellular respiration, protein synthesis, DNA replication or cellular reproduction.

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

* Minimum grade of "C" required.

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. Satisfy the College Level Academic Skills Program requirement in English, reading, and mathematics by either:
 - a. earning a 2.5 GPA in ENC1101 and ENC1102 or 2.5 GPA in a combination of either ENC1101 or ENC1102 and a Humanities III (literature course) and/or a cumulative 2.5 GPA in two college-level mathematics courses (MAC, STA or MGF)
 - b. earning CLEP, AP, AICE, or IB credit in ENC1101 or in college-level mathematics
 - c. score a minimum score in the appropriate subject areas on the ACT or SAT
7. Submit an application for graduation as outlined in the Graduation Procedures section of this catalog.
8. Fulfill all financial obligations to the college.

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. (All students expecting to enter a state university must meet the university foreign language requirement. Students may satisfy this requirement by successfully completing two years of the same high school foreign language OR by successfully completing eight hours of foreign language at the community college.)

General Education Requirements

All students who receive the A.A. degree will meet the following course requirements.

GENERAL EDUCATION COURSES	Cr. Hrs.
+*ENC1101, English I	3
+*ENC1102, English Composition II	3
EUH1000 or EUH1001, Western Civilization I or II	3
POS2041, American National Government	3
PSY2012 or SYG2000, General Psychology or Principles of Sociology	3

Physical Science (Choose One)	3
AST1002, Descriptive Astronomy	
CHM1032, General, Organic, Biochemistry	
+ CHM1040, Fundamentals of Chemistry	
+ CHM1045, General Chemistry	
EVR1001, Introduction to Environmental Science	
GLY1010, Physical Geology	
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	
ESC2000, Earth and Space Science Survey or higher level physical science courses as approved by adviser	

Biological Sciences (Choose One)	3
+ BOT2800, Plants and Society	
+ BSC1005, General Biological Science	
+ BSC1020, Human Biology	
+ BSC2010, Biology for Science Majors I	
+ BSC2085, Human Anatomy and Physiology or higher level biological science courses as approved by adviser	
+ BSC2311, Introduction to Marine Biology	

Humanities - All students are required to successfully complete a minimum of three semester hours from Area I, Area II, and Area III. Students must complete ENC 1101 with a minimum grade of "C" before taking Area II and must complete ENC 1102 with a minimum grade of "C" before taking Area III. Some programs may require additional hours in the humanities.

Area I (Choose One)	3
+ ARH2000, Understanding Visual Arts	
+ MUL2010, Understanding Music	
+ THE2000, Understanding Theatre	
+ ARH2050, Art History I	
+ ARH2051, Art History II	
+ MUL2110, Survey of Music Literature	
+ THE2071, Survey of Film	

Area II (Choose One)	3
(Students must complete ENC 1101 with a minimum grade of "C" before taking Area II)	
*+ PHH2060, Introduction to Classical Philosophy	

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

* Minimum grade of "C" required.

- *+ PHI2002, Introduction to Modern and Contemporary Philosophy
- *+ PHI2010, Introduction to Modern 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

Area III (Choose One).....3

(Students must complete ENC 1102 with a minimum grade of "C" before taking Area III)

- *+ AML2010, Amer. Lit. Through the Civil War
- *+ AML2020, Amer. Lit: Reconstruction to Present
- *+ AML2600, African-American Literature
- *+ ENG2111, Literature and Film
- *+ ENL2012, Eng. Lit. Through the 18th Century
- *+ ENL2022, Eng. Lit: Romantics to Present
- *+ LIT2040, World Drama
- *+ LIT2090, Contemporary Literature
- *+ LIT2110, World Literature: Ancient Through Renaissance
- *+ LIT2120, World Lit: Enlightenment to Present
- *+ LIT2380, Women in Literature

***Mathematics.....6**

(At the level of STA, MAC, or MGF as approved by adviser and/or defined by major.)

****Foreign Language and/or +Approved Electives24**

(Approved by adviser and/or defined by major.)

All courses offered for transfer credit, except those marked with the # sign, are suitable to be used as electives. In those cases in which the course is marked with a #, it would be appropriate to consult the program adviser.

TOTAL.....60

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.

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

* Minimum grade of "C" required.

**TRANSFER TRACK/ACCOUNTING
(ACCTG-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+*ENC1101, English I.....	3
+*ENC1102, English II.....	3
+*Approved mathematics (MAC/STA)	3
+*MAC2233, Calculus for Business	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government.....	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
Physical Science.....	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

CGS1570, Microcomputer Applications	3
*ACG2001, Financial Accounting I.....	3
+*ACG2011, Financial Accounting II.....	3
+ ECO2013, Economics, Macro.....	3
+ ECO2023, Economics, Micro.....	3
+ ACG2071, Managerial Accounting.....	3

ELECTIVES.....6

RECOMMENDED ELECTIVES

GEB1011, Introduction to Business.....	3
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TOTAL DEGREE HOURS60

**TRANSFER TRACK/AGRICULTURAL SCIENCE
(FARM-AA) (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 adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+*ENC1101, English I.....	3
+*ENC1102, English II.....	3
EUH1000 or 1001, Western Civilization.....	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government.....	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

+ BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010L, Biology for Science Maj. I Lab	1
+ BSC2011, Biology for Science Majors II	3
BSC2011L, Biology for Science Maj. II Lab	1
+* MAC1140, Pre-Calculus Algebra	3
+* STA2023, Statistics.....	3
(Meets math requirement for A.A.)	
+ CH M1045, General Chemistry	3
(Meets physical science requirement for the A.A.)	
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
+ ECO2013, Economics, Macro or	
ECO2023, Economics, Micro.....	3
CGS1570, Microcomputer Applications.....	3

ELECTIVES..... 1

TOTAL DEGREE HOURS 60

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

* Minimum grade of "C" required.

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000, Western Civilization I.....	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3
GLY1010, Physical Geology.....	3
(Meets physical science requirement for A.A.)	

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

ANT2000, Anthropology.....	3
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ELECTIVES21

RECOMMENDED ELECTIVES

GEO1000, Introduction to Geography.....	3
EUH1001, Western Civilization II.....	3

TOTAL DEGREE HOURS60

TRANSFER TRACK/ARCHITECTURE (ARCH-AA) (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 at Florida A & M University.

GENERAL EDUCATION COURSES	Cr. Hrs.
+*ENC1101, English Composition I.....	3
+*ENC1102, English Composition II.....	3
EUH 1000 or 1001, Western Civilization.....	3
PSY 2012 or SYG2000 Psychology/Sociology	3
POS2041, American National Government	3
+ ARH2000, Understanding Visual Art or	
+ARH2050, Art History I	3
(Meets Humanities I requirement)	
+ PHY2053, College Physics & Lab	4

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

+*MAC2311, Calculus I.....	4
ART1300C, Drawing I.....	3
+ ART1201C, Design I.....	3
+ ART1203C, Design II.....	3
+ TAR2154, Commercial Arch Design & Lab	4
+ ETD1320, AutoCAD.....	3
+ ETG2502, Statics	3
BCN1230, Materials and Methods.....	3

TOTAL DEGREE HOURS 60

NOTE: Students must enroll in summer term at FAMU prior to their junior year.

TRANSFER TRACK/ART (ART-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+*ENC1101, English I.....	3
+*ENC1102, English II.....	3
+*Approved mathematics (MAC, MGF, STA)	6
EUH1000 or 1001, Western Civilization	3
PSY 2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3
+ ARH2000, Understanding Visual Art.....	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
Physical Science.....	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE 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 II.....	3
ART2955, Portfolio and Resume Development.....	3

ELECTIVES

Approved visual arts or photography electives.....3

TOTAL DEGREE HOURS60

TRANSFER TRACK/BIOLOGY (BIO-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+*ENC1101, English I.....	3
+*ENC1102, English II.....	3
EUH1000 or 1001, Western Civilization.....	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

+ BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
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
+* MAC2312, Calculus II	4
(Meets math requirements for A.A.)	
+ CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
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

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

* Minimum grade of "C" required.

**TRANSFER TRACK/BUILDING CONSTRUCTION
(BLCON-AA) (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 adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+*ENC1101, English I.....	3
+*ENC1102, English II.....	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

+*STA2023, Statistics.....	3
(Meets math requirement for A.A.)	
+*MAC2311, Calculus I (4) or	
+*MAC2233, Business Calculus	3
GLY1010, Geology	3
(Meets physical science requirement for A.A.)	
ACG2001, Financial Accounting I	3
+ ECO2013, Economics, Macro	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..... 7

TOTAL DEGREE HOURS 60

+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* STA2023, Statistics	3
+* MAC2233, Calculus for Business	3
EUH 1000 or 1001, Western Civilization	3
PSY 2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government.....	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
Physical Science.....	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

CGS1570, Microcomputer Applications.	3
* ACG2001, Financial Accounting I	3
+* ACG2011, Financial Accounting II	3
+* ECO2013, Economics, Macro	3
+* ECO2023, Economics, Micro	3
+* ACG2071, Managerial Accounting	3

ELECTIVES..... 6

RECOMMENDED ELECTIVES

GEB1011, Introduction to Business.....	3
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TOTAL DEGREE HOURS 60

**TRANSFER TRACK/BUSINESS TEACHER EDUCATION
(BSTHR-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC 1101, English I	3
+* ENC1102, English II.....	3
+* Approved mathematics (MAC, MGF, STA).....	6
EUH 1000 or 1001, Western Civilization	3
PSY 2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science.....	3
+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

* ACG2001, Financial Accounting I.....	3
+* ACG2011, Financial Accounting II.....	3
+ ECO2013, Economics, Macro	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 3

Suggested Electives: Choose one or see an adviser.

CGS1570, Microcomputer Applications	3
GEB1011, Introduction to Business.....	3

TOTAL DEGREE HOURS 60

TRANSFER TRACK/CHEMISTRY (CHEM-AA) (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 infrared 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government.....	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
CHM1045L, General Chemistry Lab.....	1
+* CHM1046, Chemistry with Qual. Analysis	3
CHM1046L, Chemistry with Qual. Anal. Lab.....	2
+* MAC2311, Calculus I.....	4
+* MAC2312, Calculus II.....	4
(Meets math requirement for A.A.)	

Students must also complete one of the following two-semester sequences in science:

+*CHM2210, Organic Chemistry I	3
CHM2210L, Organic Chemistry I Lab	2
+*CHM2211, Organic Chemistry II	4
CHM2211L, Organic Chemistry II Lab	1

ELECTIVES¹..... 6
OR

+*PHY2048, University Physics I.....	4
PHY2048L, University Physics I Lab.....	1
PHY2049, University Physics II.....	4
PHY2049L, University Physics II Lab.....	1

ELECTIVES²..... 6
OR

+*PHY2053, College Physics I	3
PHY2053L, College Physics I Lab	1
PHY2054, College Physics II	3
PHY2054L, College Physics II Lab	1

ELECTIVES²..... 8

TOTAL DEGREE HOURS 60

¹University Physics is required for advanced degrees in chemistry.

²GCSC strongly recommends that students pursuing a chemistry transfer track complete the chemistry sequence through CHM2211 before transferring.

**TRANSFER TRACK/CHIROPRACTIC MEDICINE
(CHIR-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH 1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

+* MAC1140, Pre-Calculus Algebra	3
+* MAC1114, Trigonometry	3
(Meets math requirement for A.A.)	
+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
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 with lab	8
(Meets biology requirement for the A.A.)	
+* PHY2053, Physics I	3
PHY2053L, Physics I Lab	1
+* PHY2054, Physics II	3
PHY2054L, Physics II Lab	1

TOTAL DEGREE HOURS 60

**TRANSFER TRACK/COMMUNICATION
Advertising/Public Relations Option
(ADVER-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

+ SPC1608, Introduction to Public Speaking	3
AMH2010, U.S. History I	3
AMH2020, U.S. History II	3
+ ECO2013, Economics, Macro	
or +ECO2023, Economics, Micro	3

ELECTIVES 12

RECOMMENDED ELECTIVES

+ MMC2100, Writing for Mass Comm	3
RTV1000, Introduction to Broadcasting or	
MMC1000, Survey of Mass Communication	3
CGS1570, Microcomputer Applications	3
PGY2801C, Digital Photography	3

TOTAL DEGREE HOURS 60

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

* Minimum grade of "C" required.

TRANSFER TRACK/COMMUNICATION
Journalism Option (JOURN-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

+ SPC1608, Introduction to Public Speaking	3
AMH2010, U.S. History I	3
AMH2020, U.S. History II	3

ELECTIVES..... 15

RECOMMENDED ELECTIVES

AMH2010, 2020 U.S. History, or	
+ ECO2013, Economics	3
MMC1000, Survey of Mass Communication.	3
+ MMC2100, Writing fo r Mass Comm.....	3
JOU2400, Newspaper Production	6

(Suggested electives are PGY2801C Digital Photography I and PGY2802C Digital Photography II.)

TOTAL DEGREE HOURS 60

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH 1000 or 1001, Western Civilization.....	3
+* Approved mathematics (MAC, MGF, STA).....	6
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science.....	3
+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

+ SPC1608, Introduction to Public Speaking.....	3
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ELECTIVES..... 21

RECOMMENDED ELECTIVES

DIG2000, Intro to Digital Media OR	
MMC1000, Survey of Mass Communication.....	3
DIG2251, Digital Audio I	3
+ DIG2252, Digital Audio II	3
CGS2069, Internet marketing	3
DIG2257, Production Sound Recording	3
+ DIG2200, Basic Video.....	3
+ MMC2100, Writing for Ma ss Communication	3

(Recommended elective RTV2300L, Broadcast News Lab. 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.)

TOTAL DEGREE HOURS 60

**TRANSFER TRACK/COMMUNICATION
Speech Option (SPCH-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+ SPC1608, Introduction to Public Speaking	3
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ELECTIVES 21

RECOMMENDED ELECTIVES

AMH2010 or AMH2020, U.S. History	
MMC1000, Survey of Mass Communication	3

TOTAL DEGREE HOURS 60

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3
+* STA2023, Statistics	3
+* MAC2233, Calculus for Business	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

CGS1570, Microcomputer Applications	3
* ACG2001, Financial Accounting I	3
+* ACG2011, Financial Accounting II	3
+ ECO2013, Economics, Macro	3
+ ECO2023, Economics, Micro	3
+ ACG2071, Managerial Accounting	3

PROGRAMMING ELECTIVES (6 credits)

+ COP2224, C++ Programming I	3
+ COP2250, Java Programming I	3
+ COP2228, C++ Programming II	3
+ COP2251, Java Programming II	3

TOTAL DEGREE HOURS 60

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

* Minimum grade of "C" required.

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* MAC2311, Calculus I	4
(Meets mathematics requirement for AA)	
+* MAC2312, Calculus II	4
+* MAC2313, Calculus III	4
+ MAD2104, Discrete Math	3
+ MAP2302, Differential Equations	3
+ PHY2048, University Physics I	4
(Meets physical science requirement for AA)	
+ 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

ELECTIVE

LIS2004, Introduction to Internet Research	1
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TOTAL DEGREE HOURS60

**TRANSFER TRACK/COMPUTER SCIENCE
(CMPSC-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY 2012 or SYG2000, Psychology/Sociology	3
POS 2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3
+ BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
+ BSC 2011, Biology for Science Majors II and	3
+* MAC1114, Plane Trigonometry	3
+* MAC1140, Precalculus Algebra	3

COMMON COURSE PREREQUISITES

+* MAC2311, Calculus w/Analytical Geometry I	4
+* MAC2312, Calculus w/Analytical Geometry II	4
(Meets math requirement for A.A.)	
+ PHY2048, University Physics I	4
(Meets physical science requirement for AA)	
PHY2048L, University Physics I Lab	1
+ PHY2049, University Physics II	4
PHY2049L, University Physics II Lab	1
+ COP1000, Intro to Programming Logic	3
+ COP2228 or COP2250, Intro to C++ or Java Programming I	3

TOTAL DEGREE HOURS 60

TRANSFER TRACK/CRIMINOLOGY/CRIMINAL JUSTICE (LAW-AA) (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. 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 or defense attorneys, judges, court administrators, probation/parole officers, juvenile court case workers, criminal analysts, and criminal research scientists.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	3
+* STA2023, Statistics	3
+ EUH 1000 or 1001, Western Civilization	3
+ PSY2012 or SYG2000, Psychology/Sociology	3
+ POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* Humanities II	3
(Recommend PHI2600, Ethics)	
+* Humanities III	3

ELECTIVES..... 24**RECOMMENDED ELECTIVES**

CCJ1010, Introduction to Criminology.....	3
CCJ1020, Introduction to Criminal Justice	3
CCJ1191, Human Behavior in Criminal Justice.....	3
CJL2100, Criminal Law	3
CJC2002, Probation & Parole	3
CCJ 2500, Juvenile Justice.....	3
PLA2308, Criminal Procedure.....	3
CJL2130, Evidence	3
PLA2190, Legal Reasoning.....	3
+ PLA1104, Legal Writing and Research I	3
PLA1203, Civil Practice and Procedure I	3
+ MAT1033, Intermediate Algebra.....	3
PGY2801C, Photography I	3

+ SYG2000, Sociology or PSY 2012, Psychology.....	3
+ BSC2085, Anatomy and Physiology or	
+ BSC1005, Biology	3
CGS1570, Microcomputer Applications	3
+ SPN1120, First Year Spanish I	4
+ SPN1121, First Year Spanish II	4
+ SPC1608, Introduction to Public Speaking.....	3

TOTAL DEGREE HOURS 60

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

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

* Minimum grade of "C" required.

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

GENERAL EDUCATION COURSES **Cr. Hrs.**

+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

+* MAC1114, Trigonometry	3
+* MAC2311, Calculus I.....	4
(Meets math requirement for A.A.)	
+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010L, Biology for Science Maj. I Lab	1
+* BSC2011, Biology for Science Majors II	3
BSC2011L, Biology for Science Maj. II Lab	1
+* CHM1045, General Chemistry.....	3
(Meets physical science requirement for A.A.)	
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

**TRANSFER TRACK/EARLY CHILDHOOD
(CHLD-AA) (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.

GENERAL EDUCATION COURSES **Cr. Hrs.**

+* ENC1101, English I.....	3
+* ENC1102, English II	3
+* Approved mathematics (STA, MAC, MGF).....	6
EUH 1000 or 1001, Western Civilization.....	3
PSY 2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
Physical Science.....	3
+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

EDF1005, Introduction to the Teaching Profession	3
EDF2085, Introduction to Diversity for Educators.....	3
EME2040, Introduction to Technology for Educators... 3	

ELECTIVES 15

RECOMMENDED ELECTIVES

+* MAC1105, College Algebra
+ SPC1608, Introduction to Public Speaking
DEP2000, Psychology of Childhood and Youth
or DEP 2004, Developmental Psychology
AMH2010 or AMH 2020, U.S. History I or II
SYG2000, Principles of Sociology

TOTAL DEGREE HOURS 60

**TRANSFER TRACK/ECONOMICS
(ECON-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (STA, MAC, MGF)	6
EUH 1000 or 1001, Western Civilization	3
PSY 2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+ ECO2013, Economics, Macro	3
+ ECO2023, Economics, Micro	3

Foreign language (if not completed in high school) or electives

ELECTIVES 10

RECOMMENDED ELECTIVES

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

TOTAL DEGREE HOURS 60

**TRANSFER TRACK/ECONOMICS FOR BUSINESS
(ECOB-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC/STA)	3
+* MAC2233, Calculus for Business	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

CGS1570, Microcomputer Applications	3
* ACG2001, Financial Accounting I	3
+* ACG2011, Financial Accounting II	3
+ ECO2013, Economics, Macro	3
+ ECO2023, Economics, Micro	3
+ ACG2071, Managerial Accounting	3

ELECTIVES 6

TOTAL DEGREE HOURS 60

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

* Minimum grade of "C" required.

**TRANSFER TRACK/ELEMENTARY TEACHER EDUCATION
(ELTCH-AA) (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 adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

EDF1005, Introduction to the Teaching Profession	3
EDF2085, Introduction to Diversity for Educators	3
EME2040, Introduction to Technology for Educators ..	3

ELECTIVES

RECOMMENDED ELECTIVES

+* MAC1105, College Algebra	
+ SPC1608, Introduction to Public Speaking	
AMH2010, 2020, American History	
Physical Science (PSC, PHY, CHM)	
Science Lab	

TOTAL DEGREE HOURS 60

**TRANSFER TRACK/ENGINEERING
(ENGNR-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* MAC2311, Calculus I	4
+* MAC2312, Calculus II	4
(Meets math requirement for A.A.)	
+* MAC2313, Calculus III	4
+ PHY2048, University Physics I	4
(Meets physical science requirement for A.A.)	
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

TOTAL DEGREE HOURS 60

**TRANSFER TRACK/ENGLISH
(ENGL-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government.....	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
Physical Science.....	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

OPTION 1: English General

ELECTIVES	24
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OPTION 2: English Teacher Education

EDF1005, Introduction to the Teaching Profession.....	3
EDF2085, Introduction to Diversity for Educators.....	3
EME2040, Introduction to Technology for Educators..	3

ELECTIVES	12
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RECOMMENDED ELECTIVES

Further English, Literature, and/or writing courses taught in the Language and Literature Division.

TOTAL DEGREE HOURS	60
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**TRANSFER TRACK/ENTOMOLOGY
(ENTOM-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
EUH 1000 or 1001, Western Civilization.....	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010L, Biology for Science Maj. I Lab	1
+* BSC 2011, Biology for Science Majors II.....	3
BSC2011L, Biology for Science Maj. II Lab	1
+* STA 2023, Statistics.....	3
+* MAC1114, Trigonometry	3
(Meets math requirement for A.A.)	
+* MAC2311, Calculus I	4
+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
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
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TOTAL DEGREE HOURS	60
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+ Prerequisites and/or corequisites required. See course descriptions.

* Minimum grade of "C" required.

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES¹

+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010L, Biology for Science Maj. I Lab	1
+* BSC2011, Biology for Science Majors II	3
BSC2011L, Biology for Science Maj. II Lab	1
+* STA 2023, Statistics	3
+* MAC2312, Calculus II	4
(Meets math requirement for A.A.)	
+* CHM1046, Chemistry with Qual Analysis	3
CHM1046L, Chemistry with Qual Anal. Lab	2
+* PHY2048, University Physics I	4
(Meets physical science requirement for A.A.)	
PHY2048L, University Physics I Lab	1
+* PHY2049, University Physics II	4
PHY2049L, University Physics II Lab	1
+ ECO2013, Economics, Macro	3
+ ECO2023, Economics, Micro	3

TOTAL DEGREE HOURS 60

¹GCSC strongly recommends that EVR1001 be completed before transferring.

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010L, Biology for Science Maj. I Lab	1
+* BSC2011, Biology for Science Majors II	3
BSC2011L, Biology for Science Maj. II Lab	1
+* MAC1140, Pre-Calculus Algebra	3
+* STA2023, Statistics	3
(Meets math requirements for A.A.)	
+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
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
+ ECO2013, Economics, Macro	3
+ ECO2023, Economics, Micro	3

ELECTIVES¹ 3

TOTAL DEGREE HOURS 60

¹GCSC strongly recommends that EVR1001 be completed before transferring.

**TRANSFER TRACK/FOREIGN LANGUAGE
(FORLG-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government.....	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
Physical Science.....	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

OPTION 1: Spanish**COMMON COURSE PREREQUISITES**

Foreign Language	15
ELECTIVES	9

OPTION 2: Foreign Languages Teacher Education**COMMON COURSE PREREQUISITES**

Foreign Language	15
EDF1005, Introduction to the Teaching Profession.....	3
EDF2085, Introduction to Diversity for Educators.....	3

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
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TOTAL DEGREE HOURS	60
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**TRANSFER TRACK/FORESTRY
(TREE-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization.....	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

+ PH Y1023, Survey of General Physics	3
+ ENC2210, Technical Writing	3
+ CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
CHM1045L, General Chemistry Lab	1
+* STA2023, Statistics.....	3
+* MAC2311, Calculus I	4
(Meets math requirement for A.A.)	
+ SPC1608, Introduction to Public Speaking.....	3
+ BSC2010, Biology for Science Majors I	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
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TOTAL DEGREE HOURS	60
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+ Prerequisites and/or corequisites required. See course descriptions.

* Minimum grade of "C" required.

**TRANSFER TRACK/GEOLOGY
(GEOL-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government.....	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

GLY1010, Physical Geology.....	3
(Meets physical science requirement for A.A.)	
+* MAC2311, Calculus I.....	4
+* MAC2312, Calculus II	4
(Meets math requirement for A.A.)	
+* 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

**TRANSFER TRACK/HEALTH EDUCATION
(HLTH-AA) (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 adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
+* Approved mathematics (MAC, MGF, STA).....	6
EUH1000 or 1001, Western Civilization.....	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

Physical Science.....	3
+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE 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
+ BSC2085, Anatomy and Physiology I	3
(Meets biology requirement for A.A.)	
BSC2085L, Anatomy and Physiology Lab	1

ELECTIVES..... 8

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

TOTAL DEGREE HOURS..... 60

+ 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE 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) (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)	6
(FAMU requires MAC2233)	
PSY2012 or SYG2000 Psychology/Sociology	3
Biological Science	3
Physical Science	3
Electives	9

HEALTH INFORMATION MANAGEMENT OPTION (MEDRC-AA) (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.

+* STA2023, Statistics	3
+* Approved mathematics (MAC)	3
PSY2012 or SYG2000 Psychology/Sociology	3
+* BSC2085, Anatomy and Physiology I	3
(Meets biology requirement for A.A.)	

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

HEALTH SCIENCE OPTION (HS-AA) (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	3
(Meets physical science requirement for A.A.)	
CHM1045L, General Chemistry I Lab	1
Electives	4

TOTAL DEGREE HOURS 60

+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/HISTORY
(HIST-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000, Western Civilization I	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

EUH1001, Western Civilization II or AMH2010, U.S. History or AMH2020, U.S. History II	6
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ELECTIVES..... 18

RECOMMENDED ELECTIVE

GEO1000, Introduction to Geography	3
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TOTAL DEGREE HOURS 60

**TRANSFER TRACK/INFORMATION TECHNOLOGY
(LIS-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3
+* MAC1105, College Algebra	3
+* PHI2600, Ethics	3
+* STA2023, Statistics	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* PHI2600, Ethics	3
(Meets Humanities II requirement)	
+* Humanities III	3

COMMON COURSE 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	4
+ PHY2053L or PHY2048L, College Physics or University Physics I	1
+ ECO2012, Economics, Macro	3
COP1000, Intro to Programming Logic	3
+ COP2228 or COP2250, Intro to C++ or JAVA Programming I	3
COP2700, Data Structures (SQL)	3

TOTAL DEGREE HOURS 60

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* Any 2000 level PHI.....	3
(Meets HUM II requirement for A.A.)	
+* MAC1105, College Algebra.....	3
+* MAC1114, Trigonometry.....	3
(Meets math requirement for A.A.)	
+* BSC2010, Biology for Science Majors I	3
BSC2010L, Biology for Science Maj. I Lab	1
+ CHM1040, Fundamental s of Chemistry	3
CHM1040L, General, Organic, Biochemistry Lab	1
(Meets physical science requirement for A.A.)	
EGS1110C, Engineering Drawing.....	3
BCN1230, Materials and Methods	3
+ SUR2101, Surveying	3
SPC1608, Introduction to Public Speaking	3

ELECTIVES	10
Recommended elective: ART1300C	

TOTAL DEGREE HOURS	60
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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.

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

* Minimum grade of "C" required.

TRANSFER TRACK/LEGAL STUDIES (LGLST-AA) (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.

GENERAL EDUCATION COURSES **Cr. Hrs.**

+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	6
+* STA2023, Statistics	3
+ EUH1000 or 1001, Western Civilization	3
+ PSY2012 or SYG2000, Psychology/Sociology	3
+ POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* Humanities II (Recommend PHI2600, Ethics)	3
+* Humanities III	3

ELECTIVES..... 24**RECOMMENDED ELECTIVES**

+ PLA1104, Legal Writing and Research I
PLA1203, Civil Practice and Procedure I
PLA2308, Criminal Procedure
CCJ1010, Introduction to Criminology
CCJ1020, Intro. to Criminal Justice
CJL2100, Criminal Law
CJL2130, Evidence
PLA2190, Legal Reasoning
+ MAT1033, Intermediate Algebra
+ SYG2000 or PSY2012, Sociology/Psychology
CGS1570, Microcomputer Applications
+ SPN1120, First Year Spanish I
+ SPN 1121, First Year Spanish II
+ SPC1608, Introduction to Public Speaking

TOTAL DEGREE HOURS 60

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

TRANSFER TRACK/MARINE BIOLOGY (MARBI-AA) (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 adviser for additional information.

GENERAL EDUCATION COURSES **Cr. Hrs.**

+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010L, Biology for Science Maj. I Lab	1
+* BSC2011, Biology for Science Majors II	3
BSC2011L, Biology for Science Maj. II Lab	1
+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
CHM1045L, General Chemistry I Lab	1
+* CHM1046, Chemistry with Qual. Analysis	3
CHM1046L, Chemistry with Qual. Anal. Lab	2
+* MAC2311, Calculus	4
+* MAC2312, Calculus II	4
(Meets math requirement for A.A.)	
+* CHM2010, Organic Chemistry I	3
CHM2010L, Organic Chemistry I Lab	2
+* CHM2011, Organic Chemistry II	4
CHM2011L, Organic Chemistry II Lab	1

ELECTIVE..... 1**TOTAL DEGREE HOURS** 60

**TRANSFER TRACK/MATHEMATICS
(MATH-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
Physical Science.....	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

+ Approved Programming Language	3
(COP2250 Introduction to Java is recommended)	
+* MAC2311, Calculus I.....	4
+* MAC2312, Calculus II.....	4
(Meets math requirement for A.A.)	
+* MAC2313, Calculus III.....	4

8 semester hours of a laboratory science – select 2 of the following with their accompanying lab (10 hours):

+* PHY2048, University Physics I.....	4
(Meets physical science requirement for A.A.)	
+ PHY2048L, University Physics I Lab	1
+* PHY2049, University Physics II.....	4
+ PHY2049L, University Physics II Lab	1
+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
+ BSC2010L, Biology for Science Majors I Lab	1
+ BSC2011, Biology for Science Majors II	3
+ BSC2011L, Biology for Science Majors II Lab	1
+* CHM1045, General Chemistry.....	3
(Meets physical science requirement for A.A.)	
+ CHM1045L, General Chemistry I Lab.....	1
+* CHM1046, Chemistry with Qual. Analysis	3
CHM1046L, Chemistry with Qual. Analysis Lab.....	1

ELECTIVES..... 4-7
(Assuming a student chooses to take Biology or Physics/Chemistry to fulfill the General Ed Course Requirement for one of these areas.)

RECOMMENDED ELECTIVES:
STA2023, Statistics
MAP2302, Differential Equations

TOTAL DEGREE HOURS 60

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

* Minimum grade of "C" required.

**TRANSFER TRACK/MATHEMATICS EDUCATION
(MTHED-AA) (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 adviser 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.

- SPC1608, Introduction to Public Speaking
- MAC1105, College Algebra
- MAC1140, Pre-Calculus Algebra
- MAC1114, Trigonometry
- Physical Science and Lab

TOTAL DEGREE HOURS 60

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology (Life Science).....	3
Physical Science.....	3
(Choose from ESC2000, GLY1010, MET1010, AST1002, EVR1001, OCE1001)	
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3
(see adviser for recommended humanities courses)	

COMMON COURSE PREREQUISITES

EDF1005, Introduction to the Teaching Profession.....	3
EDF2085, Introduction to Diversity for Educators.....	3
EME2040, Introduction to Technology for Educators ..	3
+ Approved Programming Language	3
+* MAC2311, Calculus I	4
+* MAC2312, Calculus II.....	4

ELECTIVES 10-13

RECOMMENDED ELECTIVES:

+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

**TRANSFER TRACK/MEDICAL
(MED-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010, Biology for Science Maj. I Lab	1
+* BSC2011, Biology for Science Majors II	3
BSC2011L, Biology for Science Maj. II Lab	1
+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
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
+* Approved Mathematics	6
(Meets math requirement for A.A.)	

TOTAL DEGREE HOURS 60

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

* Minimum grade of "C" required.

**TRANSFER TRACK/MEDICAL TECHNOLOGY
(MEDTC-AA) (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.

+* CHM2210, Organic Chemistry I	3
+* CHM2210L, Organic Chemistry I Lab	2
+* CHM2211, Organic Chemistry II	4
+ CHM2211L, Organic Chemistry II Lab	1

TOTAL DEGREE HOURS 60

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* MAC1140, Pre-Calculus Algebra	3
+* STA2023, Statistics	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
CHM1045L, General Chemistry Lab	1
+* CHM1046, Chemistry with Qual. Analysis	3
CHM1046L, Chemistry with Qual. Anal. Lab	2
+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
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

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

* Minimum grade of "C" required.

**TRANSFER TRACK/METEOROLOGY
(METR-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS 2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* MAC2311, Calculus I.....	4
+* MAC2312, Calculus II.....	4
(Meets math requirement for A.A.)	
+ PHY2048, University Physics I.....	4
(Meets physical science requirements for A.A.)	
PHY2048L, University Physics I Lab	1
+ PHY2049, University Physics II.....	4
PHY2049L, University Physics II Lab	1

ELECTIVES..... 15

RECOMMENDED ELECTIVES:

MET1010, Introduction to Meteorology
STA2023, Statistics
MAC2313, Calculus III
MAP2302, Differential Equations

TOTAL DEGREE HOURS 60

**TRANSFER TRACK/MIDDLE SCHOOL SCIENCE
EDUCATION (SCMED-AA) (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 adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization.....	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II.....	3
+* Humanities III.....	3

COMMON COURSE PREREQUISITES

EDF1005, Introduction to the Teaching Profession	3
EDF2085, Introduction to Diversity for Educators.....	3
EME2040, Introduction to Technology for Educators... 3	
+* Mathematics	6
(As approved by adviser)	
(Meets math requirement for A.A.)	
OCE1001, Oceanography.....	3
(Meets physical science requirement for A.A.)	
GLY1010, Geology.....	3
GLY1010L, Geology Lab	1

ELECTIVES..... 2-5

(If students do not take the following BSC 2010 sequence, then they must take BSC 1005 or approved biology to meet the biology requirement for the A.A.)

Students must also complete one of the following two-semester sequences in science:

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

* Minimum grade of "C" required.

+* BSC2010/L and	
+* BSC2011/L, Biology for Science Majors	8
or	
+* PHY2053/L and	
+* PHY2054/L, Physics	8
or	
+* CHM1045/L and	
+* CHM1046/L, Chemistry	9
TOTAL DEGREE HOURS	60

TRANSFER TRACK/MUSIC (MUSIC-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA).....	6
EUH1000 or 1001, Western Civilization.....	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3
+ MUL2110, Survey of Music Lit	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+* Humanities II.....	3
+* Humanities III.....	3

COMMON COURSE 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

APPROVED ELECTIVES..... 6

Students should select from the following:

+ Applied Music Prep. (private lessons)	2 each
(Open to music and theatre majors ONLY)	
+ Applied Music (private lessons).....	2 each
(Open to music and theatre majors ONLY)	
Performance Ensemble	1 each
+ MUL2010, Understanding Music	3
+ MUS2550, Music Technology	3

TOTAL DEGREE HOURS 60

**TRANSFER TRACK/NURSING
(NURSE-AA) (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 adviser and a BSN adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	6
+* STA2023, Statistics	3
POS2041, American National Government	3
PSY2012, Psychology	3
EUH1000 or 1001, Western Civilization	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+ BSC2085, Anatomy and Physiology I	3
(Meets biology requirement for A.A.)	
BSC2085L, Anatomy and Physiology I Lab	1
CHM1032, Gen, Organic, Biochemistry	3
(Meets physical science requirement for A.A.)	
+ BSC2086, Anatomy and Physiology II	3
BSC2086L, Anatomy and Physiology II Lab	1
HUN1201, Nutrition	3
SYG2000, Sociology	3
+ MCB2004, Microbiology	3
MCB2004L, Microbiology Lab	1
DEP2004, Developmental Psychology	3

ELECTIVES..... 6

TOTAL DEGREE HOURS 60

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

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* MAC1105, College Algebra	3
+* MAC1140, Precalculus Algebra	3
EUH1000 or 1001, Western Civilization	3
PSY2012, Psychology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* ¹ BSC2010, Biology for Science Majors	3
+ 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
+ CHM1045/L, General Chemistry & Lab	4
+ CHM1046/L, Gen Chem/Qual Analysis & Lab	4
+ CHM2210/L, Organic Chemistry/Lab	4
HUN1201, Principles of Nutrition	3
MCB2004/L, Microbiology & Lab	4

TOTAL DEGREE HOURS 60

¹Lab not required, but highly recommended.

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

* Minimum grade of "C" required.

**TRANSFER TRACK/OCCUPATIONAL THERAPY
(OCCTH-AA) (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.

PHY2053, College Physics I	1
PHY2053L, College Physics I Laboratory	1
OR	
+* PHY2048, University Physics.....	4
+ PHY2048L, University Physics Lab.....	1
ELECTIVES	2 or 3
TOTAL DEGREE HOURS	60

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* MAC2311, Calculus I.....	4
+* STA2023, Statistics	3
(Meets math requirement for A.A.)	
OCE1001, Oceanography.....	3
(Meets physical science requirement for A.A.)	
Any Biology with lab.....	4
(Meets biology requirement for A.A.)	
+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
+ 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

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

* Minimum grade of "C" required.

**TRANSFER TRACK/OCEANOGRAPHY
(OCEAN-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* MAC2311, Calculus I	4
+* MAC2312, Calculus II	4
(Meets math requirement for A.A.)	
OCE1001, Oceanography	3
(Meets physical science requirement for A.A.)	
+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010L, Biology for Science Maj. 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

TOTAL DEGREE HOURS

**TRANSFER TRACK/OPTOMETRY
(OPTO-AA) (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 adviser for additional information concerning admissions requirements and for assistance in selecting the appropriate program.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG 2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
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
+* MAC1140, Pre-Calculus Algebra	3
+* MAC1114, Trigonometry	3
(Meets math requirement for A.A.)	
+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
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

TOTAL DEGREE HOURS

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

* Minimum grade of "C" required.

**TRANSFER TRACK/ORNAMENTAL HORTICULTURE
(PLANT-AA) (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 adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010L, Biology for Science Maj. I Lab	1
+* BSC2011, Biology for Science Majors II	3
BSC2011L, Biology for Science Maj. II Lab	1
+* MAC1140, Pre-Calculus Algebra	3
+* MAC1114, Trigonometry	3
(Meets math requirement for A.A.)	
+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
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
(STA2023, Statistics is recommended)	

TOTAL DEGREE HOURS	60
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TRANSFER TRACK/PHARMACY (PHARM-AA) (PHRM)

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 adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010L, Biology for Science Maj. I Lab	1
+* BSC2011, Biology for Science Majors II	3
BSC2011L, Biology for Science Maj. II Lab	1
+* MAC1140, Pre-Calculus Algebra	3
+* MAC2311, Calculus I	4
(Meets math requirement for A.A.)	
+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
CHM1045L, General Chemistry Lab	1
+* CHM1046, Chemistry with Qual. Analysis	3

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

* Minimum grade of "C" required.

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
TOTAL DEGREE HOURS	60

TRANSFER TRACK/PHILOSOPHY (PHIL-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA).....	6
EUH1000, Western Civilization I	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I.....	3
+* Humanities II.....	3
+* Humanities III.....	3

ELECTIVES..... 24

RECOMMENDED ELECTIVES

+* PHI2600, Ethics	3
(Meets Area II Humanities requirement for A.A.)	
+* PHH2060, Intro. to Classical Philosophy	3
(Meets Area II Humanities requirement for A.A.)	
+* PHI2002, Intro. to Mod/Cont. Philosophy	3
(Meets Area II Humanities requirement for A.A.)	
+* PHI2635, Biomedical Ethics	3
(Meets Area II Humanities requirement for A.A.)	
EUH1001, Western Civilization II	3

TOTAL DEGREE HOURS 60

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

* Minimum grade of "C" required.

TRANSFER TRACK/PHYSICAL EDUCATION (PE-AA) (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 adviser 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.

ELECTIVES 6-7

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

TOTAL DEGREE HOURS 60

GENERAL EDUCATION COURSES **Cr. Hrs.**

- +* ENC1101, English I 3
- +* ENC1102, English II 3
- +* Approved mathematics (MAC, MGF, STA) 6
- EUH1000 or 1001, Western Civilization 3
- PSY2012 or SYG2000, Psychology/Sociology 3
- POS2041, American National Government 3
- For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.
- Physical Science 3
- + Humanities I 3
- +* Humanities II 3
- +* Humanities III 3

COMMON COURSE PREREQUISITES

- EDF1005, Introduction to the Teaching Profession 3
- EDF2085, Introduction to Diversity for Educators 3
- EME2040, Introduction to Technology for Educators .. 3
- + BSC2085, Anatomy and Physiology I 3
- (Meets biology requirement for A.A.)
- BSC2085L, Anatomy and Physiology Lab 1
- HLP1081, Wellness 2
- PET2622, Care & Prevention of Athletic Injuries **or**
- + BSC2086, Anatomy and Physiology II 3
- BSC2086L, Anatomy and Physiology Lab 1
- PEN or PEM Activity Classes 2

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

* Minimum grade of "C" required.

**TRANSFER TRACK/PHYSICAL THERAPY
(PT-AA) (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 adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH 1000 or 1001, Western Civilization	3
PSY2012, Psychology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010L, Biology for Science Maj. I Lab	1
+* BSC2011, Biology for Science Majors II	3
BSC2011L, Biology for Science Maj. II Lab	1
+* MAC1114, Trigonometry	3
+* STA2023, Statistics	3
(Meets math requirement for A.A.)	
+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
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, Dev. Psychology	3
Approved Anatomy and Physiology	2

TOTAL DEGREE HOURS 60

**TRANSFER TRACK/PHYSICS
(PHYSC-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+* MAC2311, Calculus I	4
+* MAC2312, Calculus II	4
(Meets math requirement for A.A.)	
+* MAC2313, Calculus III	4
+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
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
(usually MAP2302, Differential Equations)	

TOTAL DEGREE HOURS 60

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

* Minimum grade of "C" required.

**TRANSFER TRACK/POLITICAL SCIENCE
(POLSC-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000 or 1001, Western Civilization.....	3
PSY 2012, Psychology or SYG2000 Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
Physical Science.....	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

CPO2002, Comparative Government or INR 2002, International Relations or POS2112, State and Local Government.....	6
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ELECTIVES..... 18

TOTAL DEGREE HOURS..... 60

**TRANSFER TRACK/PSYCHOLOGY
(PSYCH-AA) (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 adviser within the first semester of attending GCSC.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II	3
+* MAC1105, College Algebra	3
+* STA2023, Elementary Statistics	3
EUH1000 or 1001, Western Civilization.....	3
PSY 2012, General Psychology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses unless otherwise specified.

+ Biology.....	3
Physical Science.....	3
+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

DEP2000, Psy. of Childhood and Youth or DEP2004, Developmental Psychology	3
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ELECTIVES 21

RECOMMENDED ELECTIVE

CLP1001, Human Relations	3
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TOTAL DEGREE HOURS..... 60

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

+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

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.

TRANSFER TRACK/RADIOLOGIC SCIENCE (RADSC-AA) (RADS-AA)

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* MAC1105, College Algebra	3
+* MAC1114, Plane Trigonometry	3
PSY2012 or SYG2000, Psychology/Sociology	3
EUH1000 or 1001, Western Civilization.....	3
POS 2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I.....	3
+* Humanities II.....	3
+* Humanities III.....	3

COMMON COURSE PREREQUISITES

CGS1570, Microcomputer Applications.....	3
+ BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
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
+ PHY2053, College Physics I	3
(Meets physical science requirement for A.A.)	
PHY2053L, College Physics I Lab	1
+ PHY2054, College Physics II	3
PHY2054L, College Physics II Lab	1

ELECTIVE

Foreign Language or Electives	7
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TOTAL DEGREE HOURS 60

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

* Minimum grade of "C" required.

**TRANSFER TRACK/RECREATION
(RECRE-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000 or 1001, Western Civilization	3
PSY2012, Psychology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

LEISURE SERVICES MANAGEMENT EMPHASIS**COMMON COURSE PREREQUISITES**

DEP2004, Developmental Psychology	3
CGS1570, Microcomputer Applications	3
MAN2021, Principles of Management	3
MAR2011, Marketing	3
+ ECO2013, Principles of Economics, Macro	3
SPC1608, Introduction to Public Speaking	3

ELECTIVES

6
(Students should coordinate with their adviser to determine which electives will transfer to the four year institution of their choice. Also, students should fulfill the foreign language requirement, if necessary.)

RECREATION PROGRAM EMPHASIS**COMMON COURSE PREREQUISITES**

DEP2004, Developmental Psychology	3
SYG2000, Principles of Sociology	3
CGS1570, Microcomputer Applications	3
MAR2011, Principles of Marketing	3
ENC2210, Technical Writing	3
ELECTIVES	9

NATURAL RESOURCES EMPHASIS**COMMON COURSE PREREQUISITES**

CGS1570, Microcomputer Applications	3
DEP2004, Developmental Psychology	3
MAR2011, Marketing	3
+ ECO2013, Principles of Economics, Macro	3

ELECTIVES

THERAPEUTIC RECREATION EMPHASIS**COMMON COURSE PREREQUISITES**

DEP2004, Developmental Psychology	3
+ BSC2085, Anatomy and Physiology I	3
(Meets Biology requirement for A.A.)	
+ BSC2085L, Anatomy and Physiology I Lab	1

ELECTIVES

TOTAL DEGREE HOURS

60

**TRANSFER TRACK/RELIGION
(RELIG-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000, Western Civilization I	3
PSY2012, General Psychology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

ELECTIVES 24

RECOMMENDED ELECTIVES

ANT2000, Anthropology	3
EUH1001, Western Civilization II	3
SYG2000, Sociology	3
+* REL2121, Religion in American Life	3
(Meets Area II Humanities requirement for A.A.)	
+* REL2300, Religions of the World	3
(Meets Area II Humanities requirement for A.A.)	

TOTAL DEGREE HOURS 60

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

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
POS2041, American National Government	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
+* MAC1105, College Algebra	3
+* STA2023, Statistics	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

+ BSC2085, Anatomy and Physiology I	3
(Meets biology requirement for A.A.)	
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
+ PHY2053, College Physics I	3
(Meets physical science requirement for A.A.)	
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

TOTAL DEGREE HOURS 60

+ 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 adviser 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.

GENERAL EDUCATION COURSES**Cr. Hrs.**

+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
EUH1000 or 1001, Western Civilization	3
PSY2012or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government	3
For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.....	
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE 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.....	3
(Meets math requirement for A.A.)	
+ SPC1608, Introduction to Public Speaking	3

BIOLOGY COMPONENT (SCBED-AA) (SCED-AA)

+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
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
CHM1045L, General Chemistry Lab.....	1

+* CHM1046, Chemistry with Qual. Analysis	3
CHM1046L, Chemistry with Qual. Anal. Lab	2
or	
+* PHY2053, College Physics I	3
PHY2053L, College Physics I Lab	1
+* PHY 2054, College Physics II	3
PHY2054L, College Physics II Lab	1

CHEMISTRY COMPONENT (SCCED-AA) (SCHM-AA)

+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
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	8
+* BSC2010, Biology for Science Majors I	3
BSC2010L, Biology of Science Majors I Lab.....	1
+* BSC 2011, Biology for Science Majors II.....	3
BSC2011L, Biology of Science Majors II Lab.....	1
or	
+* PHY2053, College Physics I	3
PHY2053L, College Physics I Lab	1
+* PHY2054, College Physics II	3
PHY2054L, College Physics II Lab	1

(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.)

PHYSICS COMPONENT (SCPED-AA) (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:.....	8 or 9
+* BSC2010, Biology for Science Majors I	3
BSC2010L, Biology for Science Majors I Lab	1
+* BSC 2011, Biology for Science Majors II.....	3
BSC2011L, Biology for Science Majors II Lab	1
or	

+* CHM1045, General Chemistry	3
CHM1045L, General Chemistry Lab	1
+* CHM1046, Chemistry with Qual. Analysis	3
CHM1046L, Chemistry with Qual. Anal. Lab	2

(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.)

EARTH/SPACE COMPONENT (SCEED-AA) (SEAR)

OCE1001, Oceanography.....	3
(Meets physical science requirement for A.A.)	
GLY1010, Geology.....	3
GLY1010L, Geology Lab	1
Science Elective	2 or 3

Students must select one of the following

two-semester sequences	8 or 9
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+ Prerequisites and/or corequisites required. See course descriptions.

* Minimum grade of "C" required.

+* BSC2010, Biology for Science Majors I	3
BSC2010L, Biology for Science Majors I Lab	1
+* BSC2011, Biology for Science Majors II	3
BSC2011L, Biology for Science Majors II Lab	1
or	
+* CHM1045, General Chemistry	3
CHM1045L, General Chemistry Lab	1
+* CHM 1046, Chemistry with Qual. Analysis	3
CHM1046L, Chemistry with Qual. Anal. Lab	2
or	
+* PHY2053, College Physics I	3
PHY2053L, College Physics I Lab	1
+* PHY2054, College Physics II	3
PHY2054L, College Physics II Lab	1

(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 (SCMED-AA) (SCMD-AA)
See Middle School Science Education

TOTAL DEGREE HOURS 60

TRANSFER TRACK/SOCIAL STUDIES EDUCATION (SOCST-AA) (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 adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+* Humanities II	3
+* Humanities III	3

COMMON COURSE PREREQUISITES

EDF1005, Introduction to the Teaching Profession	3
EME2040, Introduction to Technology for Educators... 3	
EDF2085, Introduction to Diversity for Educators	3

ELECTIVES 15

RECOMMENDED ELECTIVES

AMH2010 or AMH2020, U.S. History	3
+ ECO2013 or ECO2023, Economics Macro/Micro	3
EUH1000 or EUH1001, Western Civilization	3
SPC1608, Introduction to Public Speaking	3
GEO1000, Geography	3

TOTAL DEGREE HOURS 60

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

* Minimum grade of "C" required.

**TRANSFER TRACK/SOCIAL WORK
(SOCWK-AA) (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.

GENERAL EDUCATION COURSES **Cr. Hrs.**

+* ENC1101, English I	3
+* ENC1102, English II	3
+*Approved mathematics (MAC, MGF, STA)	6
EUH1000 or 1001, Western Civilization	3
SYG2000, Principles of Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
Physical Science.....	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

+ ECO2013, Economics, Macro or	
+ ECO2023, Economics, Micro.....	3
PSY2012, Psychology.....	3

ELECTIVES 18**RECOMMENDED ELECTIVES**

SYG2010, Social Problems.....	3
SOW2020, Introduction to Social Work	3
SYG2430, Marriage and Family Living	3
CJL2210, Criminal Law	3
CCJ1010, Introduction to Criminal Justice	3
CCJ1020, Introduction to Criminology.....	3
CCJ2500, Juvenile Justice.....	3
DEP2000, Child Psychology	3
CLP1001, Human Relations	3
DEP2004, Developmental Psychology.....	3
ECO2013, Economics, Micro.....	3
ECO2023, Economics, Macro.....	3

TOTAL DEGREE HOURS 60

Beginning in the Fall 2009 semester, FSU will require 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 CGS1570 for entry into the program.

**TRANSFER TRACK/SOCIOLOGY
(SOCIO-AA) (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.

GENERAL EDUCATION COURSES **Cr. Hrs.**

+* ENC1101, English I	3
+* ENC1102, English II	3
+*Approved mathematics (MAC, MGF, STA).....	6
EUH1000 or 1001, Western Civilization	3
SYG2000, Principles of Sociology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science.....	3
+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

SYG2010, Social Problems	3
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ELECTIVES 21**RECOMMENDED ELECTIVES**

SOW2020, Introduction to Social Work.....	3
SYG2430, Marriage and Family Living.....	3
CCJ1010, Intro to Criminology	3
CCJ1020, Intro to Criminal Justice	3
CCJ2100, Criminal Law.....	3
CCJ2500, Juvenile Justice.....	3
PSY2012, Psychology	3
DEP2000, Child Psychology.....	3
DEP2004, Developmental Psychology	3
CLP1001, Human Relations.....	3
+ ECO2013, Economics, Micro.....	3
+ ECO2023, Economics, Macro.....	3

TOTAL DEGREE HOURS 60

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

* Minimum grade of "C" required.

**TRANSFER TRACK/SPECIAL EDUCATION
(CASE-AA) (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 adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics	6
EUH1000 or 1001, Western Civilization	3
PSY2012/SYG2000, Psychology or Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+Biological Science	3
Physical Science	3
+Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

EDF1005, Introduction to the Teaching Profession.....	3
EDF2085, Introduction to Diversity for Educators.....	3
EME2040, Introduction to Technology for Educators ..	3

ELECTIVES..... 15

RECOMMENDED ELECTIVES

+* MAC1105, College Algebra.....	3
DEP2000 or DEP2004, Psychology.....	3
+ SPC1608, Introduction to Public Speaking	3

TOTAL DEGREE HOURS 60

**TRANSFER TRACK/SPORTS MEDICINE/ATHLETIC TRAINER
(SMAT-AA) (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 adviser 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization.....	3
PSY2012, General Psychology.....	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I.....	3
+*Humanities II.....	3
+*Humanities III.....	3

COMMON COURSE PREREQUISITES

+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
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
+* CHM1045, General Chemistry (or higher level).....	3

+ Prerequisites and/or corequisites required. See course descriptions.
* Minimum grade of "C" required.

+* CHM1045L, General Chemistry Lab.....	1
+ PHY2053, College Physics I.....	3
+ PHY2053L, College Physics I Lab.....	1
HUN1201, Principles of Nutrition.....	3
+* MAC1114, Plane Trigonometry.....	3
+* MAC1140, Precalculus Algebra.....	3
+* STA2023, Statistics.....	3
(Meets math requirement for A.A.)	

RECOMMENDED ELECTIVES

PET2622 Care & Prevention of Sports Injuries.....	3
PEM or PEN Activity Class.....	1

TOTAL DEGREE HOURS..... 60

**TRANSFER TRACK/THEATRE
(THEAT-AA) (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.

GENERAL EDUCATION COURSES

Cr. Hrs.

+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
+* Approved mathematics (MAC, MGF, STA).....	6
EUH1000 or 1001, Western Civilization.....	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
POS2041, American National Government.....	3
+ THE2000, Understanding Theatre.....	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology.....	3
Physical Science.....	3
+* Humanities II.....	3
+* Humanities III.....	3

COMMON COURSE 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
TPA1290, Technical Lab.....	1
THE1925, Play Production.....	1 each

APPROVED ELECTIVES

Students should select from the following:

+ TPA2000, Theatre Design Basics.....	3
+ TPP2300, Directing I.....	3
+ TPP2930, Selected Topics in Theatre Performance.....	3
MVV1012, Applied Musical Theatre Voice Prep.....	2
+ MVV1312, Applied Musical Theatre Voice (Freshman Level).....	2
+ MVV2322, Applied Musical Theatre Voice (Sophomore Level).....	2
DAA2000, Dance Techniques for Theatre.....	1

TOTAL DEGREE HOURS..... 60

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

* Minimum grade of "C" required.

**TRANSFER TRACK/VETERINARY MEDICINE
(VET-AA) (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 adviser for assistance in determining appropriate work experience, course selections, and residency requirements.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
EUH1000 or 1001, Western Civilization	3
PSY2012 or SYG2000, Psychology/Sociology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

COMMON COURSE PREREQUISITES

+* MAC1114, Trigonometry	3
+* MAC2311, Calculus I	4
(Meets math requirement for A.A.)	
+* BSC2010, Biology for Science Majors I	3
(Meets biology requirement for A.A.)	
BSC2010L, Biology for Science Maj. I Lab	1
+* BSC2011, Biology for Science Majors II	3
BSC2011L, Biology for Science Maj. II Lab	1
+* CHM1045, General Chemistry	3
(Meets physical science requirement for A.A.)	
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

**TRANSFER TRACK/WOMEN'S STUDIES
(WOMEN-AA) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC, MGF, STA)	6
EUH1000, Western Civilization	3
PSY2012, General Psychology	3
POS2041, American National Government	3

For the following courses, students have several options to meet the needed requirement. See page 50 for the potential courses.

+ Biology	3
Physical Science	3
+ Humanities I	3
+*Humanities II	3
+*Humanities III	3

ELECTIVES..... 24

RECOMMENDED ELECTIVES

+* PHI2600, Ethics	3
(Meets Area II Humanities requirement for AA)	
+* LIT2040, World Drama	3
(Meets Area III Humanities requirement for AA)	
+ SPC1608, Intro to Public Speaking	3
DEP2004, Developmental Psychology	3
EVR1001, Environmental Science	3
ANT2000, Anthropology	3
EUH1001, Western Civilization	3
WST2010, Intro to Women's Studies	3
SYG2000, Sociology	3
+* LIT2380, Women in Literature	3
(Meets Area III Humanities requirement for A.A.)	

TOTAL DEGREE HOURS 60

+ 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
 Associate in Applied 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 and Associate in Applied Science Degrees

The associate in science and the associate degree programs are 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.

Both Associate in Science and Associate in Applied Science degrees require 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 and the associate in applied science require 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.), and applied associate in science (A.A.S.).

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 and communications.

Students may pursue the following Associate in Science Degree programs:

- Accounting Technology
- Building Construction Technology
- Business Administration and Management
- Civil Engineering Technology
- Dental Hygiene
- Digital Media/Multimedia Technology
- Drafting and Design Technology
- Electronics Engineering Technology
- Emergency Medical Services
- Entrepreneurship
- Fire Science Technology
- Legal Assisting/Paralegal
- Music Production Technology
- Networking Services Technology
- Nursing
- Physical Therapist Assistant

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

- Radiography
- Software and Database Developer

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
- Electronics Engineering Technology
- Nursing

Associate in Applied Science (A.A.S.) Degrees

These terminal degree programs are designed to provide specific instruction in technical fields preparing students for immediate employment. Although an Associate in Applied Science does not transfer to a Florida university, the degree includes a minimum of 15 semester hours of General Education Core credit that are transferable courses.

Students may pursue the following Associate in Applied Science Degree programs:

- Computer Integrated Manufacturing Technology
- Crime Scene Technology
- Criminal Justice Technology
- Culinary Management
- Early Childhood Education
- Hospitality Management
- Office Administration
- Respiratory Care (Therapy)
- Sonography, Diagnostic Medical
- Surgical First Assisting

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 or Associate in Applied Science degree. Completion of this coursework indicates that a student has acquired specific skills necessary for employment.

Applied Technology Diploma

Emergency Medical Technician
Medical Record Transcribing
Pharmacy Technician

College Credit Certificates

Accounting Applications
*Alternative Energy Engineering Technology
Audio Technology
AutoCAD Foundations Technology
Computer & Network Security
Computer Integrated Manufacturing
Crime Scene Technician
*Database Development Specialist
Digital Media/Multimedia Production
Entrepreneurship
Entrepreneurship Operations
*Florida Child Care Professional Credential
Green Building Construction Technology
*Logistics and Transportation Specialist
Medical Office Management
*Nuclear Medicine Technology
Office Management
Paramedic
Sonography, Diagnostic Medical
*Sustainable Design
Web Design and Production

**These certificate programs consist of coursework that is not part of an Associate in Applied Science or 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
Computed Tomography
Magnetic Resonance Imaging
Massage Therapy
Registered Nurse First Assistant

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

Central Service Technology
Certified Nursing Assistant
Correctional Officer
Crossover Correctional Officer to
Law Enforcement Officer

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

Crossover Correctional Probation Officer to
Law Enforcement Officer
Dental Assisting
Electrical Apprenticeship
Firefighting
Law Enforcement Auxiliary Officer
Law Enforcement Officer
Practical Nurse
Private Security Officer
Surgical Technology

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**ACCOUNTING APPLICATIONS
CERTIFICATE (ACCTG-CT) (ACTC-CT)**

AREA OF CONCENTRATION: The purpose of this program is to provide students with an opportunity to enter the accounting field.

COURSES	Cr. Hrs.
+* 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
#+ CTS1205, Excel	3
+ ACG2071, Managerial Accounting	3
+ ACG2450, Basic Computer Augmented Acct.....	3
TOTAL DEGREE HOURS.....	27

**ACCOUNTING TECHNOLOGY
(ACCTG-AS) (ACTG-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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
Humanities	3
+ Approved mathematics (MAC, MGF, STA).....	3
PSY2012 or SYG 2000, Psychology/Sociology	3

MAJOR COURSES

GEB1011, Introduction to Business	3
BUL2241, Business Law	3
+# QMB1001, College Business Math.....	3
* ACG2001, Financial Accounting I	3
+* ACG2011, Financial Accounting II	3
OST1101, Keyboarding & Doc. Processing I.....	3
CGS1570, Microcomputer Applications.....	3
# MNA1100, Human Relations	3
+ ACG2071, Managerial Accounting.....	3
+# OST2335, Business Communications.....	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

ELECTIVES..... 4

TOTAL DEGREE HOURS 64

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**ALTERNATIVE ENERGY ENGINEERING TECHNOLOGY COLLEGE
CREDIT CERTIFICATE
(AEET-CCC) (AEET-CCC)**

AREA OF CONCENTRATION: The purpose of this certificate is to provide students with a foundation of knowledge and technically oriented experiences in the study of alternative energy technology. This certificate focuses on transferable skills and stresses understanding and demonstration of the technological tools, machines, instruments, materials, processes, and systems in business and industry.

The content includes, but is not limited to, a study of power systems and the kinds and sources of energy. The content and activities will also include the study of entrepreneurship, safety, and leadership skills.

COURSES	Cr. Hrs.
# ETP1501, Introduction to Energy, Environment, and Society	3
# ETP1500, Alternative Energy Inventory & Analysis.....	3
# ETP1500L, Alternative Energy Inventory & Analysis Lab	3
+# ETP1410C, Solar Energy	3
+# ETP1520C, Geothermal Energy	3
+# ETP1510, Biofuels and Biomass	3
TOTAL CERTIFICATE HOURS	18

**AUDIO TECHNOLOGY COLLEGE CREDIT CERTIFICATE
(AT-CCC) (ATTC-CCC)**

AREA OF CONCENTRATION: This purpose of this program is to prepare students for employment in the music and entertainment industry as technicians/specialists 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. These could include broadcast media, motion picture trades and other multimedia-based areas. All courses in this program can be used in pursuit of the college's Music Production Technology Associate of Science degree.

CHOOSE 15 HRS. FROM THE FOLLOWING	Cr. Hrs.
CGS1520, Multimedia for the Web	3
DIG2205, Basic Video Editing.....	3
+ MUS2250, Intro to Music Technology	3
DIG2251, Intro to Digital Audio	3
DIG2284, Advanced Digital Video & Sound	3
+ MUM2600, Sound Recording I	3
+* MUM2600L, Sound Recording I Lab	2
+ MUM2601, Sound Recording II	3
+ MUM2604, Multi-Track Mixdown (Post/Prod).....	3
Other approved college credit.....	2

TOTAL CERTIFICATE HOURS..... 15

+ Prerequisites and/or corequisites required. See course descriptions.
Applies only to A.S. degree, A.A.S. degree, and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

**AUTOCAD FOUNDATIONS
TECHNOLOGY COLLEGE CREDIT
CERTIFICATE
(ATCD-CCC) (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	Cr. Hrs.
ETD1320, AutoCAD	3
ETD2350, Advanced AutoCAD.....	3
EGS1110C, Engineering Drawing.....	3
# BCT1040, Blueprint Reading for Bldg Trades	3
ETD2949, Cooperative Ed-Drafting	3
TOTAL DEGREE HOURS.....	15

NOTE: Coursework may be applied to the A.A.S. degree in the Drafting and Design Technology Program.

**BUILDING CONSTRUCTION
TECHNOLOGY (BUILD-AS) (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. The primary goal of the program is to prepare students for employment after graduation. However, some students elect to transfer to an upper division school to seek a baccalaureate degree in building construction once they have completed the general education requirements of an A.A. degree.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English Composition I.....	3
+* ENC1102, English Composition II.....	3
+* MAC1105, College Algebra	3
Social Sciences Elective.	3
Humanities Electives	3

MAJOR COURSES

BCN1230, Materials and Methods	3
EGS1110C, Engineering Drawing	3
+ TAR1120, Architectural Drafting	1
TAR1120L, Architectural Drafting Lab	3
+ ETG2502, Statics	3
+ ETG2530, Strength of Materials	3
# BCT1040, Blueprint Reading	3
# BCT2770, Construction Estimating	3
# BCT2715, Construction Management	3
+ SUR2101, Surveying.....	3
SUR2101L, Surveying Lab	1
ETC2213, Engineering Properties of Soils.....	3
ETC2213L, Eng. Properties of Soils Lab.....	1
# ETC2450, Concrete Design	3
# ETC2450L, Concrete Design Lab	1
BUL2241, Business Law	3
+# ETD1320, AutoCAD or	
+# ETD2395, CAD for Architecture	3
BCN2949, Building Construction	3
# BCN1040, Introduction to Sustainability and Measurement OR	
# ETP1500L, Alternative Energy Inventory and Analysis Lab	3

Subject specific cooperative education may be substituted with permission of adviser

TOTAL DEGREE HOURS 64

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**BUSINESS ADMINISTRATION & MANAGEMENT
(BUS-AS) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+ BSC1005, General Biological Science	3
PSY2012 or SYG2000, Psychology/Sociology	3
Humanities	3

MAJOR COURSES

GEB1011, Introduction to Business	3
+# QMB1001, College Business Math	3
CGS1570, Microcomputer Applications.	3
+ OST1856, Word Processing w/MS Word or OST1102, Keyboarding & Doc. Processing II	3
* ACG2001, Financial Accounting I	3
+* ACG2011, Financial Accounting II	3
BUL2241, Business Law	3
# MNA1100, Human Relations.....	3
+ ECO2013 or 2023, Economics Macro, Micro.....	3

Business Administration Option

+ CGS1544, Database Management with Access	3
+ MAR2011, Marketing.....	3
MAN2021, Prin. of Management	3
+# OST2335, Business Communications	3
# TAX1000, Principles of Taxation I.....	3
+ ACG2071, Managerial Accounting	3
# CGS2518, Spreadsheets for Business Environments....	3
ELECTIVES	1

Marketing Management Option

+# MKA2511, Prin. of Advertising	3
+ MAR2011, Marketing.....	3
GEB2949, Cooperative Education	3
+# OST2335, Business Communications	3
MAN2021, Prin. of Management or SPC1608, Intro to Public Speaking	3
# CGS2069, Internet Marketing or DIG2100, Web Design I	3
ELECTIVES	4

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 4

e-Business Option

# GEB1136, Foundations in e-Business	3
# CGS2069, Internet Marketing.....	3
DIG2100, Web Design I.....	3
+ DIG2101, Web Design II.....	3
# GEB2138, e-Business Law and Ethics.....	3
=# CGS1843, Starting a Business on the Internet	3
+# GEB2139, e-Business Management.....	3

ELECTIVES 1

TOTAL DEGREE HOURS 64

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**CARDIOVASCULAR SONOGRAPHY
ADVANCED TECHNICAL CERTIFICATE
(CVS-ATC) (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.

COURSES

+ SON 2176C, Advanced Vascular Sonography.....	4
+ SON 2400C, Echocardiography I	4
+ SON 2401C, Echocardiography II	4

TOTAL CERTIFICATE HOURS 12

**CENTRAL SERVICE TECHNOLOGY
VOCATIONAL CERTIFICATE
(CS-VC) (CS-VC)**

AREA OF CONCENTRATION: The purpose of this two-semester 16.5 vocational credit (500 hours) program is to educate students in the specialty of Central Service Technology and promote knowledge based critical thinking in the safe practice of Central Service Technology. Upon completion of all graduation requirements, graduates of this program will receive a *Vocational Certificate in Central Service Technology*. 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 **Cr. Hrs.**

All courses must be completed with a "C" or better.

PREREQUISITE VOCATIONAL COURSES

=* STS0009, Terms, Struc & Function Human Body....	2.5v
=* STS0006, Orientation to Surgical Services.....	1.5v
=* STS0006L, Orient to Surgical Services Lab.....	1v
=* STS0030, Microbiology & Infection Control	1.5v

MAJOR COURSES

+* HSC0431, Central Service Technology	3v
+* HSC0431L, Central Service Tech. Lab/Clinical.....	1.5v
+* HSC0811L, Central Service Technology Clinical	5v
+* HSC0930, Central Service Specialty Topics	0.5v

TOTAL HOURS 16.5v

APPLICATION PROCESS:

- A. Apply for admission to Gulf Coast State College.
- B. Submit the Central Service Technology program application forms.
- C. Take the College Placement Test as required in the Central Service Technology selection package.
- D. Submit official high school or GED transcripts to the Office of Admissions and Records.
- E. Submit official transcripts from all previous colleges to the Office of Admissions and Records 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.
- H. Submission of completed documentation of immunization status as required for clinical entry prior to enrollment in STS0006L.
- I. Register and successfully complete the Prerequisite Courses with a grade of "C" or better. There is no

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

guarantee of automatic transition to the Central Service Technology program. Acceptance into the program is based on overall performance.

Fall:

STS0009, Human Body Terms, Struc & Func	2.5v
STS0006, Orientation to Surgical Services	1.5v
STS0006L, Orient to Surgical Services Lab	1v
STS0030, Microbiology & Infection Control.....	1.5v

Requirements Upon Entering the Prerequisite Class

STS0006L:

1. Satisfactory fingerprint/criminal background check.
2. Copy of current Certification in CPR by the American Heart Association, EMS Safety Services, 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 the Office of Admissions and Records prior to Graduation from the program. [Note: Students may begin the program while working on their GED or completing graduation requirements.]

Spring:

HSC0431, Central Service Technology	3v
HSC0431L, Central Service Technology Lab	2v
HSC0811L, Central Service Technology Clinical	5v
HSC0930, Central Service Specialty Topics	0.5v

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 STS0009 Human Body Terms, Structure and Function (or other approved Anatomy & Physiology and Medical Terminology course such as BSC1020 or EMS2010 with OST1257 or STS1300 [includes Medical Terminology]), STS0006/STS0006L Orientation with Lab, and STS0030 Microbiology & Infection Control. 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.

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 two semesters for vocational certificate completion. However, the prerequisite and core program courses with the HSC and STS prefix are only offered during the term indicated. See the program description for surgical first assisting AAS option for those who plan to pursue an AAS degree.

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**CERTIFIED NURSING ASSISTANT
(CNA-VC) (CNA)**

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	Cr. Hrs.
*= HCP0001, Health Careers Core	3v
*= HCP0120C, Basic Nursing Care.....	2.5v

TOTAL VOCATIONAL 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.

**CIVIL ENGINEERING TECHNOLOGY
(CIVL-AS) (CIVL-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™.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English Composition II.....	3
+* MAC1105, College Algebra	3
PSY2012/SGY2000, Psychology/Sociology.....	3
Humanities Elective	3

MAJOR COURSES

EGS1001, Intro. to Engineering	1
+* MAC1114, Plane Trigonometry	3
EGS1110C, 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	3

General Option

+* MAC1140, Pre-Calculus Algebra	3
+ PHY2053, College Physics	3
PHY2053L, College Physics Lab	1
+ CHM1040, Fundamentals of Chemistry.....	3
+# EET1015C, AC & DC Circuits I.....	4
# 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

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

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

COMPUTED TOMOGRAPHY ADVANCED TECHNICAL CERTIFICATE (CTOM-ATC)

This advanced technical certificate offers graduate students and other imaging professionals the opportunity to advance their career in the field of computed tomography. This not only increases their knowledge in the imaging field but enhances their employment opportunity. This is an E-learning program offered to candidates currently certified by the American Registry of Radiologic Technologists (ARRT) in the fields of Radiography, Radiation Therapy and Nuclear Medicine Technology and to graduate imaging students. Technologists may also be registered by the Nuclear Medicine Technology Certification Board. This program offers nine credit hours. Two courses are offered on-line and the clinical course will be offered as a traditional course requiring the student to participate in clinical rotation in an approved clinical setting.

COURSES	Cr. Hrs.
+# RTE2762, Sectional Anatomy/Pathology	3
+# RTE2571, Computed Tomography.....	3
+# RTE2571L, Computed Tomography Clinical Ed.....	3
TOTAL CERTIFICATE HOURS	9

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies only to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

**COMPUTER & NETWORK SECURITY
COLLEGE CREDIT CERTIFICATE
(NET-CCC) (NET-CCC)**

AREA OF CONCENTRATION: Individuals pursuing the Computer and Network Security College Credit Certificate want to begin or advance a career in computer and network security. Graduates from this program seek positions as computer systems and network security administrators, analysts, specialists, technicians and subject matter experts. This program focuses on analysis, planning, administration, troubleshooting, defense and countermeasures. It includes a strong emphasis on continual learning practices, research, problem-solving, and analysis. Students learn to collaborate with peers in a team environment and focus on improving communication, planning, and customer service skills. Courses in this program map to industry recognized certifications including, CompTIA, Network+, Security+, CISSP, SSCP, Cisco CCNA, and Microsoft MCTS and MCITP.

COURSES	Cr. Hrs.
+# CTS1134, Networking Essentials (Network+)	3
+# CTS1120, Computer & Network Security (Security +)	3
+ CTS1651, Router Basics.....	3
+# CTS1346, Managing and Maintaining a Microsoft Windows Server (MS 70-646) OR CTS1347, Windows Server 2008 Network Infrastructure (MS 70-642) OR CTS2345, Server Active** Directory Infrastructure (MS 70-640).....	3

***The first course a student takes in the Microsoft Sever 2008 MCITP sequence will count as a major course; all others will be considered elective credit.*

Electives – Select 12 credits

Networking Electives

+# CET2178, Microcomputer Systems (A+ Hardware).....	3
+# CGS1103, Project Management	3
CTS1133, Desktop Operating Systems (A+ Software) .	3
CTS1347, Server Network Infrastructure (MS 70-642)	3
CTS2345, Server Active Directory Infrastructure (MS 70-640)	3
CTS2652, Advanced Router Technology	3
CET2526, Linux Operating Systems.....	3
CTS2370, Virtual Infrastructure and Configuration.....	3
CTS1156, Customer Support Fundamentals	3

Information Security Electives

# CTS2314, Network Defense and Countermeasures....	3
# CTS2315, Firewalls and Network Security	3
COP1000, Introduction to Programming Logic.....	3
+# CTS2127, Certified Information Sec. Prof. (CISSP)	3
+# CET2688, System Security Cert. Prac. (SSCP).....	3
CIS2352, Ethical Hacking I.....	3
+ CIS2381, Data Forensics I	3

TOTAL CERTIFICATE HOURS..... 24

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**COMPUTER INTEGRATED MANUFACTURING
(CIM-CT) (CIM-CT)**

AREA OF CONCENTRATION: This certificate program specializes in computer automation, robotics, and process control with emphasis on computer controlled systems for industrial manufacturing, system integration, instrumentation, simulation, and animatronics. The certificate program is designed for those professionals desiring to upgrade their skills or for those who are not degree seeking. Most of the classes are offered at night for those working days. Special times can be arranged.

COURSES	Cr. Hrs.
+ # EET1015C, AC & DC Circuits I	4
+ # CET1112C, Digital & Computer Circuits	4
+ # EST2542C, Programmable Logic Controllers	4
# CTS1134, Networking Essentials (Network +)	3
+ # EST2535C, Process Control & Instrumentation	4
+ # EST2700C, Hydraulics & Pneumatics Control	3
+ # EST2511C, Motor & Motion Control	4
+ # EST2606C, Industrial Robotics	4
+ # EST2650C, Industrial Networking	3
TOTAL CERTIFICATE HOURS	33

**COMPUTER INTEGRATED MANUFACTURING TECHNOLOGY
(CIM-AAS) (CIM1-AAS)**

AREA OF CONCENTRATION: This program specializes in computer automation, robotics, and process control with emphasis on computer controlled systems for industrial manufacturing, system integration, instrumentation, simulation and animatronics. The program provides upgrading skills and produces graduates or careers in manufacturing, theme park industries, military applications, water filtration and purification plants, and many more. Graduates are prepared to work as controls engineers, systems integrators, robotic technicians, industrial programmers, process control engineers, field service technicians, simulation technicians, industrial sales engineers, and as industrial maintenance technicians. Job opportunities are in high demand for graduates with these skills.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English Composition II	3
+* MAC1105, College Algebra I	3
+ Humanities Elective	3
PSY2012/SYG2000, Psychology/Sociology	3
.....	15

MAJOR COURSES

Computer & Electronics Classes

+ EET1015C, AC & DC Circuits I	4
+ # CET1112C, Digital and Computer Circuits	4
+ # EET1141C, Electronic Devices	4
COP2224, Introduction to C++ Programming	3
+ # EST2542C, Programmable Logic Controllers	4
+ # CTS1134, Ntwk Essentials (Network +)	3
.....	22

Computer Integrated Manufacturing Technology Classes

+ # EST2535C, Process Control/Instrumentation	4
+ # EST2700C, Electro-Hydraulics//Pneumatics	3
+ # EST2511C, Motor & Motion Control	4
+ # EST2606C, Robotics	4
+ # EST2650C, Industrial Networking	3
+ # EET2280C, Data Acquisition & Control Sys	4
# EST1603C, Projects in Robotics	3
Approved Technical Elective	2
.....	27

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 only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

Semester 1 (Fall – August)

ENC1101, English Composition I 3

MAC1105, College Algebra 3

EET1015C, AC & DC Circuits I 4

CET1112C, Digital and Computer Circuits 4

CGS1570, Microcomputer Applications 3

..... 17

Semester 2 (Spring – January)

ENC1102, English Composition II or

ENC2210, Technical Writing..... 3

EET 2141C, Electronic Devices 4

EST2542C, Programmable Logic Controllers..... 4

CTS1134, Networking Essentials (Network +)..... 3

COP2224, Introduction to C++ Programming 3

..... 17

Semester 3 (Fall – August)

Humanities Elective 3

PSY2012 or SYG2000, Psychology/Sociology 3

EST2700C, Hydraulics and Pneumatics Control 3

EST2511C, Motor and Motion Control..... 4

Approved Technical Elective 2

..... 15

Semester 4 (Spring – January)

EST2606C, Robotics..... 4

EST2535C, Process Control and Instrumentation 4

EST2650C, Industrial Networking..... 3

EET2280C, Data Acquisition & Control Sys..... 4

..... 15

TOTAL DEGREE HOURS..... 64

CRIMINAL JUSTICE TRAINING ACADEMY
**CORRECTIONAL OFFICER CERTIFICATION - VOCATIONAL
 CERTIFICATE (COROF-VC) (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 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	Cr. Hrs.
= CJD0939, C.O. Capstone	0.5v
= CJK0031C, CMS First Aid for Criminal Justice Officers	1.3v
= CJK0040C, CMS Firearms	2.7v
= CJK0051C, CMS Defensive Tactics	2.7v
= CJK0100, C.O. Interpersonal Skills I	2.0v

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

=	CJK0101, C.O. Interpersonal Skills II.....	1.5v
=	CJK0102, Correctional Facility Operations	2.0v
=	CJK0270, C.O. Legal I.....	1.5v
=	CJK0280, C.O. Physical Fitness Training	1.3v
=	CJK0285, C.O. Legal II.....	1.0v
=	CJK0286, C.O. Communications	1.5v
=	CJK0480, Emergency Preparedness in Correctional Institutions.....	1.0
TOTAL CERTIFICATE HOURS		19v

After completing the correctional officer certification training and passing the State Officer Examination certification, students may continue their education by completing the Associate of Applied Science degree in Criminal Justice Technology.

**CRIMINAL JUSTICE TRAINING ACADEMY
CRIME SCENE TECHNICIAN
COLLEGE CREDIT CERTIFICATE
(CST-CCC) (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	Cr. Hrs.
# 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 CERTIFICATE HOURS..... 28

+ Prerequisites and/or corequisites required. See course descriptions.
Applies only to A.S. degree, A.A.S. degree, and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

**CRIMINAL JUSTICE TRAINING ACADEMY
CRIME SCENE TECHNOLOGY A.A.S. DEGREE
(CST-AAS) (CST1-AAS)**

AREA OF CONCENTRATION: The purpose of this program is to prepare students for employment and advancement as practitioners of crime scene technology. Individuals who want to go on to become forensic scientists may select the math and science electives to help meet the entry requirements for other colleges and universities. Graduates would typically work with local, county and state law enforcement agencies but could also use these skills in the private investigations field. There are specific entry requirements for this program that are explained on the specific certificate pages of this catalog.

ADMISSIONS REQUIREMENTS:

Admissions requirement include the following:

- Citizen of United States.
- High School diploma or GED (transcript required).
- Not discharged from the armed forces under dishonorable conditions.
- Good moral character, not have been convicted of any felony or a misdemeanor involving false swearing or perjury.
- Submit to and pass a background investigation.

Prior to graduation, students must successfully complete MAT0024 with a "C" or higher or must qualify for college-level mathematics (MAT1033).

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II (or)	
+* ENC2210, Technical Writing.....	3
POS2041, American National Government.....	3
Biological or Physical Science.....	3
+* Humanities Elective	3
PSY2012/SYG2000, Psychology/Sociology	3

MAJOR COURSES

# Crime Scene Technology Certificate	28
* Computer Usage Elective	3

ELECTIVES (Approved by Adviser)..... 15

RECOMMENDED ELECTIVES

CCJ1010, Introduction to Criminology	3
CCJ1020, Introduction to Criminal Justice	3
CCJ1191, Human Behavior in Criminal Justice	3
CJL2100, Criminal Law.....	3
CJL2130, Evidence.....	3
# FFP1610, Fire Cause and Arson Detection	3
+* BSC1005, General Biological Science	3
+* BSC1005L, General Biological Science Lab	1
+* BSC2085, Human Anatomy and Physiology I	3
+* BSC2085L, Human Anatomy & Physiology I Lab	1

+* CHM1032, General, Organic, Biochemistry	3
CHM1032L, General, Organic, Biochemistry Lab	1
+* STA2023, Statistics	3
+* PHY1023, Survey of General Physics	3

TOTAL PROGRAM CREDIT HOURS 64

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

CRIMINAL JUSTICE TRAINING ACADEMY

CRIMINAL JUSTICE TECHNOLOGY

A.A.S. DEGREE (CJT-AAS) (CJT-AAS)

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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II or +*ENC2210, Technical Writing.....	3
POS2041, Amer. Nat. Gov	3
+* Approved mathematics (MAC, MGF, STA)	3
+* Humanities Elective	3
PSY 2012/SYG 2000 Psychology or Sociology.....	3
TOTAL GENERAL EDUCATION HOURS	18

Correctional Officer Option

CORE/ELECTIVE COURSES	Cr. Hrs.
COBS (with passing SOCE).....	12
Computer Usage Electives	3
Approved Management/Supervision Elective	9
CJ, CJB, CJC, CJD, CJE, CJJ, CJL, or other approved Electives	22
TOTAL CORE/ELECTIVE HOURS	46

Law Enforcement Option

CORE/ELECTIVE COURSES	Cr. Hrs.
LEBS (with passing SOCE).....	15
Computer Usage Elective.....	3
CCJ, CJC, CJD, CJE, CJJ, CJL or CJT Electives	28
TOTAL CORE/ELECTIVE HOURS	46

Crime Scene Technology Option

CORE/ELECTIVE COURSES	Cr. Hrs.
#Crime Scene Technology Certificate.....	28
Computer Usage Elective.....	3
*Electives (Approved by Adviser)	15
TOTAL CORE/ELECTIVE HOURS	46
TOTAL PROGRAM CREDIT HOURS	64

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 Adviser on an individual basis.

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies only to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

**CRIMINAL JUSTICE TRAINING ACADEMY
CROSSOVER CORRECTIONAL OFFICER TO LAW
ENFORCEMENT OFFICER - VOCATIONAL CERTIFICATE
(CORLE-VC) (COR1-VC)**

AREA OF CONCENTRATION: The purpose of this program is to prepare students for employment as a law enforcement officer. This program is designed to meet the needs of students who have completed correctional officer certification training, and now wish to pursue law enforcement officer certification. This program includes courses mandated for certification as a law enforcement officer of a person previously trained as a correctional officer. Students who graduate from this program typically work as municipal, county, or state law enforcement officers. (NOTE: Must be 19 years of age by date of employment).

ADMISSIONS REQUIREMENTS

Admission requirements include the following:

Be an active, certified, Correctional Officer; OR, have successfully completed Correctional Officer Basic Recruit Training and passed the State Officer Certification Examination (SOCE) within four years.

- 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 manuals.

COURSES	Cr. Hrs.
+ = CJK0020C, CMS L.E. Vehicle Operations	1.6v
+ = CJK0061, Patrol 1	1.9v
+ = CJK0062, Patrol 2	1.3v
+ = CJK0076, Crime Scene Investigations.....	0.8
+ = CJK0071, Criminal Investigations	1.9v
+ = CJK0082, Traffic Stops.....	0.8v
+ = CJK0083, DUI Traffic Stops	0.8v
+ = CJK0086, Traffic Crash Investigations.....	1.1v

** CJK0212, Correctional Cross-Over Law Enforcement High Liability.....	0.3v
+ = CJK0221 Correctional Cross-Over Law Enforcement Introduction & Legal	1.6v
+ = CJK0222 Correctional Cross-Over Law Enforcement Communications	1.9v
+ = CJK0223 Correctional Cross-Over Law Enforcement Human Issues	1.1v
+ = CJK0422, Dart-Firing Stun Gun	0.3v

TOTAL CERTIFICATE HOURS.....15.4v

** Students who have completed the Traditional Firearms Basic Recruit Training Course must complete the **Handgun Qualification Course of Fire (Nighttime)** through the Cross-Over Correctional to Law Enforcement High-Liability Course CJK0212. Students who have completed the CMS Criminal Justice Firearms Course CJK0040 **ARE NOT** required to complete the Cross-Over Correctional to Law Enforcement CMS High-Liability Course CJK0212.

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**CRIMINAL JUSTICE TRAINING ACADEMY
CROSSOVER CORRECTIONAL PROBATION OFFICER TO
LAW ENFORCEMENT OFFICER - VOCATIONAL CERTIFICATE
(CPOLE-VC) (CPO-VC)**

AREA OF CONCENTRATION: The purpose of this program is to prepare students for employment as a law enforcement officer. This program is designed to meet the needs of students who have completed correctional probation officer certification training, and now wish to pursue law enforcement officer certification. This program includes courses mandated for certification as a law enforcement officer of a person previously trained as a correctional probation officer. Students who graduate from this program typically work as municipal, county, or state law enforcement officers. (NOTE: Must be 19 years of age by date of employment).

+ =	CJK0083, DUI Traffic Stops.....	0.8v
+ =	CJK0086, Traffic Crash Investigations	1.1v
+ =	CJK0221 Correctional Cross-Over Law Enforcement Introduction & Legal	1.6v
+ =	CJK0222 Correctional Cross-Over Law Enforcement Communications	1.9v
+ =	CJK0223 Correctional Cross-Over Law Enforcement Human Issues	1.1v
+ =	CJK0422, Dart-Firing Stun Gun	0.3v
	TOTAL CERTIFICATE HOURS.....	17.8v

ADMISSIONS REQUIREMENTS

Admission requirements include the following:

- Be an active, certified, Correctional Probation Officer; OR, have successfully completed Correctional Probation Officer Basic Recruit Training and passed the State Officer Certification Examination (SOCE) within four years.
- 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 manuals.

COURSES	Cr. Hrs.
+ = CJK0020C, CMS L.E. Vehicle Operations	1.6v
+ = CJK0040C, CMS Criminal Justice Firearms.....	2.7v
+ = CJK0061, Patrol 1	1.9v
+ = CJK0062, Patrol 2	1.3v
+ = CJK0076, Crime Scene Investigations.....	0.8v
+ = CJK0071, Criminal Investigations	1.9v
+ = CJK0082, Traffic Stops.....	0.8v

+ Prerequisites and/or corequisites required. See course descriptions.
Applies only to A.S. degree, A.A.S. degree, and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

CRIMINAL JUSTICE TRAINING ACADEMY
LAW ENFORCEMENT AUXILIARY
OFFICER CERTIFICATE – VOCATIONAL CERTIFICATE
(LEAUX-VC) (LEAU-VC)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for volunteer work as auxiliary law enforcement officers. The program includes courses mandated for certification as an auxiliary law enforcement officer. Students who graduate from this program would typically work as auxiliary officers with municipal, county, or state law enforcement agencies. A certificate in "Prerequisite Auxiliary Law Enforcement Officer" will be awarded upon the completion of the COMMON COURSE PREREQUISITES. Students wishing to become auxiliary law enforcement officers then have the option of completing training at the Academy or with the law enforcement agency of their choice. (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, within 4 years of course start date.

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	Cr. Hrs.
= CJK0240, L.E. Auxiliary Introduction	1.0v
[‡] = CJK0241, L.E. Auxiliary Patrol and Traffic.....	0.6v
[‡] = CJK0242, L.E. Auxiliary Investigation.....	0.5v
¹ = CJK0031C, CMS First Aid for Criminal Justice Officers	1.3v
¹ = CJK0421, Dart-Firing Stun Gun.....	0.2v

ELECTIVES

¹ = CJK0020C, LE CMS Vehicle Operations.....	1.6v
¹ = CJK0040C, CMS Criminal Justice Firearms.....	2.7v
¹ = CJK0051C, CMS Criminal Justice Defensive Tactics.....	2.7v

TOTAL CERTIFICATE HOURS 10.6v

¹May be used toward part of the Law Enforcement Academy or Correctional Officer Academy.

Completion of the COMMON COURSE PREREQUISITES constitutes a certificate in "Prerequisite Auxiliary Law Enforcement Officer." Completion of COMMON COURSE PREREQUISITES plus electives constitutes a certificate in "Auxiliary Law Enforcement Officer."

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

Applies to A.S. degree, A.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) (LEVC-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	Cr. Hrs.
+= CJK 0007, Intro to Law Enforcement.....	0.4v
+= CJK0008, Legal	2.3v
+= CJK0011, Human Issues	1.3v
+= CJK0017, Communications.....	2.5v
+= 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
+= CJK0061, Patrol 1	1.9v
+= CJK0062, Patrol 2	1.3v
+= CJK0076, Crime Scene Investigations	0.8v
+= CJK0071, Criminal Investigations	1.9v
+= CJK0082, Traffic Stops.....	0.8v
+= CJK0083, DUI Traffic Stops.....	0.8v
+= CJK0086, Traffic Crash Investigations.....	1.1v
+= CJK0096, Crim. Just. Off. Physical Fitness	2.0v
+= CJK0422, Dart-Firing Stun Gun.....	0.3v

TOTAL CERTIFICATE HOURS 25.7v

**CULINARY MANAGEMENT
(CHEF-AAS) (CHEF-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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+ BSC1005, General Biological Science.....	3
PSY2012 or SYG2000, Psychology/Sociology.....	3
+ Humanities	6

MAJOR COURSES

# FOS2201, Food Service San. and Safety.....	2
# FSS1202C, Basic Food Preparation	3
# FSS1063C, Food Specialties -Baking	3
# FSS1002, Introduction to Hospitality OR GEB1011 , Introduction to Business OR Culinary Elective	3
+# HFT2840C, Dining Room Operations	3
+# FSS2224L, Advanced Food Preparation	3
# FSS1105, Food Purchasing.....	2
+# 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	2
# HFT1860, Beverage Mgmt	3
+# QMB1001, College Bus. Math.....	3
# FSS2243C, Meat Fabrication.....	3

TOTAL DEGREE HOURS 64

+ Prerequisites and/or corequisites required. See course descriptions.
Applies only to A.S. degree, A.A.S. degree, and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

**DATABASE DEVELOPMENT SPECIALIST CERTIFICATE
(DDS-CCC) (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	Cr. Hrs.
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

**DENTAL ASSISTING CERTIFICATE
(DENTA-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 and course requirements.

ADMISSIONS:

The Dental Assisting 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 **July 15**.

Provisional Admission Requirements:

- A. Application to Gulf Coast State College.
- B. Official high school transcript or GED sent to Enrollment Services for evaluation.
- C. Official college transcripts (from each college or university attended) sent to Enrollment Services for evaluation.
- D. Current TABE or CPT/PERT scores. (Successful completion required for graduation.)
- E. Application to Dental Assisting program, which includes:
 1. Dental Assisting application.
 2. Technical Standards form.
 3. Testing Requirements form.

Requirements after Provisional Acceptance

- A. Report of Vaccination History to include:
 - Hepatitis B vaccine series or signed declination waiver.
 - Annual TB Test according to program requirements. (May require chest radiograph if history of positive results.)

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

- MMR.
- Tetanus (every 10 years).
- B. Copy of current Cardiopulmonary Resuscitation (CPR) certificate (BLS for Healthcare Providers).
- C. Satisfactory fingerprint/criminal background check.

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) 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.
- 3) Readmission to the Dental Assisting 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 (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.
- 5) Readmission may be contingent upon the candidate's agreeing to audit previously completed course work.

Transfer Policy

Applicants who are currently enrolled in another Dental Hygiene/Dental Assisting Program and wish to investigate transferring 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, and 3) notify the Assistant Coordinator in writing, stating anticipated entry date and reason for transfer, and 4) provide evidence of successful completion of previous core dental courses from an American Dental Association accredited program. 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.

MAJOR COURSES

Cr. Hrs.

+#=*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 only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

DENTAL HYGIENE (DENTH-AS) (DHAS-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.

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 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 March 15.

Provisional Admission Requirements:

- A. Application to Gulf Coast State College.
- B. Official High School transcript or GED sent to Enrollment Services for evaluation.
- C. Official College transcripts (from each college or university attended) sent to Enrollment Services for evaluation.
- D. Demonstration of Math/Algebra, English and Reading Competency via current (within 2 years) CPT/PERT scores or ACT/SAT equivalent.
- E. 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
4. HUN1201, Nutrition

- B. Report of Vaccination History to include:
 - Hepatitis B vaccine series or signed declination waiver
 - Annual TB test according to program requirements: (May require chest radiograph if history of positive results)
 - MMR
 - 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.

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 15 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 are currently enrolled in another Dental Hygiene/Dental Assisting Program to a GCSC Dental Program and wish to investigate transferring must 1) meet all current admission requirements, 2) apply at least two months prior to the expected date of enrollment, and 3) notify the Assistant Coordinator in writing, stating anticipated entry date and reason for transfer, and 4) provide evidence of successful completion of previous core dental courses from an American Dental Association accredited program. Acceptance of any transfer student will be dependent upon available resources.

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* Approved College Math (MAC, MGF, STA).....	3
+* Humanities Elective	3
* SYG2000, Principles of Sociology	3
* PSY2012, General Psychology	3
+* 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
+* MCB2004, Microbiology	3
+* MCB2004L, Microbiology Lab	1

MAJOR COURSES	
* HUN1201, Principles of Nutrition	3
+* SPC1608, Intro. 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

**DIGITAL MEDIA/MULTIMEDIA PRODUCTION
COLLEGE CREDIT CERTIFICATE
(DIG-CCC) (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 Cr. Hrs.

<u>Graphic Design Technology</u>	
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

<u>Animation Gaming and Simulation</u>	
# 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

<u>Digital Video Production</u>	
# DIG2205, Basic Video Editing.....	3
# DIG2251, Digital Audio I OR aDIG2200, Basic Video ...	3
# DIG2252, Digital Audio II OR DIG2030, Digital Video Production	3
+# DIG2410, Basic Scripting for Video	3

<u>Web Design</u>	
# DIG2100, Web Design I.....	3
+# DIG2101, Web Design II.....	3

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.

TOTAL CERTIFICATE HOURS..... 15

+ Prerequisites and/or corequisites required. See course descriptions.
Applies only to A.S. degree, A.A.S. degree, and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

**DIGITAL MEDIA/MULTIMEDIA
TECHNOLOGY
(DIG-AS) (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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English	3
+* Approved mathematics (MAC, MGF, STA)	3
+* Approved natural science	3
+* Approved social science	3
ARH2000, Understanding Visual Art or MUL2010, Understanding Music	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 Dig Illustrat	3
ART1201C, Design I	3
+ ART1203C, Design II	3
PGY2801C, Digital Photography I	3
+ PGY2802C, Digital Photography II	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

Digital Audio/Video Production

DIG2000, Introduction to Digital Media	3
# DIG2252, Digital Audio II	3
+ DIG2257, Production Sound Recording	3
# DIG2205, Basic Video Editing	3
DIG2030, Digital Video Production	3
+# DIG2410, Basic Scripting for Video	3

Mobile Application Programming

+ COP2651, Programming Wireless Applications	3
+ COP2657, Intro to SmartPhone Programming	3
COP2700, Data Structures (SQL)	3

Web Design

COP2840, Internet Programming	3
COP2842, Dev Websites using PHP w/MySQL	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.

Semester 1 (Fall – August)

CGS1570, Microcomputer Applications	3
DIG2100, Web Design I	3
GRA2156, Computer Graphics for Digital Design I	3
ARH2000, Understanding Visual Arts or MUL2010, Understanding Music	3
ENC1101, English I	3
.....	15

Semester 2 (Spring – January)

DIG2200, Basic Video	3
GRA2157, Computer Graphics for Digital Design II	3
College Level Math	3
MMC2100, Writing for Mass Communications	3
DIG2101, Web Design II	3
.....	15

Semester 3 (Fall – August)

DIG2302, 3D Modeling	3
DIG2251, Digital Audio I	3
CGS2069, Internet Marketing	3
DIG2300, 2D Animation	3
Digital Media Elective	3
.....	15

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

Semester 4 (Spring – January)

DIG2580, Digital Media Portfolio	4
DIG2949, Digital Media COOP	3
Digital Media Elective	3
Digital Media Elective	3
.....	13

Summer A or B

EUH1000/EUH1001 Western Civilization I/II	3
PSY2012 or SGY2000, Psychology or Sociology.....	3

Total Degree Hours 64

**DRAFTING AND DESIGN TECHNOLOGY
(DRAFT-AS) (DRFT-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.

GENERAL EDUCATION COURSES

Cr. Hrs.

+* ENC1101, English I	3
+* ENC1102, English Composition II.....	3
+* MAC1105, College Algebra	3
MAC1114, Plane Trigonometry	3
+ Humanities	3
PSY2012 or SYG2000, Psychology/Sociology.....	3

MAJOR COURSES

EGS1110C, Engineering Drawing	3
+ BCN2405, Statics and Strength of Materials.....	3
+ ETD1320, Auto CAD	3
ARC2303, Design 2.2	4
ARC2304, Design 2.1	4
ETD2949, Drafting COOP	3

Industrial Option

# ETD2357, Auto Desk Inventor	3
+ ETD2350, Advanced AutoCAD	3
+# ETD2461, Mech. Systems Drafting	1
+# ETD2461L, Mech. Systems Drafting Lab	3
+# ETD2465, Jig and Fixture Design.....	1
+# ETD2465L, Jig and Fixture Design Lab.....	3
+# ETD2730, Industrial Drafting	1
+# ETD2730L, Industrial Drafting Lab	3
# ETI1411, Manufacturing Proc. I	3
# ETI1420, Manufacturing Proc. II	3

Architectural Option

+ 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
+ ETD2350, Advanced AutoCAD	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 only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

EARLY CHILDHOOD EDUCATION (CHLD-AAS) (CHD1-AAS)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for careers as early education and care teachers, pre-kindergarten teachers, directors of child development programs, and as elementary school support teachers. The program is designed to teach the principles of child growth and development through a variety of classroom and laboratory experiences. Emphasis is given to observing and interpreting child behavior, as well as developing techniques for working with children. Students gain practical experience in planning and developing appropriate strategies to support the whole child’s development through educational and practical experiences with early education and care programs.

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 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.

Prior to graduation, students must successfully complete MAT0024 with a “C” or higher or must qualify for college-level mathematics (MAT1033).

+# CHD1110, Infant Growth and Development.....	3
+# CHD1339, Movement Activities	2
CLP1001, Human Relations.....	3
SYG2430, Marriage and Family Living	3
ELECTIVES	2
TOTAL DEGREE HOURS	63

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
PSY2012, Psychology.....	3
+ Humanities I or II.....	3
Natural Science (Biological/Physical)	3
EUH1000/EUH1001 Western Civilization I/II	3

MAJOR COURSES	
# CHD2220, Child Development	3
+# CHD1430, Observing and Rec. Child Behavior	3
+# CHD1432, Learning Activities Yng. Children.....	4
+# CHD1320 Curriculum and Guidance for Yng. Cldrn.....	3
+# CHD1440, Early Childhood Teaching Prac.....	3
+# CHD2450, Teacher Aide Practicum I	3
+# CHD2710C, Children with Exceptionalities	3
CHD2949, Cooperative Education.....	3
+# CHD2810C, Nutrition, Health, and Safety for Young Children	4
+# CHD2803, Early Care and Education Administrative Overview.....	3
+# CHD1382, Activities for School-Age Children.....	3

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

**ELECTRICAL APPRENTICESHIP
(APREL-VC) (APRL-VC)**

AREA OF CONCENTRATION: The purpose of this program is to prepare individuals to become journeymen electricians.

COURSES	Cr. Hrs.
= 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	3 v
= BCA0362, Electrical Internship 4	21v
= BCA0363, Electrical Apprenticeship 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 VOCATIONAL HOURS	330 v

**ELECTRONICS ENGINEERING TECHNOLOGY
(ELEC-AS) (ELEC-AS)**

AREA OF CONCENTRATION: This program prepares graduates as technicians for electronics and computer engineering careers by providing a combination of electronic circuits, computer hardware, and software. Technicians design, build, program, test, calibrate, and maintain electronic systems. Programming languages include BASIC, C++, and LabVIEW. Students gain experience through hands on lab assignments and prototyping of both digital and analog circuits involving digital control, microprocessor applications, embedded systems, audio and video, communications, networking, and computer systems with servers and routers. Graduates have a broad based degree for a variety of jobs in the electronics and computer industries.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English Composition II	3
+* MAC1105, College Algebra	3
+* Humanities	3
PSY2012 or SYG2000, Psychology/Sociology	3
.....	15

MAJOR COURSES

+# EET1015C, AC & DC Circuits I	4
+# EET1025C, AC & DC Circuits II	4
+# EET1141C, Electronic Devices	4
+# EET2142C, Electronic Circuits	4
+# CET1112C, Digital & Computer Circuits	4
+# EET2280C, Data Acquisition and Control Systems	4
+# EST2542C, Programmable Logic Controllers	4
+# EET2355C, Digital Communications	4
+# CET2123C, Microprocessor Fundamentals	4
# CTS1134, Ntwk. Essentials (Network+)	3
COP2224, Introduction to C++ Programming	3
+# CET2178, Microcomputer Systems (A+)	3
+# CTS1651, Router Technology	3
+# CTS1346, Windows Servers	3
Approved Technical Elective	2
.....	53

TOTAL DEGREE HOURS 68

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies only to A.S. degree, A.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 Office of Admissions and Records.
- 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.
- 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.

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**EMERGENCY MEDICAL TECHNICIAN
APPLIED TECHNOLOGY DIPLOMA (EMT-ATD) (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	Cr. Hrs.
+*# EMS1119, Emergency Medical Tech.....	5
+*# EMS1335, Emergency Vehicle Operator.....	1
+*# EMS1401, Emergency Medical Tech. Lab.....	4
+*# EMS1555, Trauma Management.....	1
Total EMT Certificate Hours.....	11

PARAMEDIC CERTIFICATE (PARAM-CT) (PARAM-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	Cr. Hrs.
+*# OST1257, 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 Paramedic Certificate Hours.....	42

EMERGENCY MEDICAL SERVICES (EMS-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.

GENERAL EDUCATION COURSES	Cr. Hrs.
PSY2012, Psychology.....	3
SYG 2000, Sociology.....	3
+* ENC1101, English I.....	3
+* ENC 1102, English II.....	3
Biology Elective.....	3
+* Humanities Elective.....	3

Additional Course:

NUR1142, Introduction to Pharmacology.....	2
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MAJOR COURSES

+*# 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.....	5
or +*#EMS1310, EMS Management.....	1
and +*#EMS1761, Assistant Teaching in EMS.....	4
+*# OST1257, 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 only to A.S. degree, A.A.S. degree, and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

**ENTREPRENEURSHIP
(ENT-AS) (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.

GENERAL EDUCATION COURSES **Cr. Hrs.**

+*	ENC1101, English I	3
+*	ENC1102, English II	3
+*	Approved mathematics or approved science	3
	PSY2012 or SYG2000, Psychology/Sociology	3
	Humanities Elective	3

MAJOR COURSES

	ENT2000, Introduction to Entrepreneurship.	3
	ENT2430, Funding Acquisition and Legal Issues	3
	ENT2411, Small Business Accounting and Finance	3
	ENT2112C, Business Plans	4
	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
+	ECO2013 or 2023, Economics, Macro/Micro	3
	Cooperative Education or Electives	6

TOTAL DEGREE HOURS..... 64**ENTREPRENEURSHIP
(ENT-CCC) (ENTC-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.

MAJOR COURSES

	ENT2000, Introduction to Entrepreneurship.	3
	ENT2411, Small Business Accounting and Finance	3
	ENT2112C, Business Plans or ENT2430, Funding Acquisition and Legal Issues	4/3
+	MAR2011, Marketing	3

TOTAL CERTIFICATE HOURS..... 12

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**ENTREPRENEURSHIP OPERATIONS
(ETOP-CCC) (ENTOP-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.

MAJOR COURSES

ENT2000, Introduction to Entrepreneurship.	3
ENT2430, Funding Acquisition and Legal Issues	3
ENT2411, Small Business Accounting and Finance	3
+ MAR2011, Marketing.....	3
ENT2112C, Business Plans	4
ENT2172, Opportunity Analysis and Franchising	3
SMB2000, Small Business Management	3
CGS1570, Microcomputer Applications or MNA1100, Human Relations in Management.....	3
TOTAL CERTIFICATE HOURS	25

**FIRE SCIENCE TECHNOLOGY
(FIRE-AS) (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.

GENERAL EDUCATION COURSES

Cr. Hrs.

+* ENC1101, English I	3
+* ENC1102, English II or	
³ + ENC2210, Technical Writing	3
+* Approved mathematics (MAC, MGF, STA) or Natural Science	3
PSY2012 or SYG2000, Psychology/Sociology	3
Humanities Elective	3

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
² # FFP2521, Blueprint Read. and Plans Exam	3

Tactics Courses

# FFP1302, Fire Apparatus Operations.....	3
# FFP1301, Firestream Hydraulics	3
¹ # FFP2811, Firefighting Strat. and Tactics II.....	3

Technical Electives

Any FFP Fire Science Course	
# EMS1119, Emergency Medical Technician	5
# EMS1401, Emergency Med. Tech. Lab	4
# EMS1335, Emergency Vehicle Operator I.....	1
³ # FFP2111, Fire Chemistry	3
¹ # FFP2740, Fire Science Instructor Techniques	3
³ # FFP1741, Fire Service Course Design	3
³ # FFP2706, Public Information Officer.....	3

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

³# FFP2770, Ethical & Legal Issues of the Fire Service..... 3

³# FFP2793, Fire & Life Safety Educator I 3

FFP1140, 1st Responder 3

FFMS (with passing SCE) 3

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

FIREFIGHTING (FIRE-VC) (FIRE1-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	Cr. Hrs.
= 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 CERTIFICATE HOURS.....	3crs./14.8

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

**FLORIDA CHILD CARE PROFESSIONAL CREDENTIAL
(FCCPC-CT) (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 ten (10) 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 doing 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	Cr. Hrs.
# CHD2220, Child Development	3
+# CHD1320, Curriculum and Guidance for Young Children	3
+# CHD1440, Early Childhood Teaching Prac.	3
+# CHD2136, FCCPC Credential	1
TOTAL CREDENTIAL HOURS	10

**GREEN BUILDING CONSTRUCTION TECHNOLOGY
(GBCT-CCC) (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	Cr. Hrs.
# 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 CERTIFICATE HOURS	24

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**HOSPITALITY MANAGEMENT
(HOSP-AAS) (HOSP-AAS)**

AREA OF CONCENTRATION: The purpose of this program is to prepare students for immediate employment in an entry level hospitality industry.

GENERAL EDUCATION COURSES **Cr. Hrs.**

+*	ENC1101, English I	3
+#	BSC1005, General Biological Science	3
+	SPC1608, Intro. to Pub. Speaking	3
	PSY2012 or SYG2000, Psychology/Sociology	3
	Humanities Elective	3

MAJOR COURSES

	CGS1570, Microcomputer Applications	3
+#	QMB1001, College Business Math	3
#	HFT1000, Intro. to Hotel/Restaurant Mgmt	3
#	HFT1300, Executive Housekeeping	3
#	FOS2201, Sanitation and Safety	2
#	FSS1002, Intro. to Hospitality	3
#	HFT2840C, Dining Room Operations	3
#	HFT1410, Front Office Procedures	3
	BUL2241, Business Law	3
#	HFT1210, Hospitality Supervision	2
	HFT2949, Hospitality Coop Ed.....	3
#	HFT2313, Facilities Management.....	3
#	HFT2223, Training in the Hospitality Ind.....	3
#	ACG2001, Financial Accounting I	3
#	HFT2264C, Banquet and Convention Mgt.....	3

ELECTIVES

Elective Hours	6
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TOTAL DEGREE HOURS..... 64

**LEGAL ASSISTING/PARALEGAL
(LEGL-AS) (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.

GENERAL EDUCATION COURSES **Cr. Hrs.**

+*	ENC1101, English I	3
+*	ENC1102, English II	3
+	BSC1005, General Biological Science or +*approved College-level mathematics (MAC/MGF/STA)	3
	PSY2012 or SYG2000, Psychology/Sociology	3
	Humanities Elective	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 CCJ1020, Introduction to Criminal Justice	3
+	PLA1104, Legal Writing and Research I	3
+#	PLA2114, Legal Writing and Research II or ENC2210, Technical Writing	3
	PLA2949, Coop OR POS2041, American National Government.....	3
	CGS1570, Microcomputer Applications.....	3
	QMB1001, College Business Math.....	3

ELECTIVE 1

TOTAL DEGREE HOURS 64

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

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
- 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 or CCJ1020, Introduction to Criminal Justice
- 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.

LOGISTICS AND TRANSPORTATION SPECIALIST (LTS-CCC) (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

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 CERTIFICATE HOURS..... 18

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies only to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

**MAGNETIC RESONANCE IMAGING
(RADT-ATC) (RADT-ATC)**

AREA OF CONCENTRATION: This advanced technical certificate curriculum is offered to candidates currently certified by the American Registry of Radiologic Technologists in the fields of radiography, radiation therapy, or in nuclear medicine technology certified by Nuclear Medicine Technology Certification Board (NMTCB) and to graduate radiography students who are eligible for certification. Graduate students must pass the American Registry of Radiologic Technologists within four weeks of beginning the certificate program. The program provides didactic classroom and clinical rotations. The clinical portion of the program consists of orientation to the clinical aspects of magnetic resonance imaging, demonstration of the use of the equipment, and an opportunity to participate under close supervision in actual MRI procedures. Although the program is offered as a distance education class, clinical rotations will be scheduled during the day and evening. Following successful completion of the prescribed courses of study and clinical practice, the candidate may apply for certification in magnetic resonance imaging offered by the American Registry of Radiologic Technologists.

The MRI program is a selective admission, limited enrollment program. Admission to Gulf Coast State College does not imply acceptance into the MRI program. 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:

1. Apply for admission to Gulf Coast State College.
2. Submit program application form, including technical standards form.
3. Submit official high school transcript or copy of GED scores to Enrollment Services.
4. Submit official college transcripts and have evaluation completed by Enrollment Services.
5. Schedule visit to the Radiography Department for an advisement session with a member of the program faculty.

The program begins twice each year and has a duration of two semesters. Applications are accepted continuously until the class is filled.

After conditional acceptance:

- A. Satisfactory fingerprint / criminal background check.
- B. Copy of current certification in CPR.
- C. Completion of physical examination (with satisfactory results).

- D. Immunization records to include Hepatitis series and annual TB test according to program requirements.
- E. Copies of licensure / certification cards.

CERTIFICATE COURSES**Cr. Hrs.*****All courses must be completed with a "C" or better.***

#* RTE2575, Introduction to MRI.....	3
#* RTE2576, MRI Physics.....	3
#* RTE2577L, Clinical MRI Education I	3
#* RTE2578L, Clinical MRI Education II	3
#* RTE2760, MRI Sectional Anatomy & Pathology I	3
#* RTE2771, MRI Sectional Anatomy & Pathology II	3

TOTAL CERTIFICATE HOURS..... 18

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**MASSAGE THERAPY
(MT-ATC) (MT-ATC)**

AREA OF CONCENTRATION: The advanced technical certificate (ATC) in massage therapy is a 10-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 the national certification examination through the National Certification Board for Therapeutic Massage and Bodywork, and upon satisfactory achievement, become licensed Massage Therapists

COURSES	Cr. Hrs.
+ # 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 CERTIFICATE HOURS	12

**MEDICAL OFFICE MANAGEMENT
(MOA-CT) (MOA-CT)**

AREA OF CONCENTRATION: This program is designed to train students for entry-level employment in a medical office setting. Students who would like to continue their formal education may continue toward an Associate of Applied Science degree in Office Administration.

COURSES	Cr. Hrs.
+ OST1102, Keyboarding and Document Processing II	3
CGS1570, Microcomputer Applications.....	3
+ # OST1355, Records Management	3
+ # CTS1205, Excel	3
+ # OST2335, Business Communications.....	3
+ # HIM1475, Medical Style & Grammar.....	2
# HIM1000, Intro. Health Information Mgmt.	3
# MNA1100, Human Relations	3
# OST1257, Medical Terminology.....	2
+ # OST1611, Medical Transcription 1 or OST2601, Machine Transcription	3
+ # OST1461, Computer Medical Office Mgt.....	3
Approved Elective.....	3
TOTAL CERTIFICATE HOURS.....	34

+ Prerequisites and/or corequisites required. See course descriptions.
Applies only to A.S. degree, A.A.S. degree, and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

**MEDICAL RECORD TRANSCRIBING
APPLIED TECHNOLOGY DIPLOMA
(MMT-ATD) (MMT-ATD)**

AREA OF CONCENTRATION: This program is designed to train students for immediate employment producing professional medical documents from verbal dictation. The curriculum is aligned to the Association of healthcare Documentation Integrity (ADHI) to assist students in preparing for the Registered Medical Transcription Exam.

COURSES	Cr. Hrs.
OST1102, Keyboarding and Document Processing 2	3
+ BSC1020, Human Biology.....	3
+# HIM1475, Medical Style & Grammar	2
# HIM1000, Intro. Health Information Mgmt.	3
# OST1257, Medical Terminology	2
+# HIM2430, Concepts of Disease	3
+# HIM2442, Pharmacology & Lab Medicine.....	3
+# HIM2652, Medical Transcription Technology	2
+# OST1611, Medical Transcription 1	3
+# OST1612, Medical Transcription 2	3
+# OST1613, Medical Transcription 3	3
+# OST1614, Medical Transcription 4	2
+ HIM2949, Health Information Management Coop	1
TOTAL CERTIFICATE HOURS	33

**MUSIC PRODUCTION TECHNOLOGY
(MPT-AS) (MPT-AS)**

AREA OF CONCENTRATION: This purpose of this program is to prepare students for employment in the music and entertainment industry as technicians/specialists in music recording, audio hardware and software utilization, digital audio production, editing, and mastering. The program also provides supplemental training for personal 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. These could include broadcast media, motion picture trades and other multimedia-based areas.

	Cr. Hrs.
+* ENC1101, English I	3
PSY2012 or SYG 2000, Psychology/Sociology	3
+ MUL2110, Survey of Music Literature	3
EUH1000 or EUH1001, Western Civilization.....	3
Humanities I (MUL2010, ARH2000, THE2000, THE2071)	3
+* Approved mathematics (MAC, MGF, STA).....	3
+ MUM1620, Audio & Acoustics Fund.	3
+ MUM2600, Sound Recording I	3
+ MUM2600L, Sound Recording I Lab	4
(required 2x, repeatable 4x)	
+ MUM2601, Sound Recording II	3
+ MUM2604, Multi-Track Mixdown (Post/Prod).....	3
MUM2720, The Business of Music	3
+ MUS2550, Intro to Music Technology	3
MUT1111, Music Theory I	3
+ MUT1112, Music Theory II	3
MUT1241, Ear-Training & Sight-singing I	1
+ MUT1242, Ear-Training & Sight-singing II	1
MVK1111, Class Piano I	1
+ MV_XXX, Applied Music or Applied Prep (2 semesters)	4
+ MUM2602, Sound Recording III	3
MUN---, Performance Ensemble	1

ELECTIVES (Choose 7 hours from the following)

+ MUM2600L, Recording Lab (in addition to required hours listed above)	2
+ MUC2000, Song writing.....	3
MUM1622, Sound Reinforcement Fundamentals.....	3
+ MUT2116, Music Theory III	3
+ MUT2117, Music Theory IV	3
+ MUT2246, Ear-Training & Sight-singing III	2
+ MUT2247, Ear-Training & Sight-singing IV.....	2
MV_XXX, Applied Music or Applied Prep (in addition to required 2 credit hours above)	2

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

MUNXXXX, Performance Ensemble (in addition to required 1 credit hour above).....	1
# DIG2000, Intro to Digital Media	3
# DIG2251, Intro to Digital Audio.....	3
# DIG2205, Basic Video Editing	3
+# DIG2284, Advanced Digital Video & Sound.....	3
CGS1520, Multimedia for the Web.....	3
Other approved college credit elective.....	1
TOTAL DEGREE HOURS	64

NETWORKING SERVICES TECHNOLOGY (NET-AS) (NET2-AS)

AREA OF CONCENTRATION: Individuals pursuing an Associate of Science degree in network services technology want to begin or advance a career in computer and network security. Graduates from this program seek positions as computer systems and network security administrators, analysts, specialists, technicians and subject matter experts.

This program focuses on installation, configuration, repair, maintenance, and management of computer and network hardware and software. It includes a strong emphasis on continual learning practices, research, problem-solving, and analysis. Students learn to collaborate with peers in a team environment and focus on improving communication, planning, and customer service skills.

Courses in this program map to industry recognized certifications including, CompTIA's A+, Network+, Project+, Linux+, and Security+, CISSP and SSCP, Cisco's CCENT and CCNA, ITIL, and Microsoft MCTS and MCITP exams.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* Approved mathematics (MAC/STA)	3
+* Approved natural science	3
+* Approved social science	3
+ Humanities	3

MAJOR COURSES

+ CGS1103, Project Management (Project +).....	3
+# CTS1156, Customer Support Fundamentals (ITIL)	3
CGS1570, Microcomputer Applications.....	3
+ CET2178, Microcomputer Systems (A+ Hardware).....	3
CTS1133, Desktop Operating Systems (A+ Software)	3
CTS1134, Networking Essentials (Network +).....	3
+ CTS1120, Computer & Network Security (Security+)	3
+ CTS1651, Router Technology (CISCO-CCNA)	3
+ CTS1346, Managing and Maintaining a Microsoft Windows Server (70-646) OR +CTS1347, Server Network Infrastructure (MS 70-642) OR +CTS 2345, Windows Server 2008 Active Directory (MS 70-640).....	3
COP1000, Introduction to Programming Logic.....	3
CNT2949, Network Services COOP Education	3

ELECTIVES - select 15 credits

Microsoft Servers/Administration (MCITP)**

+ CTS1347, Server Network Infrastructure (MS 70-642)	3
+ CTS2345, Server Active Directory Infrastructure (MS 70-640)	3

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

+ CTS1346, Managing & Maintaining Microsoft Windows Server 2008 (70-646) 3

***The first course a student takes in the Microsoft Server 2008 MCITP sequence will count as a major course; all others will be considered elective credit.*

Routers/Switches (CISCO - CCNA)

+ CTS2652, Advanced Router Technology (CCNA) 3
 # CTS1939, Special Topics/Seminars..... 3

Information Security

+ CTS2315, Firewalls and Network Security..... 3
 + CTS2314, Network Defense and Countermeasures 3
 + CET2688, System Security Certified Practitioner (SSCP) 3
 + CTS2127, Certified Information Systems Security Professional (CISSP)..... 3
 + CIS2381, Data Forensics I 3
 + CIS2352, Ethical Hacking I 3

Operating Systems

+ CTS2370, Virtual Infrastructure and Configuration..... 3
 + CET2526, LINUX Operating Systems 3

TOTAL DEGREE HOURS..... 63

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.

NUCLEAR MEDICINE TECHNOLOGY (NMT-CCC) (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.

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

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	Cr. Hrs.
+* BSC2086, Anatomy and Physiology II	3
* BSC2086L, Anatomy and Physiology II Lab	1
+* CHM1032, General, Organic Chemistry	3
+* Approved Physics, contact advisor	3
(Suggested Physics: PHY1001, PHY1007, PHY1020, PHY1023, PHY2023, PHY2053)	
.....	10

MAJOR COURSES

+##* NMT1002, Intro. to Nuclear Medicine Technology....	3
+##* NMT1613, Nuclear Medicine Physics.....	4
+##* 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
+##* NMT1312, Radiation Protection and Safety	3
+##* NMT2061, Nuclear Medicine Seminar	2
+##* NMT2130, Radiopharmacy and Radiochemistry.....	3
+##* NMT2534C, Nuclear Medicine Instrumentation.....	3
+##* NMT2573C, Quality Control and Assurance	2

TOTAL CERTIFICATE HOURS 48

**NURSING, ASSOCIATE DEGREE
(RN-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 National League of Nursing and the Accrediting Commission. 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.

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* BSC2085, Anatomy and Physiology I.....	3
* BSC2085L, Anatomy & Physiology I Lab.....	1
+* BSC2086, Anatomy & Physiology II.....	3
* BSC2086L, Anatomy & Physiology II Lab.....	1
* SYG2000, Sociology.....	3
+* ENC1101, English I.....	3
* PSY2012, General Psychology.....	3
+* MCB2004, Microbiology.....	3
* MCB2004L, Microbiology Lab.....	1
+ Humanities I, II, or III Elective.....	3
MAJOR COURSES	
* HUN1201, Principles of Nutrition.....	3
* DEP2004, Developmental Psychology.....	3
+*# NUR1022C, Foundations of Nursing Practice.....	3
+*# NUR1210C, Nursing Care, Adult I.....	4
+*# NUR1212C, Nursing Care, Adult II.....	5
+*# NUR 280C, Gerontological Nursing.....	5
+*# NUR1142, Introduction to Pharmacology.....	2
+*# NUR2420C, Maternal-Infant Nursing.....	4
+*# NUR2310C, Nursing Care of the Child.....	4
+*# NUR2520C, Psychiatric-Mental Health Nurs.....	4
+*# NUR2241C, Nursing Care, Adult III.....	8
+*# NUR2945C, Practicum.....	3
TOTAL DEGREE HOURS.....	72

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

LPN-to-ADN ARTICULATION

PRIMARY ADVISER: Christine Bottkol (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:

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.

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.

Students may register anytime and exit at any time once the course objectives are completed. Course completion must be achieved within one semester. A second course is available through cooperative education for "hands on" experience in the operating room – NUR2949. This course is offered in cooperation with clinical affiliates. Upon satisfactory completion (70%; C or better) of both courses a Certificate in Perioperative Nursing will be awarded.

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

Cr. Hrs.

#*NSP2290, Periop Nursing Theory	3
#*NUR2949, Clinical Periop Nursing Co-op	3

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**OFFICE ADMINISTRATION
(OFFS-AAS) (OFFS -AAS)**

AREA OF CONCENTRATION: This program prepares individuals to assist management by expediting and facilitating the maintenance and production of correspondence and record telecommunicating; maintaining office budget; planning; preparing correspondence and resolutions; filing and maintaining documents; and assisting in the administration of policy.

GENERAL EDUCATION COURSES **Cr. Hrs.**

+*	ENC1101, English I	3
+*	ENC1102, English II	3
	Biological Science	3
	PSY2012 or SYG 2000, Psychology/Sociology	3
+	Humanities	3
	15

MAJOR COURSES

+	OST1102, Keybrdg. & Doc. Processing II	3
	(offered spring semester only)	
+#	QMB1001, College Business Math	3
	ACG2001, Financial Accounting I	3
+#	OST1355, Records Management	3
	(offered fall semester only)	
	CGS1570, Microcomputer Applications	3
+	OST1856, Word Process. w/MS Word	3
	(offered fall semester only)	
	18

Choose one of the following options:

Office Management Option

	OST1101, Keybrdg. & Doc. Processing I	3
+#	OST2335, Business Communications	3
+#	OST1061, Intro. to Office Management	3
	(offered fall semester only)	
#	MNA1100, Human Relations	3
	MAN2021, Principles of Management or	
	GEB1011, Intro to Business	3
+#	OST2811, Desktop Publishing/MS Pub	3
	(offered spring semester only)	
+#	CTS1205, Excel	3
+#	OST2601, Machine Transcription	3
	(offered fall semester only)	
+	CGS1544, Database Mgt. Using Access	3
	Elective Hours	3
	Total Hours in Option	30

Office Software Applications Option

+#	OST2335, Business Communications	3
+#	OST1061, Intro. to Office Management	3
	(offered fall semester only)	
+#	OST2811, Desktop Publishing/MS Pub	3
	(offered spring semester only)	

+#	CTS1205, Excel	3
+	CGS1544, Database Mgt. Using Access	3
+	ACG2450, Basic Computer Augmented Acct	3
#	CTS1134, Networking Essentials	3
+#	CTS1346, Managing/Maint. MS Win Server	3
+#	CGS1103, Project Management	3
#	DIG2100, Web Design I	3
	Total Hours in Option	30

Medical Office Administration Option

+#	OST2335, Business Communications	3
+#	HIM1475, Medical Style & Grammar	2
#	HIM1000, Intro. Health Information Mgmt.	3
#	MNA1100, Human Relations	3
#	OST1257, Medical Terminology	2
+#	OST1611, Medical Transcription 1 or	
	OST2601, Machine Transcription	3
+#	OST1461, Computer Medical Office Mgt.	3
+#	CTS1205, Excel	3
	Elective Hours	8
	Total Hours in Option	30

Medical Records Transcription Option

+#	HIM1475, Medical Style & Grammar	2
#	HIM1000, Intro. Health Information Mgmt.	3
+#	HIM2430, Concepts of Disease	3
+#	HIM2442, Pharmacology & Lab Medicine	3
#	OST1257, Medical Terminology	2
+#	HIM2652, Medical Transcription Technology	2
+#	OST1611, Medical Transcription 1	3
+#	OST1612, Medical Transcription 2	3
+#	OST1613, Medical Transcription 3	3
+#	OST1614, Medical Transcription 4	2
+	HIM2949, Health Information Management Coop	1
	Elective Hours	3
	Total Hours in Option	30

TOTAL DEGREE HOURS 63

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

**OFFICE MANAGEMENT TECHNICAL
CERTIFICATE (CLERK-CT) (CLRK-CT)**

AREA OF CONCENTRATION: The purpose of this program is to provide current technologies in office management. Students who graduate from this program would typically work in an entry level position. Students who would like to continue their formal education may continue toward an Associate of Science degree in Office Administration.

COURSES	Cr. Hrs.
+* ENC1101, English I	3
+ OST1102, Keybrdg. & Doc. Processing II	3
CGS1570, Microcomputer Applications.	3
+* OST2335, Business Communications	3
# OST1061, Intro. to Office Management.....	3
+# OST1355, Records Management	3
+# QMB1001, College Business Math	3
Elective Hours	3

Choose one of the following:

GEB1011, Introduction to Business	3
MAN2021, Principles of Management.....	3
MNA1100, Human Relations.....	3

TOTAL DEGREE HOURS.....27

**PHARMACY TECHNICIAN
APPLIED TECHNOLOGY DIPLOMA
(PHRM-ATD) (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, graduates will be awarded a certificate as a Pharmacy Technician and will be eligible to apply for the Pharmacy Technician Certification Board Examination.

To apply for this program of study, students should obtain a program application packet from the Division of Health Sciences or Internet webpage containing a current listing of admission and course requirements.

Admissions

Provisional Admission Requirements:

- A. Application to Gulf Coast State College.
- B. Application to Pharmacy Technician Program should be completed by the last working day in JUNE. This application process includes:
 - a. Health Sciences Division application form for Pharmacy Technician certificate program.
 - b. Florida College Entry=Level Placement Test (CPT) scores.
 - c. Official transcripts on record from high school and /or any other previous college work.
- C. High school diploma with minimum GPA of 2.0 (C) or GED completion or college transcripts.
- D. Eligibility for ENC1101.
- E. Applicants are selected for this program upon successful completion of general education requirements.

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. SATISFACTORY FINGERPRINT/CRIMINAL BACKGROUND CHECK.
- D. 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.

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

PREREQUISITE COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* MTB0375, Health Math (or higher level)	2
#* OST1257, Medical Terminology	2
+* BSC1020, Human Biology	
* (or higher level anatomy class)	3
+* BSC1020L, Human Biology Lab (or higher level)	1

CORE COURSES

+#* PTN1101, Pharmacy Technician Orientation	3
+#* PTN1121, Pharmacological Agents I	3
* CGS1570, Microcomputer Applications	3
+#* PTN1122, Pharmacological Agents II	3
+#* PTN1131, Applied Pharmacy Operations I	5
+#* PTN1131L, Applied Pharmacy Operations I Lab	2
+#* PTN1940, Pharmacy Technician Practicum I	5
+#* PTN1941, Pharmacy Technician Practicum II	5

TOTAL CERTIFICATE HOURS 40

PHYSICAL THERAPIST ASSISTANT (PTA-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. Scores from the Computerized Placement Test or the equivalent course (see application packet) must be submitted showing the following minimum scores: English, 83; Reading Comprehension, 83; Algebra (not arithmetic), 72 or achieve a grade of "C" or better in MAT 0024 or higher level math course. Completion of a higher level algebra course will also satisfy this requirement. The tests are administered by the testing center at Gulf Coast State College.
- C. Official high school transcript or GED (first-time college students only; does not apply to students transferring from other accredited colleges or universities) sent to the Office of Admission and Records. Official college transcripts (from each college or university attended) 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

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

- Admissions Committee based on an objective point system computed from the admissions criteria.
- E. One class per year will be admitted in the fall semester. Application deadline for the fall class is May 5. If the class is not filled, the application deadline may be extended.
 - F. Students not admitted for the year in which they applied must reapply if they wish to be considered for entry in a subsequent year (no waiting list).
 - G. 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* 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
* PSY2012, Psychology.....	3
+ Humanities Elective	3

MAJOR COURSES

*# OST1257, Medical Terminology	2
+*# PHT1000, Intro. to Physical Therapy.....	3
+*# PHT1102, Applied Anatomy for PTAs.....	1
+*# PHT1200, Basic Skills in Patient Care	2
+*# PHT1200L, Basic Skills in Patient Care Lab	2
+*# PHT1124, Functional Human Motion.....	3
+*# PHT1124L, Functional Human Motion Lab	2
+*# PHT1131, Assessment, Measure, Document	1
+*# PHT1131L, Assessment, Measurement and Documentation Lab	2
+*# PHT1220, Intro. to Therapeutic Exercise	2
+*# 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

PRACTICAL NURSE CERTIFICATE (PN-VC) (PN-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 Admissions and Records.
- Submit an application to the Practical Nurse program at the Gulf/Franklin Center.
- Submit official high school and any college transcripts to Office of Admissions and Records.
- 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 adviser 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

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

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	Cr. Hrs.
=+* 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
=+* MTB0372, Applied Math	1.0 v
=+* PRN0030, Introduction to Pharmacology & Medications Admin	1.5 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
=+* PRN0381C, Medical Surgical Nursing I	7.0 v
=+* PRN 0383C, Medical Surgical Nursing II	.10.0 v
=+* PRN0100C, Maternal/Newborn Nursing	4.0 v
TOTAL CERTIFICATE CREDITS	45v

**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.

**PRIVATE SECURITY OFFICER
(PSO-VC) (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	Cr. Hrs.
SCY0501, Unarmed Security Guard	1.5v
SCY0503C, Armed Security Guard	1.0v

TOTAL CERTIFICATE CREDITS2.5v

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

RADIOGRAPHY (RADT-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.

GENERAL EDUCATION COURSES **Cr. Hrs.**

All courses must be completed with a “C” or better.

+*	ENC1101, English I	3
+*	MAC1105, College Algebra or STS2023, Statistics or MGF1106, Math for Liberal Arts I	3
+	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
+	PSY2012, Psychology or	
+	SYG 2000, Principles of Sociology.....	3
+	Humanities I	3

MAJOR COURSES

+**	RTE1111, Intro to Patient Care	2
+**	RTE1418, Prin. of Radiographic Exposure I.....	3
+**	RTE1418L, Prin. Of Radiographic Exposure I Lab	1
+**	RTE1503, Radiographic Procedures/ Positioning I	3
+**	RTE1503L, Radiographic Procedures/ Positioning Lab I.....	1
+**	RTE1804, Clinical Education I.....	2
+**	RTE1000, Intro. to Diagnostic Imaging	2
+**	RTE1457, Prin. of Radiographic Exposure II.....	3
+**	RTE1513, Radiographic Procedures/ Positioning II	2
+**	RTE1513L, Radiographic Procedures/ Positioning Lab II.....	1
+**	RTE1814, Clinical Education II.....	3
+**	RTE1523, Radiographic Procedures/ Positioning III	1
+**	RTE1523L, Radiographic Procedures/ Positioning Lab III.....	1
+**	RTE1824, Clinical Education III.....	4
+**	RTE2385, Radiobiology and Radiation Protection	3
+**	RTE2834, Clinical Education IV	5
+**	RTE2563, Advanced Medical Imaging.....	3
+**	RTE2782, Radiographic Pathology.....	3
+**	RTE2844, Clinical Education V	5

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies only to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

+*# RTE2061, Radiography Seminar 2
 +*# RTE2854, Clinical Education VI..... 2

 OST1257, Medical Terminology 2
 CGS1570, Microcomputer Applications 3

TOTAL DEGREE HOURS..... 77

**REGISTERED NURSE FIRST ASSISTANT
 (RNFA -ATC)**

AREA OF CONCENTRATION: The purpose of this program is to prepare the registered nurse in the specialty of surgical first assisting. Course content promotes knowledge based critical thinking in the safe nursing practice as a Registered Nurse First Assistant. Upon completion of all core graduation requirements, Registered Nurse graduates of this program will receive an Advanced Technical Certificate as a Registered Nurse First Assistant. Certification is available for the Registered Nurses through the Competency Credentialing Institute, Inc. (CCI). Successful completion of the program will prepare graduates to apply to take the national certifying examination provided all other eligibility requirements currently established are met. This program takes approximately one year of formal, post-basic nursing study.

Program course content meets the current AORN Standards for RN First Assistant Education Programs. Emphasis is placed on the expanded functions of the RNFA during operative and other invasive procedures including preoperative client management, intraoperative performance and postoperative client management. The development of specific intraoperative skills such as using instruments and medical devices, providing surgical site exposure, handling and/or cutting tissue, providing hemostasis, and suturing is included.

To apply for this program of study, registered nurses should obtain a program application packet from the Division of Health Sciences containing a current listing of admission and course requirements.

Note: Upon approval of program director, Registered Nurses who are currently employed as a registered nurse with operating room experience who are CNOR eligible may take the registered nurse first assistant course, but must submit proof of certification as a CNOR (certified perioperative nurse in the operating room) prior to course completion. The advanced practice registered nurse. (APRN) with no operating room nursing experience must take the Perioperative Nursing Theory Course.

COURSES

#+* NSP2290, Perioperative Nursing Theory 3
 (or proof of certification as perioperative nurse (CNOR)
 #+* NSP2090, RNFA Nursing Theory 3
 #+* NSP2090L, RNFA Nursing Lab and Clinical..... 3

TOTAL CERTIFICATE HOURS..... 9

APPLICATION PROCESS:

- A. Apply for admission to Gulf Coast State College.
- B. Submit the RNFA application form.
- C. Submit official high school or GED transcripts to Enrollment Services.

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

- D. **Proof of Licensure:** Submit proof of current licensure as a registered nurse.
- E. Register and successfully complete the Courses with a grade of "C" or better.

Requirements for Starting the Clinical Rotation:

1. Satisfactory fingerprint/criminal background check.
2. Submission of completed documentation of immunization status.
3. Completion of Physical Examination with satisfactory results.
4. Drug Screen or other requirements as outlined by the clinical sites.

NOTE: Proof of background screening, immunization status, and physical examination are waived for those students currently employed or credentialed at the clinical site. Proof of employment or proof of privileges may be substituted.

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 three semesters or 12 months for completion of the advanced technical certificate.

Spring:

NSP2290, Perioperative Nursing Theory..... 3
(or proof of certification as perioperative nurse (CNOR))

Summer:

NSP2090, RNFA Nursing Theory..... 3

Fall:

NSP2090L, RNFA Nursing Lab and Clinical 3

**RESPIRATORY CARE (THERAPY)
(RT-AAS) (RT-AAS)**

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 adviser). College level placement will give preference for acceptance in to the program, but may not be required in all areas tested.
3. Complete the Health Science Application for the Respiratory Therapy Program.
4. Schedule an interview with a primary adviser 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. Completions of HIV/AIDS Course.
4. Completion of physical examination (with satisfactory results), including copy of immunization form.

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.

Preference: Applicants having completed any of the following courses with a "C" or better will have selection preference: BSC 2085, BSC 2085L, BSC 2086, BSC 2086L, and OST 1257.

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies only to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

GENERAL EDUCATION COURSES **Cr. Hrs.**

+ 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
PSY2012, Psychology or SYG2000, Sociology	3
+* ENC1101, English I	3
CHM1032, Gen, Organic, Biochemistry or approved chemistry	3
+ Humanities Elective	3

MAJOR COURSES

# OST1257, Medical Terminology	2
*# RET1004, Introduction to Science I	1
*# RET1483, Pulmonary Assessment I	2
*# RET1485, Pulmonary Physiology	2
*# RET1024C, Respiratory Care I	6
*# RET1295, Clinical Respiratory Medicine I.....	1
*# RET1005, Respiratory Microbiology.....	1
*# RET1350, Pulmonary Pharmacology I	1
*# RET1264C, Respiratory Care II	9
Specialization Topics Electives (4 courses).....	4
*# RET1930, 1931, 1932, 1933, 1934, 1935, 1936	
*# RET2878C, Respiratory Care III	5
*# RET2280C, Respiratory Care IV	7
*# RET2613, Management.....	1
*# RET2297, Pulmonary Assessment II	1
*# RET2534C, Respiratory Care V	5
*# RET2234, Critical Thinking in Resp. Care.....	1
*# RET2292, Clinical Respiratory Medicine II.....	1
*# RET2007, Pulmonary Pharmacology II	3

ELECTIVES 3

TOTAL DEGREE HOURS..... 76

**SOFTWARE AND DATABASE DEVELOPER
(SDD-AS) (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.

GENERAL EDUCATION COURSES **Cr. Hrs.**

+* ENC1101, English I	3
+* MAC 1105, College Algebra	3
EUH 1001, Western Civilization II	3
PSY2012 or SYG2000, Psychology/Sociology	3
Humanities	3

MAJOR COURSES

COP1002, Intro to Programming Logic.....	3
COP2700, Data Structure (SQL)	3
+ CIS2321, System Analysis and Design.....	3
COP2224, C++ Programming I	3
COP 2228, C++ Programming II	3
COP 2250, Java Programming I.....	3
COP 2251, Java Programming II.....	3
+ CGS 1103, IT Project Management (Project +)	3
+ CTS 1156, Customer Support Fundamentals (ITIL)	3
CGS 1570, Microcomputer Applications.....	3
CTS 1134, Network Essentials (Network +)	3
CIS 2949, Information Technology COOP Education ..	3

Select 12 credits from the following courses:

Web Applications Programming

COP 2842, PHP My SQL.....	3
DIG 2100, Web Design I.....	3
+ DIG 2101, Web Design II	3
+# COP 2840, Internet Programming	3
+# COP 2823, Advanced Web Page Publishing – Active Server Pages	3

Database Development

CTS 2441, Oracle Database Administration	3
CTS 2440, Oracle SQL and PL/SQL	3
CTS 2445, Advanced Oracle PL/SQL Programming	3

Mobile Programming

COP 2650, Programming Wireless Applications	3
COP 2657, Intro to SmartPhone Programming.....	3

TOTAL DEGREE HOURS 63

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

SONOGRAPHY, DIAGNOSTIC MEDICAL (DMST-AAS) (DMST-AAS)

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 with an associates degree in any allied health care field are given advanced placement in the program. All other students may enter by completing 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 Applied Science Degree or Certificate Track. A minimum grade of C must be achieved in all courses identified in the program curriculum, including courses required for admission. The program begins in the spring semester each year. The duration of the program is 24 months for the Associates Degree in Applied Science (72 credit hours) and the certificate track (51 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 of October 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.

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 or better in order to continue to the next term. If a student achieves less than a C or withdraws from any course that is required for the Associate in Applied 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 October 15th.

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 prior 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); RTE 1613 Radiology Physics or approved physics course, MAC1105 or higher level math course; and English 1101.

5. Schedule a visit with a sonography adviser.

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.

GENERAL EDUCATION COURSES

Cr. Hrs.

+*	ENC1101, English I	3
+*	BSC2085, Anatomy and Physiology I	3
+*	BSC2085L, Anatomy and Physiology I Lab	1
	PSY2012 or SYG 2000, Psychology/Sociology	3
+*	Humanities I, II, or III	3
+*	MAC1105 or higher math	3

CORE REQUIREMENTS:

#	RTE1613 or Approved Physics course.....	3
	HOURS	19

DIAGNOSTIC MEDICAL SONOGRAPHY (DMS-CCC) (DMS2-CCC)

COURSES

Cr. Hrs.

+##	SON1211, Medical Sonography Physics	3
+##	SON1000C, Introduction to Sonography	3
+##	SON1100C, Prin/Prot of Sono Imaging	4
+##	SON1170, Sonography Circulatory System.....	3
+##	SON2171C, Intro to Vascular Sonography.....	4
+##	SON 2175, Vascular Sonography	3
+##	SON1111, Abdominal Sonography I	3
+##	SON1112C, Abdominal Sonography II	3
+##	SON1121C, OB/GYN Sonography I	3
+##	SON1122C, OB/GYN Sonography II	3
+##	SON1052C, Sono Anatomy & Pathology.....	3
+##	SON1144, Superficial Structures.....	2
+##	SON2113, Sono Cross Sectional Anatomy	3
+##	SON1804, Clinical Education I.....	2
+##	SON1814, Clinical Education II.....	3
+##	SON1824, Clinical Education III.....	3
+##	SON 2834, Clinical Ed IV	4
+##	SON2930, Special Topics in Sonography.....	1
	TOTAL CERTIFICATE HOURS	51

	TOTAL DEGREE HOURS	72
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+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies only to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

**SURGICAL FIRST ASSISTING
APPLIED TECHNOLOGY DIPLOMA
(SFA-ATD)**

AREA OF CONCENTRATION: The purpose of this two-year, 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 an *Applied Technology Diploma (ATD) in Surgical First Assisting*. Upon accreditation, 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 Applied Science (AAS) by completing the additional General Education requirements and 6 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.....	Cr. Hrs.
+* 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
#* OST1257, Medical Terminology.....	2
+#* HSC1000, Orientation to Perioperative Services.....	3
+#* HSC1000L, Orientation to Periop Services Lab.....	1
#* HSC2520, Microbiology for Perioperative Services.....	3

MAJOR COURSES

#+* STS1302, Introduction to Surgical Technology.....	6
#+* STS1302L, Introduction to Surgical Tech. Lab.....	2
#+* STS1340, Pharmacology & Anesthesia.....	3
#+* STS1340L, Pharmacology & Anesthesia Lab.....	1
#+* STS1310, Surgical Tech & Procedures for SA.....	6
#+* STS1310L, Surgical Tech & Procedures for SA Lab.....	3
#+* STS2301C, Adv. Surgical Anatomy & Patho.....	2
#+* STS2330, Principles of Surgical Assisting.....	3
#+* STS2330L, Principles of SA Lab/Clinical.....	4
#+* STS2331, Core Surgical Procedures I.....	3
#+* STS2370, Surgical Assisting Clinical I.....	3
#+* STS2332, Specialty Surgical Procedures II.....	3
#+* STS2371, Surgical Assisting Clinical II.....	3

TOTAL ATD COLLEGE CREDIT.....59

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 the Office of Admissions and Records.
- E. Submit official transcripts from all previous colleges to the Office of Admissions and Records for evaluation.
- F. Have two reference forms mailed to the program director.
- G. Complete 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:

- 5. Satisfactory fingerprint/criminal background check.
- 6. Copy of current Certification in CPR by the American Heart Association, EMS Safety Services, or Red Cross Health Care Provider based on the International Liaison Committee on Resuscitation.
- 7. Drug Screen or other requirements as outlined by the clinical sites.
- 8. Proof of high school graduation or equivalent filed in the Office of Admissions and Records.
- 9. 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, OST1257, 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. Students who are validated as currently certified as a surgical technologist may apply for entry by May 1st of each year. The mandatory on-site Lab Week will be the third full week of June each year.
- 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.

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

GCSC Articulation: Up to 38 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). The remaining 7 core courses representing 21 college credits must be successfully completed for the Applied Technology Diploma (ATD). See the program adviser to develop an education plan that fits your experience and education needs.

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 2 years for an Applied Technology Diploma ATD. 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
BSC2085L, Anatomy and Physiology I Lab.....	1
OST1257, Medical Terminology	2

Fall I:

BSC2086, Anatomy and Physiology II.....	3
BSC2086L, Anatomy and Physiology II Lab.....	1
HSC1000, Orientation to Perioperative Services	3
HSC1000L, Orient to Periop Services Lab	1
HSC2520, Microbiology for Perioperative Services.....	3

Spring I B:

STS1302, Introduction to Surgical Technology.....	6
STS1302L, Introduction to Surgical Tech. Lab	2
STS1340, Pharmacology & Anesthesia.....	3
STS1340L, Pharmacology & Anesthesia Lab.....	1

Spring I C/Summer:

STS1310, Surgical Tech & Procedures for SA	6
STS1310L, Surg Tech & Procedures for SA Lab.....	3

Summer II:

STS2301C, Surgical Anatomy and Pathophysiology... ..	2
STS2330, Principles of Surgical Assisting.....	3
STS2330L, Principles of SA Lab/Clinical	4

Fall II A or Fall II B:

STS2331, Core Surgical Procedures I.....	3
STS2370, Surgical Assisting Clinical I	3

Fall II B or Spring IA:

STS2332, Specialty Surgical Procedures II.....	3
STS2371, Surgical Assisting Clinical II	3

**SURGICAL FIRST ASSISTING
ASSOCIATE IN APPLIED SCIENCE
(SFA-AAS) (SFA1)**

AREA OF CONCENTRATION: The purpose of this two-year, 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 graduation requirements, graduates of this program will receive an Associate in Applied Science Degree. Upon accreditation, 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 in Applied Science (AAS) by completing the additional General Education requirements and 6 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.

GENERAL EDUCATION COURSES Cr. Hrs.

Prerequisite Required:

+* 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

Other General Education Requirements for AAS:

+ ENC1101, English I	3
PSY2012 or SYG 2000, Psychology/Sociology	3
Humanities	3

Note: Biomedical Ethics Recommended

PREREQUISITE COURSES:

#* OST1257, 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, Professional Skills for the OR Team.....	1

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

Applies only to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

* 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
#+* STS370, Surgical Assisting Clinical I	3
#+* STS371, Surgical Assisting Clinical II	3

Choose one (1) of the Following Specialization Options of 6 credits to Complete the Program Requirements:

Specialty Educational Option I (6 cc)

+* EVT2060, Basics of Education for the Tech Expert.....	3
+* EDF1005, Introduction to Education.....	3
+* EDF2085, Teaching Diverse Populations	3
+* SPC1608, Introduction to Public Speaking	3

Specialty Management Option II (6 cc)

+* GEB2090, Leadership Training	3
+* CLP1001, Human Relations.....	3
+* SLS1201, Personal Development	3

Specialty Sales Representative/Inventory Option III (6 cc)

+* GEB1011, Introduction to Business	3
+* GEB1001, College Business Math.....	3
+* MAR2011, Marketing.....	3
+* CGS1570, Microcomputer Applications.....	3

TOTAL DEGREE CREDITS.....74

APPLICATION PROCESS:

- Apply for admission to Gulf Coast State College.
- Submit the Surgical First Assistant program application forms.
- Take the Placement Test as required in the Surgical First Assistant selection package.
- Submit official high school or GED transcripts to Enrollment Services.
- Submit official transcripts from all previous colleges to Enrollment Services for evaluation.**
- Have two reference forms mailed to the program director.
- Request a transcript analysis with course instructor (Certified Surgical Technologist Evaluation for External Credit).
- Submission of completed documentation of immunization status as required for clinical entry prior to enrollment in HSC1000L.
- 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:

- Satisfactory fingerprint/criminal background check.

- Copy of current Certification in CPR by the American Heart Association, EMS Safety Services, or Red Cross Health Care Provider based on the International Liaison Committee on Resuscitation..
- Drug Screen or other requirements as outlined by the clinical sites.
- Proof of high school graduation or equivalent filed in Enrollment Services.
- 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.

- Recommended Prerequisites:** Satisfactory completion with a grade of "C" or higher in BSC 2085, BSC2085L, BSC2086, BSC2086L, OST1257, HSC1000, HSC1000L, and HSC1024. Preference will be given to students who have completed the recommended prerequisites or are currently enrolled with a satisfactory grade.
- Students who are validated as currently certified as a surgical technologist (CST) may apply for entry through August 1st of each year. The on-site Lab Week will be the third full week of June and/or September each year. Send e-mail request for exact dates.
- Complete the application process satisfactorily as outlined in the selection package including requirements specified by the clinical site.
- Completion of Physical Examination with satisfactory results

GCSC Articulation: Up to 40 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). The remaining 9 core courses representing 19 college credits must be successfully completed for the college credit certificate (CCC). For those desiring an AAS, additional General Education and course credits for specialization either in education, management, or marketing/sales are required. See the program adviser to develop an education plan that fits your experience and education needs.

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.

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

Recommended Degree Plan: Please refer to the degree plan to determine what classes are typically offered each term. This represents a full time student plan with completion in 2 years for an AAS degree. If you need to do the courses part-time, you may adjust any General Education or specialty option courses. 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
BSC2085L, Anatomy and Physiology I Lab.....	1
OST1257, Medical Terminology	2
ENC1101, English I	3
PSY2012 or SYG2000, Psych/Soc.....	3

Fall I:

BSC2086, Anatomy and Physiology II.....	3
BSC2086L, Anatomy and Physiology II Lab.....	1
HSC1000, Orientation to Perioperative Services	3
HSC1000L, Orientation to Periop Services Lab	1
HSC250, Microbiology for Perioperative Services.....	2

Spring I B:

STS1302, Introduction to Surgical Technology.....	4
STS1302L, Introduction to Surgical Tech. Lab	2

Spring I C:

STS1310, Surgical Tech & Procedures	4
STS1310L, Surg. Tech & Proc. Lab/Clinical.. ..	2

Summer II A:

STS1340, Pharmacology & Anesthesia	3
STS2330, Principles of Surgical Assisting.....	3
STS2330L, Principles of SA Lab.....	1
STS2943, SA Scrub Role Clinical	3
STS2952, SA Scrub Role Portfolio.....	1
STS2365, The Art of Teamwork in Surgery.....	1

Fall II A:

STS2305, Operative Anatomy & Pathophys I.....	1
STS2331, Core Surgical Procedures I.....	3
STS2331L, Surgical Assisting Lab I	1
STS2950, Surgical Assisting Portfolio I	1
STS2370, Surgical Assisting Clinical I	3
Humanities	3

Fall II B:

STS2306, Operative Anatomy & Pathophys II	1
STS2332, Specialty Surgical Procedures II.....	3
STS2332L, Surgical Assisting Lab II	1
STS2951, Surgical Assisting Portfolio I	1
STS2365, Professional Skills for the OR Team	1
STS2371, Surgical Assisting Clinical II	3

**SURGICAL TECHNOLOGY
VOCATIONAL CERTIFICATE
(SURG-VC)**

AREA OF CONCENTRATION: The purpose of this 45 vocational credit hour (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 *Vocational Certificate in Surgical Technology*. 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 **Cr. Hrs.**
All courses must be completed with a "C" or better.

PREREQUISITE VOCATIONAL COURSES

=* STS0009, Human Body Terms, Struc & Function....	2.5v
=* STS0006, Orientation to Surgical Services	1.5v
=* STS0006L, Orient to Surgical Services Lab.....	1v
=* STS0030, Microbiology & Infection Control.....	1.5v

MAJOR VOCATIONAL COURSES

+* STS0003, Intro to Surgical Technology.....	3v
+* STS0003L, Intro to Surgical Tech. Lab	2v
+* STS0155, Surgical Tech & Procedures	3v
+* STS0155L, Surgical Tech & Procedures Lab	4.5v
+* STS0803, Pharmacology & Anesthesia	1.5v
+* STS0803L, Pharmacology & Anesthesia Lab	1v
+* STS0120, Surgical Specialties I.....	1v
+* STS0120L, Surgical Specialties I Lab.....	1v
+* STS0121, Surgical Specialties II	1v
+* STS0121L, Surgical Specialties II Lab.....	1v
+* STS0122, Surgical Specialties III	1v
+* STS0122L, Surgical Specialties III Lab.....	1v
+* STS0255L, Surgical Procedures Clinical I.....	5.5v
+* STS0256L, Surgical Procedures Clinical II	5.5v
+* STS0257L, Surgical Procedures Clinical III.....	5.5v
+* STS0920, Surgical Specialty Topics	1v

TOTAL CREDIT HOURS 45 v

APPLICATION PROCESS:

- A. Apply for admission to Gulf Coast State College.
- B. Submit the Surgical Technology program application forms.
- C. Take the Placement Test as required in the Surgical Technology selection package.
- D. Submit official high school or GED transcripts to the Office of Admissions and Records.

+ Prerequisites and/or corequisites required. See course descriptions.
Applies only to A.S. degree, A.A.S. degree, and certificate programs.
= PSAV course.
* Minimum grade of "C" required.

- E. Submit official transcripts from all previous colleges to the Office of Admissions and Records 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.
- H. Submission of completed documentation of immunization status as required for clinical entry prior to enrollment in STS0006L.
- 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 technology program. Acceptance into the program is based on overall performance.

Requirements Upon Entering the Prerequisite Class STS0006L:

1. Satisfactory fingerprint/criminal background check.
2. Copy of current Certification in CPR by the American Heart Association, EMS Safety Services, 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 the Office of Admissions and Records.
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 STS0009 Human Body Terms, Structure and Function (or other approved Anatomy and Physiology and/or Medical Terminology course such as STS1300, Surgical Anatomy and Physiology [includes Medical terminology] or HSC1020, Human Biology/EMS2010 with OST1257, Medical Terminology), STS0006/STS0006L Orientation, and STS0030, Microbiology and Infection Control. 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 38 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) toward an ATD or AAS degree in surgical assisting. See the program advisor to develop an education plan that fits your experience and education needs.

The Accelerated Alternate Delivery Program in Surgical Technology was developed to assist non-certified currently practicing surgical technologists to obtain the educational background they need to be eligible to sit for the national certification exam.

Surgical technologists interested in this program must fit into one of two groups:

1. On the job trained surgical technologists who completed training before March 1, 2000 or
2. Formally trained surgical technologists who completed their education from a non-Commission on Accreditation of the Allied Health Education Programs (CAAHEP) accredited program in surgical technology or in the military.

The Accelerated Alternate Delivery Program in Surgical Technology is a 45 vocational credit program. Up to 28 of those credits in lab skills and clinical experience may be granted by documented work experience in the field. The remaining seventeen (17) vocational credits representing 10 courses must be successfully completed. Note: Twenty-five per cent (25%) of the course which is a minimum of 11.25 credits must be taken at Gulf Coast State College.

Of those courses, 4 courses can be challenged by examination: STS0006 Orientation; STS0003 Introduction; STS0155 Surgical Techniques; and STS0920 Surgical Specialty Topics. To challenge, you register for the course and complete the pre-assessment examination for that course. The Pre-assessment examination for each course must be completed with a 70% score or C to successfully challenge the course. In the event, you score less than 70%; you must successfully complete all of the course assignments, examinations, and final examination (not the same examination).

Graduation and Retention Requirements: For the Surgical Technology Program, students must earn a grade of "C" or higher in each course. See surgical technology 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 16 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 surgical first assisting AAS option for those who plan to pursue an AAS degree.

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

Fall I:
 STS0009, Human Body Terms, Struc & Func..... 2.5v
 STS0006, Orientation to Surgical Services 1.5v
 STS0006L, Orient to Surgical Services Lab 1v
 STS0030, Microbiology & Infection Control..... 1.5v

Spring I B:
 STS0003, Introduction to Surgical Technology..... 3v
 STS0003L, Introduction to Surgical Tech. Lab 2v
 STS0803, Pharmacology & Anesthesia..... 1.5v
 STS0803L, Pharmacology & Anesthesia Lab..... 1v

Spring I C/Summer:
 STS0155, Surgical Techniques & Procedures 3v
 STS0155L, Surgical Tech. & Proc. Lab/Clinical... .5.5v

Summer II:
 STS0120, Surgical Specialties I 1v
 STS0120L, Surgical Specialties I Lab 1v
 STS0255L, Surgical Procedures Clinical I 5.5v

Fall II B:
 STS0121, Surgical Specialties II 1v
 STS0121L, Surgical Specialties II Lab 1v
 STS0256L, Surgical Procedures Clinical II 5.5v

Fall II C:
 STS0920, Surgical Specialty Topics..... 1v
 STS0122, Surgical Specialties III 1v
 STS0122L, Surgical Specialties III Lab 1v
 STS0257L, Surgical Procedures Clinical III 5.5v

**SUSTAINABLE DESIGN
 (SUST-CCC) (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	Cr. Hrs.
# 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 CERTIFICATE HOURS..... 19

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies only to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

**WEB DESIGN AND PRODUCTION
(WDP-CCC) (WDP)**

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	Cr. Hrs.
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 CERTIFICATE HOURS	15

EDUCATOR PREPARATION INSTITUTE (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 <http://teach.gulfcoast.edu> 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	Cr. Hrs.
# 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

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

Applies to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

#+	EPI0940, The Teaching Profession/Field Exp	1
#	EPI0030, Diversity in the Classroom	2
#+	EPI0945, Diversity in the Classroom/Field Exp.....	1
TOTAL CERTIFICATE HOURS		21

For additional information and program availability dates, visit <http://teach.gulfcoast.edu>.

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.

+ Prerequisites and/or corequisites required. See course descriptions.
 # Applies only to A.S. degree, A.A.S. degree, and certificate programs.
 = PSAV course.
 * Minimum grade of "C" required.

CENTER FOR BUSINESS, CONTINUING AND COMMUNITY EDUCATION PROGRAMS

MISSION: Recognizing that learning is a perpetual process, Center for Business, Continuing and Community Education 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, Center for Business, Continuing and Community Education programs 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.

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 to A.S. degree, A.A.S. degree, and certificate programs.

= PSAV course.

* Minimum grade of "C" required.

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.

\$12.00 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.

#TAX1000, Principles of Taxation I
3 hrs., 3 crs.

\$12.00 lab fee

A survey of federal income taxation with primary emphasis on the taxation of individuals.

#TAX1010, Principles of Taxation II

3 hrs., 3 crs.

\$12.00 lab fee

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.

ALTERNATIVE ENERGY ENGINEERING TECHNOLOGY**#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.

#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;

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.

ANTHROPOLOGY

ANT2000, Introduction to Anthropology

3 hrs., 3 crs.

This course is an introduction to the field of anthropology. Focusing on archaeology, the multimedia approach to the

subject addresses the study of culture and cultural variation in both the ancient and modern world.

ART

+ARH2000, Understanding Visual Arts

3 hrs., 3 crs.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." (Meets Area I 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.

+ARH2050, Art History Criticism I

3 hrs., 3 crs.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." (Meets Area I Humanities requirement.)

From Prehistoric to Renaissance.

+ARH2051, Art History Criticism II

3 hrs., 3 crs.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." (Meets Area I Humanities requirement.)

From Renaissance to Twentieth Century.

+ARH2060, History of Architecture

3 hrs., 3 crs.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." (Meets Area I 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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

forces, and from inside, as a problem of the evolution of the construction materials, technology and science.

ART1100C, Crafts Design I

6 hrs., 3 crs.

\$70.00 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.

\$70.00 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.

\$70.00 lab fee

Prerequisite or Corequisite: ARH2000.

A beginning study of the elements of design as found in two dimensional composition. The first six weeks are devoted to color theory and related exercises.

+ART1203C, Design II

6 hrs., 3 crs.

\$70.00 lab fee

Prerequisite or Corequisite: ARH2000. Prerequisite: ART1201C or consent of instructor.

A beginning study of the elements of design as found in three dimensional composition.

ART1300C, Drawing I

6 hrs., 3 crs.

\$40.00 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.

\$40.00 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.

\$73.00 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.

\$50.00 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.

\$50.00 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.

\$75.00 lab fee

Basic concepts of ceramic design. Experience in process of forming, decorating, glazing, and firing pottery.

+ART1751C, Ceramics II

6 hrs., 3 crs.

\$75.00 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.

ART2600, Computer Imaging I

3 hrs., 3 crs.

\$15.00 lab fee

Explores the creative uses involved in and issues surrounding computer-generated imagery. (Computer Literacy and Windows recommended.)

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+ART2601, Computer Imaging II**3 hrs., 3 crs.****\$15.00 lab fee**

Prerequisite: ART2600.

Builds on the skills learned in ART 2600. The student will use the computer and its applications as a creative tool in the process of making art. Students will explore advanced issues and uses involved in computer generated imagery. This course will be a combination of hands-on, practical computer experience using the IBM compatible computer and various software programs, and a theoretical examination of the issues affecting computer imagery.

+ART2771C, Applied Ceramics**6 hrs., 3 crs.****\$75.00 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.

BANKING/FINANCIAL SERVICES**#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.

#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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

#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.

#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.

BIOLOGY**+BOT2800, Plants and Society**
3 hrs., 3 crs.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C."

Introductory course investigating basic botany principles with a strong emphasis on the economics aspects and social impact of plants. Emphasis on scientific terminology, plant identification, food production, and medicinal plants.

+BSC1005, General Biological Science
3 hrs., 3 crs.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." 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

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C."

Corequisite: BSC1005 is recommended.

A basic general education laboratory course designed to give the student an understanding of the cellular basis of

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." 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.

\$43.00 lab fee

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." 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 and satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." 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.

\$43.00 lab fee

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." 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.

+BSC2011, Biology for Science Majors II

3 hrs., 3 crs.

Prerequisites: BSC2010. Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." 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.

\$35.00 lab fee

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." 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.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C."

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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+BSC2085L, Human Anatomy and Physiology I Laboratory
2 hrs., 1 cr.**\$43.00 lab fee**

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." 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.

Prerequisites: Completion of BSC2085 with a "C" or better. Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." 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.****\$35.00 lab fee**

Prerequisites: Completion of BSC2085L with a "C" or better. Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." 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.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." 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.

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.)

+MCB2004, Microbiology**3 hrs., 3 crs.**

Prerequisites: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C," and 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.****\$43.00 lab fee**

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 or REA1930 with a minimum grade of "C." 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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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, EGS1110C, 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, EGS1110C, 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 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, EGS1110C, 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, EGS1110C, 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, EGS1110C, 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.

+ #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.

+ #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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

**+#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.

**#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.

**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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

**=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.

**+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

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 involvement 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.

+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.

BUSINESS ADMINISTRATION

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 adviser 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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.

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.

#GEB1136, Foundations in e-Business

3 hrs., 3 crs.

\$12.00 lab fee

This course is designed to introduce students to the multi-faceted aspects of electronic business operations. This course provides a framework for students to use in the analysis and formulation of electronic business solutions. Electronic business is an area that impacts many different disciplines of study, such as accounting, business law, information systems, marketing, and management.

GEB2090, Leadership Training

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.

#GEB2138, E-Business Law and Ethics

3 hrs., 3 crs.

This course focuses on legal and ethical issues involved in forming and operating web-based companies.

+#GEB2139, E-Business Management

3 hrs., 3 crs.

Prerequisite: GEB1136.

This course includes the applications, principles, and concepts of business transactions that take place via electronic communication networks. Specific emphasis will be placed on the process of buying and selling goods and services, and the information over computer networks.

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.)

HFT1011, Culinary and Travel Elements for Business

3 hrs., 3 crs.

Introduction to travel, world cuisines and beverages, business etiquette, and dining etiquette.

+#QMB1001, College Business Mathematics

3 hrs., 3 crs.

Prerequisite: Math placement test or minimum grade of "C" in MAT0028.

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.

CENTRAL SERVICE TECHNOLOGY

+*HSC0431, Central Service Technology

90 hrs., 3 vocational crs.

Corequisite: HSC0431L.

This course designed to prepare students for employment or supervisory positions in (but not limited to) surgical central sterile services, central supply, stocking clerks, stock rooms, order fillers, warehouse, and sterilization, disinfection, and decontamination areas.

+*HSC0431L, Central Service Technology Lab/Clinical

45 hrs., 1.5 vocational crs.

\$45.00 lab fee

Corequisite: HSC0431.

Lab and clinical skills to accompany HSC0431, Central Service Technology.

+*HSC0811L, Central Service Technology Clinical

155 hrs., 5 vocational crs.

Prerequisite: STS0006, STS0006L. Corequisite: HSC0431, HSC0431L.

This course is designed to prepare students for employment in the related areas of central service technology as students work with preceptors to gain skills and competencies as necessary for employment as central service technicians, supervisors, central supply workers, stock clerks in the stock room or warehouse, and processing technicians for hospital areas requiring expertise in sterilization, disinfection, or decontamination skills.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

=*HSC0930, Central Service Specialty Topics
15 hrs., 0.5 vocational crs.

This course is designed to prepare students to sit for the national certification examination as a central service technician.

+##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 perioperative 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. 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.

+HSC1434, Central Processing Technology
90 hrs., 6 crs.

Prerequisite: HSC1000.

Corequisite: HSC1434L.

Prepares students for employment 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

510 hrs., 6 crs.

\$45.00 lab fee

Prerequisite: HSC1000L.

Corequisite: HSC1434.

Course will to prepare students for employment in the related areas of central service technology as students work with preceptors to gain the skills and competencies necessary for employment as central service technicians, supervisors, central supply workers, stock clerks in the stock room or warehouse, and processing technicians for hospital areas requiring expertise in sterilization, disinfection, or decontamination skills. The course will provide 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 will include general cleaning, decontamination and disinfection, wrapping and packaging, linen folding, testing and selection of instrumentation and supplies, instrument tray and procedure tray assembly, sterilization techniques, clean and sterile storage, preparation of case carts, processing documentation, and distribution.

+##HSC2520, Microbiology for Perioperative Services
45 hrs., 3 crs.

This course covers the types, characteristics, and activities of microorganisms. Topics include the and application of microscopes along with comparisons of the various microbial groups emphasizing opportunistic and pathogenic forms. Interpretation of stains and cultures, cellular structure, 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 the infectious process, surgical site infections, and how the human body's natural defenses act to protect us against pathogenic microorganisms. Various significant aspects of common infectious disease, the immune response, principles of wound healing, and how chemotherapeutic agents assist in this task are discussed.

#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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

#*STS1925, Endoscopy Basics**45 hrs., 3 crs.**

Upon completion of the course, the student will have a basic understanding of the care and handling of the endoscopic equipment including storage, testing, decontamination, disinfection, and preparation for use. Modules include anatomy and physiology review relevant to endoscopy procedures, essential communication, roles and responsibilities of the endoscopy team, equipment, risk management, safety, reprocessing/infection control, and emergency preparedness.

#*STS1925L, Endoscopy Basics Lab**30 hrs., 1 cr.****\$35.00 lab fee**

Course provides experience in a controlled setting regarding the care, handling, and use of endoscopy equipment.

#*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 constructive 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.

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.****\$35.00 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.)

CHM1040L, Fundamentals of Chemistry Laboratory**2 hrs., 1 cr.****\$35.00 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; College-level reading placement; 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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+CHM1045L, General Chemistry Laboratory**3 hrs., 1 cr.****\$38.00 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.****\$30.00 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.****\$58.00 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.

+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.****\$50.00 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.

**COMPUTER INTEGRATED MANUFACTURING,
ELECTRONICS, AND
NETWORK SERVICES TECHNOLOGY**

+CET1112C, Digital & Computer Circuits**6 hrs., 4 crs.****\$47.00 lab fee**

Prerequisite or Corequisite: EET1015C.

Integrated lecture and laboratory experiences in the study of digital integrated circuits, number systems, and Boolean algebra. Included is the study of gates, counters, adders, registers, multivibrators, and arithmetic logic units. The Parallax STAMP controller with Parallax BASIC will be used for microprocessor and computer fundamentals and digital control lab assignments.

+CET2123C, Microprocessor Fundamentals**6 hrs., 4 crs.****\$10.00 lab fee**

Prerequisite: CET1112C.

Study of microprocessor architecture used for embedded systems. Software applications will be developed in C+ and LabVIEW for embedded systems with some assembly language. The ARM processor and NI Compact RIO hardware will be used for developing real world applications.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+CET2178, Microcomputer Systems (A+ Hardware)
3 hrs., 3 crs.**\$47.00 lab fee**

This course provides students with hands-on experience in specifying, assembling, testing, and using a microcomputer to send, receive, and control data. Material includes architecture, input-output interfacing, DMA, interrupts, memory management, assembly language and basic programming, and local area networking. This course includes skills and knowledge tested by the CompTIA A+ certification team.

CET2526, LINUX**3 hrs., 3 crs.**

This course provides instruction on the use of UNIX and LINUX on all types of computer systems, including PCS, workstations, servers, and mainframe computers. The student will learn to use command-line features, run utilities, create your own applications and use the GNOME and KDE desktops providing a comprehensive foundation in UNIX and LINUX (Fedora, Red Hat Enterprise LINUX, SUSE and Knoppix) system and programming concepts. In addition, this course provides students with information necessary to pass the CompTIA LINUX+ certification.

+CET2688, System Security Certified Professional (SSCP)
3 hrs., 3 crs.

Prerequisite: CTS1120.

This course introduces security concepts and terminology, including access controls, administration, audit and monitoring, risk, response, and recovery, cryptography, data communications, and malicious code. With a focus on the SSCP Common Body of Knowledge (CBK), this course provides up-to-date coverage of the concepts needed to master the key areas of system security and maps to the (ISC)2 SSCP certification exam.

+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.

#COP2220, C Programming Language**3 hrs., 3 crs.****\$8.00 lab fee**

An introduction to the C programming language, including input/output, pointers, functions, arrays, and file operations. (Students should be familiar with program development.)

CTS1120, Computer and Network Security (Security +)
3 hrs., 3 crs.

This course introduces students to the terminology and concepts associated with network security. Topics addressed include Operating Systems Security for computers and networks; viruses, worms and malicious software; authentication, encryption and account-based security; file, directory and shared resource security; firewalls and border security; physical and network topology security; wireless security; web, remote access and VPN Security; e-mail security; and security management strategy. This course maps to skills and knowledge measured by the CompTIA Security+ (Sec+) exam.

CTS1133, Desktop Operating Systems (A+ Software)
3 hrs., 3 crs.

This course provides a broad survey of common, current operating systems. The student develops a strong foundation learning the history, types, and functions of operating systems used on personal computers. Multiple operating systems are introduced in a vendor neutral format including Windows, Linux, NetWare, and the Mac OS. The course discusses how operating systems interface with input, output, and storage devices. Instruction and hands-on activities in a continuous framework will include command-line and graphical interace operating systems. The focus will be on operating system fundamentals, installation, configuration, upgrading, diagnosing, troubleshooting and repairing microcomputer systems. This course maps to skills and knowledge required for the CompTIA A+ operating systems certification exam.

CTS1134, Networking Essentials (Network +)
3 hrs., 3 crs.

This course introduces network concepts and terminology, including data communications and network services, OSI Model topology, network media, connectivity devices and security. This course provides networking information and skills in the areas of media and topologies, protocols and standards, network implementation, and network support. This course is designed to teach the skills and knowledge measured by the CompTIA Network+ certification exam.

+CTS1156, Customer Support Fundamentals (ITIL)
3 hrs., 3 crs.

Corequisite: CGS1570.

This course focuses on key information for user support professionals, including decision making, communicating successfully with a client, determining the client's specific needs, and writing for the end user. The course reflects the latest in support industry trends, especially the use of Web and email-based support. Students will review and discuss details of real-life scenarios of working

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

professionals and issues in the workplace. This course maps to the ITIL certification exam.

+CTS1346, Managing/Maintaining MS Windows Server 2008 (MS 70-646)

3 hrs., 3 crs.

\$31.00 lab fee

Corequisite: CET1134.

This course provides students with the opportunity to develop the knowledge and skills required to implement, administer, configure, customize, optimize, manage and maintain a Microsoft Windows Server. In addition, this course provides students with the information necessary to pass Microsoft certification exam 70-646, Windows Server 2008 Server Administrator, as part of becoming a Microsoft Certified Technology Specialist (MCTS) or a Microsoft Certified IT Professional (MCITP).

+CTS1347, Windows Server 2008 Network Infrastructure (MS 70-642)

3 hrs., 3 crs.

\$31.00 lab fee

Corequisite: CTS1134.

This course is designed to provide students with the opportunity to develop the knowledge and skills required to configure, manage and troubleshoot a Microsoft Windows 2008 network infrastructure. This course is mapped to skills and knowledge measured by the Microsoft certification exam 70-642 windows Server 2008 Network Infrastructure, Configuring. This exam is required to become a Microsoft Certified Technology Specialist (MCTS) and is one part of the Microsoft Certified IT Professional (MCITP) Program.

+CTS1651, Router Technology (CISCO-CCNA)

3 hrs., 3 crs.

Corequisite: CTS1134.

This course is designed to provide students with hands-on experience in current and emerging networking technology. Instruction includes networking, network terminology and protocols, network standards, local area networks (LANs), wide area networks (WANs), Open System Interconnection (OSI) models, Transmission Control Protocol /Internet Protocol (TCP/IP) Addressing Protocol, dynamic routing, routing, and the network administrator's function. Students will successfully implement beginning router configurations, demonstrate an understanding of routed and routing protocols and the fundamentals of LAN switching. This course is mapped to skills and knowledge measured by the Cisco CCNA exam.

#CTS1939, Special Topics/Seminars

3 hrs., 3 crs.

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 five times for credit.)

+CTS2127, Certified Information Systems Security Professional (CISSP)

3 hrs., 3 crs.

Prerequisite: CTS1120.

This course is designed to expand the knowledge of computer, network, and business security. Learning will be focused on the vast array of principles, practices, technologies and tactics that are required to protect and organization's assets. This course will also prepare students to take the (ISC)2 CISSP certification.

+CTS2314, Network Defense and Countermeasures

3 hrs., 3 crs.

Prerequisites: CET1346 and CTS1120.

This course emphasizes intrusion detection and industry-standard best practices such as developing a security policies. Implementation strategies include performing Network Address Translation, setting up packet filtering, and installing proxy servers, firewalls, and virtual private networks. The course focuses on network security fundamentals through case studies and hands-on exercises. Students should have familiarity with the Internet and basic networking concepts.

+CTS2315, Firewalls and Network Security

3 hrs., 3 crs.

Prerequisites: CTS1346 and CTS1120.

This course is designed to provide students with classroom and laboratory experience. The students will learn installation techniques, how to make an intelligent choice of firewall technology, and perform basic firewall troubleshooting.

+CTS2345, Windows Server 2008 Active Directory Infrastructure (MS 70-642)

3 hrs., 3 crs.

\$31.00 lab fee

Corequisite: CTS1134.

This course provides students with the opportunity to develop the knowledge and skills required to plan, install, manage, and troubleshoot Windows Server 2008 Active Directory. This course is mapped to skills and knowledge measured by the Microsoft certification exam 70-640 Windows 2008 Network Infrastructure, Configuring. This exam is required to become a Microsoft Certified Professional Technology Specialist (MCTS) and is one part of the Microsoft Certified IT Professional (MCITP) program.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

**+#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: CTS2700.

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 provide students with hands-on experience in current and emerging networking technology. Instruction includes networking, network terminology and protocols, network standards, virtual local area networks (VLANs), switching technology, frame relay, telecommunications, VOIP, virtualization, and connectivity processes associated with storage area networks and virtual networking. This course is mapped to skills and knowledge measured by the Cisco CCNA exam.

**+CTS4817, Web Server Administration
3 hrs., 3 crs.**

Prerequisite: MAN3303, CTS1134.

This course provides students an overview of essential skills in web server administration. Topics include installation and configuration of client web servers, user creation and login authentication, configuration of applications, security, and management of user permissions.

**+EET1015C, AC & DC Circuits I
6 hrs., 4 crs.****\$47.00 lab fee**

Prerequisites: MAC1105 or approval of instructor.

This integrated lecture/lab course introduces basic electricity and electrical circuit concepts. Topics include calculation of current, voltage, resistance and power in series, parallel and combination circuits with direct current (DC) power sources. Strategies or troubleshooting electrical circuits are developed. The lab portion develops skills in using various electrical components to fabricate simple circuits, reading schematic diagrams, measuring circuit parameters, and troubleshooting circuit faults. The last portion of the course deals with the nature of alternating current (AC). The student uses basic testing equipment such as the digital multimeter, function generator and DC power source to measure voltages, currents and power. Computer simulation software is used to predict voltages and currents in various circuits and to verify results through hands-on experimentation.

**+#EET1025C, AC & DC Circuits II
6 hrs., 4 crs.****\$47.00 lab fee**

Prerequisite: EET1015C.

This AC/DC Circuits II course is the second course in the two course sequence of circuits and systems. The purpose of this course is to provide the student with the skills and knowledge necessary to analyze complex DC and AC circuits and associated applications. This course is a continuation of the concepts introduced in AC/DC Circuits I (EET 1015C). Application of advanced concepts to direct

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=PSAV course.

*Minimum grade of "C" required.

current and alternating current circuits, this course also prepares the student for the subsequent devices course EET 1041C Electronics Devices. Concepts and skills acquired in this course form the basis for all subsequent electronics courses.

+EET1141C, Electronic Devices

6 hrs., 4 crs.

\$47.00 lab fee

Prerequisite or Corequisite: EET1015C.

Integrated lecture and laboratory experiences in the study of semi-conductor 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.

+#EET2142C, Electronic Circuits

6 hrs., 4 crs.

\$47.00 lab fee

Prerequisites: EET1141C.

Study of power supplies, oscillators, and amplifiers using discrete components and operational amplifiers. 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.

EET2280C, Data Acquisition & Control (LabView)

6 hrs., 4 crs.

\$62.00 lab fee

This course covers data acquisition and control applications. Topics will include Sensors, Signal Conditioners, I/O Modules, Data loggers, Communication Protocols, Alarming, etc. Software for Graphics programming will use National Instruments Lab View Data Acquisition Systems.

+#EET2355C, Digital Communications

6 hrs., 4 crs.

\$10.00 lab fee

Prerequisite or Corequisite: EET1114C.

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 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.

+EET3218C, Control Systems Technology

6 hrs., 4 crs.

Prerequisites: MAN3303. EET2280.

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.

EST1603C, Fundamentals of Robotics

4 hrs., 3 crs.

\$47.00 lab fee

This introduction course in Robotics Technology uses the Carnegie Mellon Robotics Academy Curriculum for the LEGO® MINDSTORMS®. MINDSTORMS NXT Education is the next generation in educational robotics, enabling students to discover science, technology, engineering and mathematics in a fun, engaging, hands-on way. By combining the power of the LEGO building system with the LEGO MINDSTORMS Education technology, students can design, build, program, and test robots. Students will

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=PSAV course.

*Minimum grade of "C" required.

develop programming skills using National Instruments software and programming in C+ languages.

EST2511C, Motor and Motion Control

6 hrs., 4 crs.

\$47.00 lab fee

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.

EST2535C, Process Control and Instrumentation

6 hrs., 4 crs.

\$47.00 lab fee

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.

EST2542C, Programmable Logic Controllers

6 hrs., 4 crs.

\$47.00 lab fee

This course covers the applications, servicing and troubleshooting of programmable logic controller circuits. The Allen-Bradley Micrologic 1500 PLC processor with RSLOGIX 5/500 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.

EST2606C, Robotics

6 hrs., 4 crs.

\$47.00 lab fee

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.

EST2650C, Industrial Networking

4 hrs., 3 crs.

\$47.00 lab fee

This class covers Industrial TCP/IP, Ethernet/IP, and ControlNet for interfacing PLCs remotely located I/O modules, drives, and other industrial devices. Other networks such as Allen-Bradley Data Highway Plus, Modbus TRU, and DF-1 will be discussed as applied to PLC and industrial control applications. The Allen-Bradley PC applications RSLinx, RSLogix500, RSNetworks for DeviceNet, and RSNetworks for ControlNet will be used. Network configurations for data collection into Human Machine Interfaces, such as RSView and MicroSoft Excel, will be covered.

EST2700C, Electro-Hydraulics and Pneumatics

4 hrs., 3 crs.

\$47.00 lab fee

Hydraulic and pneumatic applications as found in industrial control applications. Content includes basic physical laws, properties of fluids, flow rate and velocity, pressure and force, hydraulic pumps, air compressors, fluid power symbols, pressure control valves, flow control valves, linear actuators, rotary actuators, sequence circuit, rapid traverse and feed circuit, counterbalance circuit, accumulator circuits and applications, pressure reducing valves, unloading valves and circuits, regenerative circuits, deceleration and braking of hydraulic actuators, fluid filtration in hydraulic circuits, and troubleshooting hydraulic and pneumatic circuits.

EST2931, 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.

COMPUTER SCIENCE/DATA PROCESSING

#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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+CGS1103, Project Management**3 hrs., 3 crs.**

Prerequisite: CGS1570.

This course will allow the student to understand how to plan, organize, create presentation material, and manage projects using various software tools. Students will utilize 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. This course maps to the knowledge and skills measured by the CompTIA Project+ certification.

+#CGS1544, Database Management Using Microsoft Access**3 hrs., 3 crs.****\$12.00 lab fee**

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.****\$12.00 lab fee**

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.

+#CGS1843, Starting a Business on the Internet**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisite: GEB1136.

Introduction to the necessary knowledge and skills required to develop and start a business on the Internet. Topics include an overview of Internet commerce, business basics, advertising, marketing, and security issues.

+CGS2069, Internet Marketing**3 hrs., 3 crs.****\$12.00 lab fee**

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.****\$12.00 lab fee**

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.

+#CGS2825, Web Site Management**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisites: CGS1570, GEB1136.

This course is designed to familiarize individuals with current and emerging web site management methodologies and technologies. The course examines the various stages of development and decision making required to establish and maintain effective web sites. Topics include project and team management, strategic and tactical planning, web servers and hosting, user and task analysis, web content and design, prototyping, web publishing tools, evaluation procedures, production and implementation, and site maintenance. A running case study takes students through planning, idea generation, testing, implementation, and maintenance of web sites.

+CIS2321, Systems Analysis and Design**3 hrs., 3 crs.****\$12.00 lab fee**

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.

+#CNT1401, Introduction to Network Security**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisite: GEB1136.

Introduction to network security. Topics covered include: legal issues and policies, managing risks, identifying types of attacks, information security best practices, e-

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

commerce needs, intrusion detection and platform-specific implementations.

COP1000, Introduction to Programming Logic
3 hrs., 3 crs.

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 methodologies 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.

COP2651, Programming Wireless Applications
3 hrs., 3 crs.

Prerequisites: COP1000.

This course provides students with an introduction to wireless device programming. Students will learn the basic features of the windows mobile internet toolkit used for "smart phones" and hand-helds. In addition, the course will cover building and delivering web services, installation, and software maintenance.

COP2657, Introduction to SmartPhone Programming
3 hrs., 3 crs.

Prerequisites: COP1000, COP2700.

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.

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.

+#COP2823, Advanced Web Page Publishing - Active Server Pages

3 hrs., 3 crs.
\$12.00 lab fee

Prerequisites: CGS1570, COP2840.

Web pages that allow users to enter data and view data from remote databases are the basis for much of the commercial usefulness of the internet. In this course students learn the design and implementation of active server pages (asp) for web site data support. Visual Basic script is used on a web server to handle data returned from forms that reside on web pages. The data is processed and response forms are created and sent back to the user. This is a hands-on course requiring all students to implement code for the client-side and server-side of the web page.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+COP2840, Internet Programming**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisites: CGS1570, COP2250.

This course builds expertise in Internet programming using JavaScript and Vbscript languages. Client-side and server-side scripting are included. Scripts will be used with HTML to add interactive capabilities to web sites.

+#CTS1205, Introduction to Spreadsheets Using Microsoft Excel**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisite: CGS1570 or permission of instructor.

An introduction to electronic spreadsheets using Microsoft Excel software to include basic spreadsheet design, databases,

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.

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****CHD2949, Child Care****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****HIM2949, Health Information Management (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****REL2949, Religion****RTV2949, Radio-TV Broadcasting****SOW2949, Social Services****SPC2949, Speech****CRIMINAL JUSTICE TECHNOLOGY**

< Denotes career development courses that are part of the Florida Criminal Justice Standards and Training Advanced Course Series. Students must be affiliated with a criminal justice agency and have approval from the agency head or the academy director prior to enrolling.

#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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

**<#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.

**<#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 knowledge, 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.

**+<#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.

**#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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

<#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.

=#CJD0939, Correctional Officer Capstone**16 contact hrs., .5 vocational crs.**

Comprehensive review of subjects taught in Correctional Officer Basic Standards. (Limited access: requires admission to the Academy or special permission of chair of public safety).

<#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.

#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.

<#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.

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. To learn to communicate criminal justice commands using basic Spanish language skills. This is a limited access course.

#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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.

#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.

#<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.

\$112.00 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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

<#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.****\$6.00 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.

<#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: CJT 2112.

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.**

Prerequisite: CJT 2112.

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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 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.

**#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.

**+CJK0007, Introduction to Law Enforcement
11 contact hrs., 0.4 vocational crs.**

Prerequisite: Admission to the Law Enforcement 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 program.**

**+CJK0008, Legal
69 contact hrs., 2.3 crs.**

Prerequisite: Admission to the Law Enforcement 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 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 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 program.

**+CJK0017, Communications
76 contact hrs., 2.5 vocational crs.**

Prerequisite: Admission to the Law Enforcement program and permission of Law Enforcement Program Coordinator. This course is part of the Criminal Justice Standards and

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 program.**

+CJK0020C, Law Enforcement CMS Vehicle Operation
48 contact hrs., 1.6 vocational crs.
\$35.00 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 Program.**

+CJK0031C, CMS First Aid for Criminal Justice Officers
40 contact hrs., 1.3 vocational crs.
\$6.00 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 requiring admission to the Criminal Justice Training Academy Law Enforcement Program or Correctional Officer Program.

=CJK0040C, Law Enforcement CMS Criminal Justice Firearms
80 contact hrs., 2.7 vocational crs.
\$241.00 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.

=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. 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 Program.**

+CJK0061, Patrol-1
58 contact hrs., 1.9 vocational cr.

Prerequisite: Admission to Law Enforcement 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 program.**

+CJK0062, Patrol 2
40 contact hrs., 1.3 vocational crs.

Prerequisite: Admission to Law Enforcement 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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 program.**

+CJK0071, Criminal Investigations
56 contact hrs., 1.9 vocational crs.

Prerequisite: Admission to Law Enforcement 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 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 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 program.**

+CJK0082, Traffic Stops

24 contact hrs., 0.8 vocational crs.

Prerequisite: Admission to Law Enforcement 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 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.

+CJK0086, Traffic Crash Investigations

32 contact hrs., 1.1 vocational crs.

Prerequisite: Admission to Law Enforcement 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.

+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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.

+CJK0096, Criminal Justice Officer Physical Fitness Training

60 contact hrs., 2.0 vocational crs.

Prerequisite: Admission to Law Enforcement 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 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 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.

=CJK0221, Correctional Cross-Over to Law Enforcement Introduction and Legal

47 contact hrs., 1.6 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 the introduction and legal section of the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission Cross-Over Training Program for Correctional and Correctional Probation Officers to Law Enforcement.

=CJK0222, Correctional Cross-Over to Law Enforcement Communications

56 contact hrs., 1.9 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 the communications section of the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission Cross-Over Training Program for Correctional and Correctional Probation Officers to Law Enforcement.

=CJK0223, Correctional Cross-Over to Law Enforcement Human Issues

32 contact hrs., 1.1 vocational cr.

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 the human issues section of the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission Cross-Over Training

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

Program for Correctional and Correctional Probation Officers to Law Enforcement.

+CJK0240, Law Enforcement Auxiliary Introduction
27 contact hrs., 1.0 vocational crs.

Prerequisite: Admission to the Criminal Justice Training Academy

An introduction to becoming a certified Law Enforcement Auxiliary Officer. This course introduces the beginning officer to the criminal justice system and its ethics and values. This course also overviews legal issues, communications and human interaction issues.

+CJK0241, Law Enforcement Auxiliary Patrol and Traffic
19 contact hrs., .6 vocational crs.

Prerequisite: Admission to the Criminal Justice Training Academy

This course introduces to the Auxiliary Law Enforcement Officer the theory and practice of officer safety and survival skills, including patrol techniques, contacting suspects, and dealing with arrests and prisoners. This course also includes incident command and crowd control, as well as traffic stops and crash investigations.

=CJK0242, Law Enforcement Auxiliary Investigations
17 contact hrs., .5 vocational crs.

This course introduces to Auxiliary Law Enforcement Officer the theories and practice of criminal justice investigations. Topics include crime scene investigations, and criminal investigation techniques including personal and property crimes.

=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.

Designed to teach rationale, techniques, and principles of communicating within the criminal justice network. (Limited access; requires admission to the Academy or special permission of chair of public safety.)

+CJK0422, Dart Firing Stun Gun
8 contact hrs., 0.3 vocational crs.

Prerequisite: Admission to Law Enforcement 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 deescalate a situation, and avoid the use of a DFSG. **This is a limited access course. It requires admission to the Law Enforcement program.**

=CJK0480, Emergency Preparedness in Correctional Institutions
26 contact hrs., 1 vocational cr.

Designed to teach rationale, techniques, and principles of emergency preparedness. (Limited access; requires admission to the Academy or special permission of chair of public safety.)

#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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

<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.

#CJT2808, Computer Applications in Criminal Justice
45 contact hrs., 3 crs.
\$12.00

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.

<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.

=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.

CRIMINOLOGY

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.

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.

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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.

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.

CULINARY MANAGEMENT**#FOS2201, Food Service Sanitation and Safety****2 hrs., 2 crs.****\$8.00 lab fee**

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.

#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.****\$12.00 lab fee**

Prerequisite: Math placement test or minimum grade of "C" in MAT0028.

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., 2 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**7 hrs., 3 crs.****\$28.00 lab fee**

Corequisite: FOS2201, FSS2243C.

Familiarization with tools, equipment, and organization of classical kitchen. Study of basic food recipes. Special emphasis is given to the study of ingredients, cooking theories, terminology, equipment, technology, weights and measures, formulas, conversions, and procedures.

+#FSS1248L, Food Specialties: Garde Manger I**4 hrs., 3 crs.****\$30.00 lab fee**

Prerequisites: FSS1202C, FOS2201, FSS1063C, FSS2243C, test into ENC1101.

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., 2 crs.****\$12.00 lab fee**

Prerequisites: Math placement test or minimum grade of "C" in MAT0028, FSS1063C.

Specialization in advanced procedures of pastries and desserts. An emphasis on decorative work and display pieces. A clear understanding of cake decoration, sugar cooking, pastillage, Pâté-a-Choux provided.

+#FSS2224L, Advanced Food Preparation**8 hrs., 3 crs.****\$12.00 lab fee**

Prerequisites: FSS1202C, FSS1063C, FSS2243C, FOS2201. Corequisite: HFT2840C.

Meal and service planning, including preparation of a complete menu for a service dining room to include appetizers, soup, salad, entrees, and vegetables. Production coordinated with dining room staff. Students will rotate and work the classical stations in the kitchen.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+#FSS2240L, Food Specialties: Cuisines of the World**7 hrs., 3 crs.****\$12.00 lab fee**Prerequisites: FSS1202C, FSS1063C, FSS2243C, 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.

+#FSS2243C, Meat Fabrication**4 hrs., 3crs.****\$12.00 lab fee**

Corequisite: FSS1202C.

Student learns to fabricate the popular primal and sub-primal cuts of meat and poultry through lecture, demonstration, and hands-on experience.

+#FSS2380, Culinary Management Practicum I – Restaurant**12 hrs., 3 crs.****\$12.00 lab fee**

Prerequisites: FSS1202C, FOS2201, FSS1063C, FSS2243C. 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**15 hrs., 3 crs.****\$12.00 lab fee**

Prerequisites: FSS1202C, FOS2201, FSS1063C, FSS2243C. Through extensive hands-on experience, students will acquire the skills necessary to plan and prepare various meals utilizing cost control methods.

#FSS2382L, Practical Exam**55 hrs., 1 cr.**

Techniques and knowledge required for a career as a professional chef. Provides knowledge needed to demonstrate artistic and creative abilities in various culinary shows, recipe contests, and exhibitions.

#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.

DANCE**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.

DENTAL ASSISTING/DENTAL HYGIENE**+#=*DEA0020C, Pre-Clinical Procedures****182 contact hrs., 6 vocational crs.****\$36.00 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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

**+#=*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 emergencies 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.**

\$58.00 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 familiarity 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.

**+#*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 gained in DEH1002 to gain mastery of

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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, and implementation will be emphasized.

+##*DEH1800L, Dental Hygiene Clinical I

15 hrs., 5 crs.

\$805.00 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 clinic. Clinical competencies involving assessment, diagnosis, treatment planning, and implementation 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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 crs.

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.

+#*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 confident, competence, and ability for self assessment.

+#DEH2900, Dental Programs Independent Study

9 hrs., 3 crs.

\$46.00 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.

+#*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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+#=*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.****\$30.00 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.

+##*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.

+##*DES1203C, Basic Skills for Dental Radiographers**1 hr., 1 cr.****\$100.00 lab fee**

Prerequisite: Document having completed at least 3 months of continuous on-the-job training through assisting in the positioning and exposing of dental radiographic film under the direct supervision of a Florida licensed dentist.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

Basic principles and procedures in the theory and practice of dental radiology with emphasis on radiation biology and safety techniques, radiographic anatomy, positioning and exposing intra- and extraoral dental images on manikins, supplemental techniques, processing, and mounting radiographs, and infection control and sterilization techniques. Designed to meet the educational requirements of the Florida State Board of Dentistry (Rule 64B5-9.011) for certification of auxiliaries in dental radiology. Participants must document successful completion of a Board-approved course which meets the requirements of subsection 64B5-9.011(5), F.A.C. within 12 months after completion of the on-the-job training required by paragraph 64B5-9.011(4)(b), F.A.C. *This course is not offered routinely; consult with Dental Programs Coordinator for availability.*

+#*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.

DIGITAL MEDIA TECHNOLOGY

+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.

COP2842, Developing Web Sites Using PHP/MySQL

3 hrs., 3 crs.

\$12.00 lab fee

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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

DIG1710, Introduction to Game Development**3 hrs., 3 crs.****\$12.00 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.****\$18.00 lab fee**

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.****\$18.00 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.****\$18.00 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.

DIG2200, Basic Video**3 hrs., 3 crs.****\$22.00 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.****\$22.00 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.****\$16.00 lab fee**

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

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=PSAV course.

*Minimum grade of "C" required.

advanced features of an editing program including special effects, composing, text and titling.

DIG2251, Introduction to Digital Audio

3 hrs., 3 crs.

\$18.00 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.

\$18.00 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.

DIG2257, Production Sound Recording

3 hrs., 3 crs.

\$18.00 lab fee

Prerequisite: DIG2510.

This is a course in the science and art of production sound. Students are taught how to use microphones, field mixers and digital sound equipment to record dialogue and sound effects in a variety of settings. The fundamentals of sound editing and mixing for picture are introduced.

DIG2280, Digital Video and Sound

3 hrs., 3 crs.

\$22.00 lab fee

Participants in this course will have an opportunity to explore basic and some advanced working concepts of video production through the use of a non-linear video editing system. Topics to be covered include: capturing both digital and analog audio and video, organizing a new project, storing digital audio and video clips, managing multiple audio and video inputs, and navigating canvas and timeline. Students will experience hands on instruction in the use of the above elements, which will result in the ability to capture, edit, and output the final product to a rendered digital compression format and DVD. Students will also be exposed to advanced features of a digital video editing program.

+DIG2284, Advanced Digital Video & Sound

3 hrs., 3 crs.

\$22.00 lab fee

Prerequisite: DIG2280.

Participants in this course will have an opportunity to explore advanced concepts and skills for planning and production of digital video segments and projects of extended length. Through a series of projects, students develop an awareness of advanced digital editing techniques. The encouragement of increasing levels of storytelling, pacing, timing, and an overall higher visual aesthetic will be emphasized. Students will work in teams to design, plan, and create a video segment within an array of genres: documentary, staged interview, fiction, animation, and more.

+DIG2300, 2D Animation

3 hrs., 3 crs.

\$22.00 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., 3 crs.

\$25.00 lab fee

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.

\$25.00 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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

**+DIG2410, Basic Scripting for Video & Digital Media
3 hrs., 3crs.**

Prerequisite: Satisfactory reading and English scores on the College-Level Entry Placement Test.

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.

**+DIG2430, Storyboarding and Conceptualizing for Game Development
3 hrs., 3crs.**

\$18.00 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 adviser.

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.

**GRA1100C, Principles of Graphic Design
6 hrs., 3crs.**

\$12.00 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.**

\$18.00 lab fee

Prerequisite: GRA1100.

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.**

\$18.00 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.**

\$25.00 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.**

\$25.00 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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

DESIGN DRAFTING-ARCHITECTURE/INDUSTRIAL**EGS1110C, Engineering Drawing****6 hrs., 3 crs.****\$49.00 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.

+EGS1130C, Descriptive Geometry**6 hrs., 3 crs.****\$25.00 lab fee**

Prerequisite: EGS1110C or previous drafting experience.

Students must furnish own drafting instruments.

This course focuses on the graphical solution of relationships between point, lines, planes, and solids in space with emphasis on advanced geometric constructions, auxiliary views, surface intersections, and developments.

+ETD1320, AutoCAD**3 hrs., 3 crs.****\$49.00 lab fee**

Prerequisite: EGS1110C 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.

#ETD1325, AutoCAD, Level I**1 hr., 1 cr.****\$10.00 lab fee**

Basic knowledge and skills necessary to successfully operate a microcomputer system using a Computer Aided Drafting and Design application program. Topics include CADD System Hardware, MS-DOS Operating System, installing AutoCAD, operating AutoCAD, using draw and edit menus.

+#ETD1326, AutoCAD, Level II**1 hr., 1 cr.****\$10.00 lab fee**

Prerequisite: ETD1325.

Review of AutoCAD, Level I, drawing graphic entities, advanced editing commands, dimensioning commands, advanced plotting commands.

+#ETD1327, AutoCAD, Level III**1 hr., 1 cr.****\$10.00 lab fee**

Prerequisite: ETD1326.

Review of AutoCAD Levels I and II, grouping entities into blocks, drawing enhancements, attributes, and data extraction.

+ETD2350, Advanced AutoCAD**3 hrs., 3 crs.****\$49.00 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.****\$49.00 lab fee**

Prerequisite: EGS1110C 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).

+#ETD2395, CAD for Architecture**6 hrs., 3 crs.****\$49.00 lab fee**

Prerequisites: 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.

+#ETD2461, Mechanical Systems Drafting**1 hr., 1 cr.**

Prerequisite: EGS1110C. Corequisite: ETD2461L.

Industrial drafting with emphasis on piping, welding, and design of gearing and cams.

+#ETD2461L, Mechanical Systems Drafting Lab**6 hrs., 3 crs.****\$49.00 lab fee**

Prerequisite: EGS1110C. Corequisite: ETD2461.

Investigation and implementation of ETD 2461 lecture content with emphasis on drafting solutions using both manual and computer methods.

+#ETD2465, Jig and Fixture Design**1 hr., 1 cr.**

Prerequisite: EGS1110C. Corequisite: ETD2465L.

Emphasis on jig and fixture design, casting design, materials selection, and computer-aided design solutions.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+#ETD2465L, Jig and Fixture Design Lab**6 hrs., 3 crs.****\$49.00 lab fee**

Prerequisite: EGS1110C. Corequisite: ETD2465.
Investigation and implementation of ETD 2465 lecture content with emphasis on drafting solutions using computer-aided design drafting equipment and software.

+#ETD2730, Industrial Drafting**1 hr., 1 cr.**

Prerequisite: EGS1110C. Corequisite: ETD2730L.
The course will focus on concepts and practices of geometric dimensioning and tolerancing using practical examples and SME videos. All drawings will be done using AutoCAD. Emphasizes industrial drafting conventions and practices, including tolerancing, dimensions, surface control, threads, and assemblies, using ANSI standards.

+#ETD2730L, Industrial Drafting Lab**6 hrs., 3 crs.****\$49.00 lab fee**

Prerequisite: EGS1110C. Corequisite: ETD2730.
Investigation and implementation of lecture content with emphasis on drafting solutions.

+TAR1120, Architectural Drafting**1 hr., 1 cr.**

Prerequisite: EGS1110C. 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.****\$49.00 lab fee**

Prerequisite: EGS 1110C. Corequisite: TAR 1120.
Investigation and implementation of lecture content with emphasis on drafting solutions.

+#TAR2122, Residential Architectural Design**1 hr., 1 cr.**

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.****\$49.00 lab fee**

Corequisite: TAR2122.
Investigation and implementation of TAR 2122 lecture content with emphasis on drafting solutions using computer-aided design system.

+TAR2154, Commercial Architectural Design**1 hr., 1 cr.**

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.****\$49.00 lab fee**

Prerequisite: TAR1120. Corequisite: TAR2154.
Investigation and implementation of TAR2154 lecture content with emphasis on drafting solutions using computer-aided design system.

EARLY CHILDHOOD EDUCATION**+#CHD1110, Infant Growth and Development for Child Care Workers/Teachers****4 hrs., 3 crs.**

Prerequisite/Corequisite: CHD2220.
This course is designed to provide students with learning opportunities related to the normal sequence of physical, cognitive, social, and emotional development of the child from birth to two years of age. Emphasis is placed on the implementation of respective caregiving, responsive attachment and environmental teaching strategies that promote quality childcare programming in infant and toddler care settings. Observations in infant child care development programs required.

+#CHD1320, Curriculum and Guidance for Young Children**3 hrs., 3 crs.**

Prerequisite/Corequisite: CHD2220.
This course is designed to provide students with learning opportunities related to the principles and practices of curriculum implementation in programs appropriate for the young child, birth to five years of age. Current educational and brain research is presented as the foundation for understanding the role of the early education and care teacher and the role of curriculum as it relates to techniques that support the development of the

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

whole child. Curriculum areas target strategies that support the Content and Functional areas included in the Florida Child Care Professional Credential, to include at a minimum, the child's development in language and literacy, creativity, discovery and science, music and movement, social studies, math, and the social and emotional development.

+#CHD1339, Movement Activities

2 hrs., 2 crs.

Prerequisite/Corequisite: CHD2220.

This course is designed to provide students with learning opportunities related to the theory and practice of movement as a foundation for the development of the whole child, birth to eight years of age. Recent educational and brain research is presented with movement theory to develop the student's understanding of the role of movement in the child's development to include movement as a teaching strategy. The basics of 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 required for this course.

+#CHD1382, Activities for School Age Children

4 hrs., 3 crs.

Prerequisite/Corequisite: CHD2220.

This course provides the student with principles of curriculum to meet the needs of the school age child in child care. Subjects include physical, social, emotional, and cognitive development, as well as activities in art, science, woodworking, literature, puppetry, and drama.

+#CHD1430, Observing and Recording Child Behavior

4 hrs., 3 crs.

Prerequisite/Corequisite: CHD2220.

This course is designed to provide students with learning opportunities related to the principles of observing, recording, and interpreting child behavior. 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.

+#CHD1432, Learning Activities for Young Children

4 hrs., 4 crs.

Prerequisite/Corequisite: CHD2220.

This course is designed to provide students with learning opportunities in the development, selection, and implementation of developmentally appropriate activities that support the young child's skill-based learning.

Elements of course include outcome-based activity design, activity evaluation, and development of activities to promote classroom routines, transitions, and small group learning. Areas of study include theme-based activity planning and child-interest based planning.

+#CHD1440, Early Childhood Teaching Practicum

5 hrs., 3 crs.

Prerequisite/Corequisite: CHD2220.

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 child growth and development, observing and recording, physical, cognitive, and psychosocial development, communication, language and literacy, creativity, child observation and assessments, families, program management, and professionalism. This course requires the successful completion of an Early Childhood Portfolio that includes, at a minimum, an autobiography, competency statements, and a designated resource collection as validation of teacher core competencies, targeting the child ages birth to five years.

+#CHD2136, FCCP Credential

1 hr., 1 cr.

\$50.00 lab fee

Prerequisite/Corequisite: CHD2220.

This course is designed to provide students seeking the Florida Child Care Professional Credential (FCCPC) with classroom strategies to support the successful completion of an on-site observation validating student competence in FCCPC functional areas and goals. Classroom observations must be in a birth to five early childhood setting. Documentation of 480 hours of early childhood teaching experience, in a setting serving children ages birth to five years, with 120 hours of teacher experience being validated within the timeframe of the FCCPC course completion must be provided before an observation is completed. Only approved observers may complete the final FCCPC observation using the designated observation tool.

#CHD2220, Child Development

3 hrs., 3 crs.

\$10.00 lab fee

This course is 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 the development of teaching techniques for fostering healthy development in each of the developmental domains. This course includes demonstration of teacher competence in each of the

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=PSAV course.

*Minimum grade of "C" required.

Florida Child Care Professional Credential (FCCPC) Content Areas. On-site observations and teaching artifacts required for this course. This course is a pre- or corequisite for all other CHD courses.

+#CHD2450, Teacher Aide Practicum I
4 hrs., 3 crs.

Prerequisite/Corequisite: CHD2220.

This course is designed to provide the student with basic skills necessary to support the daily implementation of developmentally appropriate practices in the early childhood classroom. Emphasis on interpersonal abilities and support strategies that complement the lead classroom teacher practices are included.

+#CHD2710C, Children with Exceptionalities
4 hrs., 3 crs.

Prerequisite/Corequisite: CHD2220.

This course is designed to provide the student with learning opportunities related to the characteristics of children with a variety of exceptionalities and differing abilities. Teaching techniques and environmentally based strategies that support the child's abilities provide the foundation for understanding the role of the teacher, partnerships with parents, community support planning, and coordination of children's services. Lab hours provide opportunities to observe and work with children in diverse programs that serve children with exceptionalities.

+#CHD2803, Early Care and Education Administrative Overview (Director Credentials)
3 hrs., 3 crs.

Prerequisite/Corequisite: CHD2220.

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 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.

+#CHD2810C, Nutrition, Health, and Safety for Young Children
4 hrs., 4 crs.

Prerequisite/Corequisite: CHD2220.

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 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.

+#CHD2832, Early Child Care Managerial Issues
3 hrs., 3 crs.

Prerequisite: CHD2803 or equivalent.

This course meets the educational requirements for the Florida Director Credential Renewal and provides students with educational experiences related to constructing quality, early learning frameworks. Students also apply, analyze, and evaluate organizational strategies, management techniques, and topics related to educational, financial, and legal issues that support quality infrastructures.

ECONOMICS

+ECO2013, Principles of Economics, Macro
3 hrs., 3 crs.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C."

The course deals with the basic tools of analytical macroeconomics applied to the vital problems of our dynamic economy, national income, business fluctuations, unemployment and inflation, the problems of economic growth, government fiscal and monetary policy, money and banking, gold and foreign trade, and the challenge of alternative economic systems.

+ECO2023, Principles of Economics, Micro
3 hrs., 3 crs.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C."

This course deals with the theory of price determination, resource allocation, and income distribution. In this course, attention is on the classic theories of economics as they are interpreted in contemporary analysis.

EDUCATION

EDF1005, Introduction to the Teaching Profession
3 hrs., 3 crs.

This is a survey course including historical, sociological and philosophical foundations of education, governance 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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 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 EDF 2085 observations.**

**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.

EDUCATOR PREPARATION INSTITUTE

**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.

**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,

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.
\$50.00 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 15 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.

EPI0945, Diversity in the Classroom: Field Experience
1 hr., 1 cr.
\$50.00 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 designated within the EPI 0030: Diversity in the Classroom. The field experience consists of a total of 15 hours of performances and observations. These hours 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.

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.
\$10.00 lab fee

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.)

#EMS1381C, Emergency Medical Technician Refresher
2 hrs., 2 crs.
\$26.00 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.
\$79.00 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.

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=PSAV course.

*Minimum grade of "C" required.

+#EMS1555, EMS Trauma Management**16 hrs., 1 cr.****\$18.00 lab fee**

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.

+#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.**

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.****\$29.00 lab fee; \$42.60 National Registry Skills Examination fee**

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.****\$85.00 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.****\$24.00 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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+#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.****\$24.00 lab fee**

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 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.****\$8.00 lab fee**

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.****\$63.00 lab fee**

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.

ENGINEERING TECHNOLOGY**+CGN2327L, Civil Engineering Graphics Lab****3 hrs., 1 cr.**

Prerequisite: EGN2123 or ETD1320C 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.

+EGN2123, Computer Graphics for Engineers**2 hrs., 2 crs.****\$25.00 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

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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.

+EGN2212, Engineering Statistics and Computation
3 hrs., 3 crs.

\$42.00 lab fee

Prerequisite: EGS1001 and MAC2311.

Identify and solve engineering problems including formulation, algorithm development and programming, measurement and computational error assessment and the application of statistical and numerical modeling tools necessary for engineering practice using Mathcad™ and Excel™.

EGS1001, 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.

+#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.

\$25.00 lab fee

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.

\$25.00 lab fee

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.

+ETG2502, Statics

3 hrs., 3 crs.

\$42.00 lab fee

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.

#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.

+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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+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: EST2606C. 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.

+SUR2101, Surveying and Measurements
3 hrs., 3 crs.

Prerequisites: EGS1110C, 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.
\$10.00 lab fee

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.

ENGLISH**+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.

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.

+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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.)

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

Prerequisite: Satisfactory English scores on the Florida College Entry-Level Placement Test or completion of ENC0025 with a minimum grade of "C" and satisfactory reading scores on the Florida College Entry-Level Placement Test or completion of REA0017 or REA1390 with a minimum grade of "C." 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.

+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."

+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.

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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

FINANCE**+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.

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.

**+ENT2112C, Business Plans
4 hrs., 4 crs.**

Corequisite: ENT2000. This course is specifically designed for students seeking a certificate in entrepreneurship, or elective toward an AAS 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 AAS 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.**

Corequisite: ENT2000. This course is designed specifically for students seeking a certificate in entrepreneurship or elective toward an AAS in business. It does not fulfill the complete accounting requirements for the AAS 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 AAS 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.

FIREFIGHTINGMaritime**=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.

Firefighter Minimum Standards**+FFP0010, Firefighter 1
206 contact hrs., 6.9 vocational crs.
\$109.00 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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+FFP0020, Firefighter 2**192 contact hrs., 6.4 vocational crs.****\$50.00 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.)

FIRE SCIENCE**#FFP1140, First Responder to Medical Emergencies****3 hrs., 3 crs.****\$13.00 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 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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+ #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.

+ #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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

FOREIGN LANGUAGES

See Spanish

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
- 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).

FRENCH**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.

+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 civilization 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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

listening, reading, writing, and speaking skills in the intermediate level.

GEOGRAPHY

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.

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.

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.

Prerequisite: Satisfactory English scores on the Florida College Entry-Level Placement Test or completion of ENC0025 with a minimum grade of "C" and satisfactory reading scores on the Florida College Entry-Level Placement Test.

Corequisite: OST1257.

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: OST1257, 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: OST1257, 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.

\$12.00 lab fee

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.

HEALTH PROFESSIONS

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.

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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.

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.

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.

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.

HOSPITALITY**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.

#HFT1300, Executive Housekeeping
3 hrs., 3 crs.

A study of the broad scope of the housekeeper's position stressing employee training, record keeping, and executive responsibilities.

#HFT1410, Front Office Procedures
3 hrs., 3 crs.

A study of human and public relations responsibilities of front office operation. Necessary principles of management, routines, reservations, and the trade accounting procedures are introduced.

#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.

#HFT2223, Training in the Hospitality Industry
3 hrs., 3 crs.

Covers all elements of training for a new or established hospitality operation and gives students the knowledge that will enable them to develop and maintain a competent staff.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

**+#HFT2264C, Banquet and Convention Management
6 hrs., 3 crs.****\$12.00 lab fee**

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.

#HFT2313, Facilities Management**3 hrs., 3 crs.**

Covers all major facility systems; features special contributions from leading experts, including the most current information on telecommunication systems, lodging and food service planning, design, and renovation.

+#HFT2840C, Dining Room Operations**8 hrs., 3 crs.****\$12.00 lab fee**

Prerequisites: FOS2201, FSS1202C. Corequisite: FSS2224L.

Types of dining room and beverage service techniques found in the hospitality industry.

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.

+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.

INTERNATIONAL STUDIES**+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 special 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 Sciences
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.)

JOURNALISM/MASS COMMUNICATION**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.)

**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).

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+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.

LEGAL ASSISTING/PARALEGAL**+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.

#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, tracts, and leases, with emphasis on the construction 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.

LITERATURE**+*AML2010, American Literature through the Civil War**
3 hrs., 3 crs.

Prerequisite: ENC1102 with minimum grade of "C." (Meets Area III 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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 Area III 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 Area III 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."

+*ENG2111, Literature and Film

3 hrs., 3 crs.

Prerequisite: ENC1102 with a minimum grade of "C."
(Meets Area III Humanities requirement.)

Examines works of literature and their film adaptations, 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."

+*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."

+*LIT2040, World Drama

3 hrs., 3 crs.

Prerequisite: ENC1102 with a minimum grade of "C."
(Meets Area III 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 Area III 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 Area III 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 Area III 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 Area III Humanities requirement.)

Major themes, works, authors of literature by women. This course is a Gordon Rule writing course in which

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.)

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.

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.

+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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.

#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.

+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.

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 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.

+#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.

MATHEMATICS

First-time and transfer students will be placed by their faculty adviser into one of the following sequences of mathematics courses according to the results of the Florida College Entry-Level Placement Test or their official transcript evaluation.

Suggested sequences of mathematics courses:

Students who are planning courses of study in nonscientific or nontechnical areas and who desire only to meet the six-hour credit course requirement for General Education should enroll in MGF1106 and MGF1107.

Students who plan to major in mathematics/science areas should pursue the following sequence: MAC1105, MAC1140, MAC1114, MAC2311, MAC2312, and MAC2313.

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Students who plan to major in business areas requiring business calculus should pursue the following sequence: MAC1105 and MAC2233.

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.

+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).

+MTB0375, Health Math **2 hrs., 2 crs.**

Prerequisite: Satisfactory score on math placement test. Health Math is a course designed for students completing a degree in a health-related field. This 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 for an A.A. degree. Topics included are arithmetic, metric system, apothecary measurements, percent, techniques of

health-data analysis, ratio and proportion, medication administration, understanding medication orders, calculating dosages using ratio-proportion, calculations of oral and parenteral medications, insulin, pediatric dose calculations, i.v. calculations, and heparin calculations.

College-Level Mathematics Elective Credit

+MAT1033, Intermediate Algebra **3 hrs., 3 crs.**

Prerequisite: Math placement test or minimum grade of "C" in MAT0028.

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 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.

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. A TI84 model is recommended.

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. A TI84 model is recommended.

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

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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. A TI84 model is recommended.

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. A TI84 model is recommended.

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. A TI84 model or higher is recommended.

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. A TI84 model or higher is recommended.

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. A TI84 model or higher is recommended.

Topics included are three dimensional space, vectors, vector-valued functions, partial derivatives, and multiple integrals.

+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.

+MAP2302, Differential Equations

3 hrs., 3 crs.

Prerequisite or Corequisite: MAC2313 or consent of instructor. A graphing calculator is required. A TI84 model or higher is recommended.

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.

+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.

+MGF1106, Mathematics for Liberal Arts I

3 hrs., 3 crs.

Prerequisite: Satisfactory score on the math placement test or minimum grade of "C" in MAT1033.

This course requires the student to be skilled in Intermediate Algebra, and so it is recommended that

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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, combinatorics, probability, and elementary statistics.

+MGF1107, Mathematics for Liberal Arts II
3 hrs., 3 crs.

Prerequisite: Successful completion of MGF1106 with a grade of "C" or higher. 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. 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.

+STA2023, Statistics
3 hrs., 3 crs.

Prerequisite: Satisfactory score on math placement test or a minimum grade of "C" in MAT1033. A graphing calculator is required. A TI84 model is recommended. 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 MAC1105. An introductory course which includes probability distributions, hypothesis testing, confidence interval estimation, correlation, analysis of variance, and regression.

MUSIC

+MUL2010, Understanding Music
3 hrs., 3 crs.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C."
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. (Meets Area I Humanities requirement).

+MUL2110, Survey of Music Literature
3 hrs., 3 crs.

Prerequisites: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C," MUT1112, MUT1242, or permission of instructor. (Meets Area I Humanities requirement.)
The analysis and study of music literature. Includes intensive listening and reading of musical scores. (Intended for music majors.)

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.

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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.)

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.)

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 fundamentals, 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 fundamentals, 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 fundamentals, 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.

+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.

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

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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
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.****\$13.00 lab fee**

Beginning class instruction in piano techniques and keyboard harmony. (May be repeated once for credit.)

+MVK2121, Class Piano II**2 hrs., 1 cr.****\$13.00 lab fee**

Prerequisite: MVK1111.

Intermediate class instruction in piano techniques and keyboard harmony. (May be repeated once for credit.)

MUSIC PRODUCTION TECHNOLOGY**+MUC2000, Songwriting****3 hrs., 3 crs.****\$15.00 lab fee**

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.

+MUM1620, Audio & Acoustics Fundamentals**3 hrs., 3 crs.**

Prerequisite or Corequisite: College level math.

This course includes the study of basic vibrating systems and sound sources; sound outdoors and indoors (waves, echoes, and reverberation); sound transmission and noise reduction; sound reinforcement systems; room acoustics and vibration isolation; hearing and psychoacoustics; and acoustics of musical instruments.

+MUM1622, Sound Reinforcement Fundamentals**3 hrs., 3 crs.****\$35.00 lab fee**

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.****\$12.00 lab fee**

Prerequisite or Corequisite: MUM 1620. 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.****\$11.00 lab fee**

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.****\$12.00 lab fee**

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.****\$25.00 lab fee**

This course in music technology presents advanced techniques used in working with DIGIDESIGN PRO TOOLS hardware and software in professional studio recording

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and editing. This course will prepare students for MUM2604.

MUM2604, Multitrack Mixdown (Post Production)
3 hrs., 3 crs.

\$16.00 lab fee

This course explores the process of preparing and transferring recorded audio from a source aiming 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, acts, agencies and management, publishing, song writing, recording production and marketing in the field of music.

MUS2550, Music Technology
3 hrs., 3 crs.

\$15.00 lab fee

The study of music technology, including midi sequencing, notation, CD ROMS, and the Internet.

NUCLEAR MEDICINE TECHNOLOGY

+#NMT1002, Introduction to Nuclear Medicine
45 contact hrs., 3 crs.

Prerequisite: Program Admission, Current CPR BLS certification.

This course teaches an introduction to the profession of Nuclear Medicine and includes introductory math, patient care, universal precautions, patient communication and interactions, diversity, medical ethics and the legal and compliance issues and an overview of the healthcare system.

+#NMT1312, Radiation Protection and Safety
45 contact hrs., 3 crs.

Prerequisite: CHM 1032.

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
60 contact hrs., 4 crs.

Prerequisite: NMT1002C.

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.

Prerequisite: NMT 1002C.

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.

+#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.
\$89.00 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.

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+#NMT1814, Nuclear Medicine Clinical Education II
360 contact hrs., 3 crs.**\$64.00 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**\$89.00 lab fee**

Prerequisite: NMT 1814. Corerequisite: NMT 1733.

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
240 contact hrs., 2 crs.**\$64.00 lab fee**

Prerequisite: NMT 1824. Corerequisite: NMT 2573C.

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.

+#NMT2130, Radiopharmacy and Radiochemistry
45 contact hrs., 3 crs.

Prerequisite: NMT1824.

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.

+#NMT2534C, Nuclear Medicine Instrumentation
75 contact hrs., 3 crs.

Prerequisite: NMT1002C.

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.

+#NMT2573C, Quality Control and Assurance
30 contact hrs., 2 crs.

Prerequisite: NMT 1733.

This course instructs students in the routine quality-control (QC) procedures for current nuclear medicine instrumentation, including the survey meter, dose calibrator, well counter, uptake probe, scintillation camera, and PET/CT scanner.

NURSING**+#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.

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=PSAV course.

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**#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.

**+#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.****\$265.00 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.

**+#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
150 hrs., 3 crs.****\$86.00 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.

**+#NUR1000C, LPN to ADN Transition
5 hrs., 5 crs.****\$10.00 lab fee**

Prerequisites: Completion of general education courses described in the application packet: BSC2085, BSC2085L, DEP2004, HUN1201, NUR1142, BSC2086, BSC2086L. Corequisite: 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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+#NUR1005C, LPN to ADN Transition**2 hrs., 1 cr.****\$11.00 lab fee**

Prerequisites: BSC2085, BSC2085L.

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.

+#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 adviser 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.****\$13.00 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.****\$10.00 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.****\$6.00 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.

+#NUR2241C, Nursing Care of the Adult III**13 hrs., 8 crs.****\$16.00 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.****\$12.00 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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.

\$25.00 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.

\$4.00 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.

\$55.00 lab fee

Prerequisite: NUR2241C.

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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

***NUR3636C, Community Health Nursing**
5 hrs., 4 crs.

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.

***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.

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.

NURSING ASSISTANT**=HCP0001, Health Careers Core**
90 contact, 3 vocational crs.
\$15.00 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).

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+HCP0120C, Basic Nursing Care
75 contact, 2.5 vocational crs.
\$18.00 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).

NUTRITION

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.

OFFICE ADMINISTRATION

+#OST1061, Introduction to Office Management
3 hrs., 3 crs.
\$12.00 lab fee

(Offered fall semester only).

Prerequisite: Satisfactory English scores on the Florida College Entry-Level Placement Test or completion of ENC0025 with a minimum grade of "C" and satisfactory reading scores on the Florida College Entry-Level Placement Test.

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.
\$12.00 lab fee

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.
\$12.00 lab fee

(Offered spring semester only).

Prerequisite: OST1101 or pretest by instructor.

A continuation of OST1101.

#OST1257, Medical Terminology Workshop
2 hrs., 2 crs.
\$8.00 lab fee

Study of medical terminology, including prefixes, suffixes, pronunciation, definition, and usage.

+#OST1355, Records Management
3 hrs., 3 crs.
\$8.00 lab fee

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.
\$12.00 lab fee

Prerequisites: OST1101, OST1257, 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.
\$12.00 lab fee

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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+#OST1612, Medical Transcription 2**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisite: OST1611

Transcription of intermediate original healthcare dictation using intermediate proofreading, editing, and research skills, while meeting progressively demanding accuracy and productivity standards.

+#OST1613, Medical Transcription 3**3 hrs., 3 crs.****\$12.00 lab fee**

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.****\$12.00 lab fee**

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.****\$12.00 lab fee**

(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.****\$12.00 lab fee**

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.****\$12.00 lab fee**

(Offered fall semester only).

Prerequisites: OST 1101 or OST1856 or CGS1570, and satisfactory English scores on the Florida College Entry-Level Placement Test or completion of ENC0025 with a minimum grade of "C" and satisfactory reading scores on the Florida College Entry-Level Placement Test or completion of REA0017 with a minimum grade of "C" or consent of instructor.

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.****\$12.00 lab fee**

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).

PHARMACY TECHNICIAN**+#PTN1101, Pharmacy Technician Orientation****3 hrs., 3 crs.**

Prerequisites: ENC1101 with a minimum grade of "C", MTB0375 or higher, OST1257, BSC1020 & BSC1020L or higher level anatomy class.

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.

+#PTN1121, Pharmacological Agents I**3 hrs., 3 crs.**

Prerequisites: ENC1101 with a minimum grade of "C", MTB0375 or higher, OST1257, BSC1020 & BSC1020L or higher level anatomy class.

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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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: ENC1101 with a minimum grade of "C", MTB0375 or higher, OST1257, BSC1020 & BSC1020L or higher level anatomy class, PTN1101.

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
5 hrs., 5 crs.
\$42.00 lab fee

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 internship (practicum).

+#PTN1131L, Applied Pharmacy Operations Lab
4 hrs., 2 crs.
\$42.00 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 internship.

+#PTN1940, Pharmacy Technician Practicum I
225 hrs., 5 crs.

Prerequisites: PTN1101, PTN1121, PTN1122, PTN1131, PTN1131L.

This course provides practical experience for the pharmacy technician student in a working pharmacy environment.

+#PTN1941, Pharmacy Technician Practicum II
225 hrs., 5 crs.

Prerequisites: PTN1101, PTN1121, PTN1122, PTN1131, PTN1131L.

This course provides practical experience for the pharmacy technician student in a working pharmacy environment.

PHILOSOPHY

+PHH2060, Introduction to Classical Philosophy
3 hrs., 3 crs.

Prerequisite: ENC1101 with a minimum grade of "C." (Meets Area II 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."

+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 Area II 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 Area II 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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 Area II 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 Area II 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."

PHOTOGRAPHY

PGY2404C, Photography II

6 hrs., 3 crs.

\$36.00 lab fee

Emphasis on the development of a personal approach to photographic interpretation through refinement of technical skills and experimentation. Double printing, texture printing, solarization, and toning are some of the techniques used. Color photography and the zone system are covered.

PGY2801C, Digital Photography I

6 hrs., 3 crs.

\$52.00 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.

\$52.00 lab fee

Prerequisite: PGY2801C.

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.)

PHYSICAL SCIENCES

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.

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.

+ESC2000L, Earth and Space Science Survey Laboratory

2 hrs., 1 cr.

\$30.00 lab fee

Corequisite: ESC2000 or consent of instructor.

Consists of mineral and rock identification and classification; map interpretation; measurement of weather factors, and observational astronomy. The following courses will also meet the physical science general education requirements:

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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+EVR1001L, Introduction to Environmental Science Laboratory**3 hrs., 1 cr.****\$30.00 lab fee**

Prerequisite or Corequisite: EVR1001.

Laboratory activities will focus on resource management issues. Student will learn how to design experiments, conduct field work, collect and analyze data, and prepare scientific reports. (Recommended for students majoring in science or secondary science education.)

GLY1010, Physical Geology**3 hrs., 3 crs.**

Physical properties, identification, and origin of minerals. Classification of rocks, physical processes that shape the earth; gradation, deposition, vulcanism, glaciation, weathering, rock deformation, mountain building and metamorphism. Geologic maps.

+GLY1010L, Physical Geology Laboratory**2 hrs., 1 cr.****\$30.00 lab fee**

Prerequisite or Corequisite: GLY1010.

Exercises in the identification of common rocks and minerals, interpretation of topographic maps and aerial photographs, methods of geological illustration.

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.

ISC1004C, Interdisciplinary Science**4 hrs., 4 crs.****\$30.00 lab fee**

This course is intended to simplify science and emphasize the interconnectedness among the science subdisciplines of physical science, chemistry, earth, and biological science that has evolved over the past two centuries. The course provides a basic overview of how science works on the same set of fundamental principles that will provide a basic foundation of scientific literacy for the non-science majors, particularly elementary education majors.

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.

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.

PHYSICAL THERAPIST ASSISTANT**+#PHT1000, Introduction to Physical Therapy****3 hrs., 3 crs.**

Prerequisite: Acceptance into PTA program.

Introduction to the history, present practice, and future trends of the profession. Introduction to team concept in health care, including the role and responsibilities of the physical therapist assistant. 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.

+#PHT1102, Applied Anatomy for PTAs**1 hr., 1 cr.**

Prerequisites: BSC2085, BSC2085L.

A course for PTA students that reviews musculoskeletal, neuromuscular, and basic anatomical concepts and discusses their application to physical therapy procedures.

+#PHT1124, Functional Human Motion**3 hrs., 3 crs.**

Prerequisites: BSC2085, BSC2085L.

Study of basic kinesiological and biomechanical principles and their application to human movement. Includes analysis of normal movement patterns, posture, and gait. Examination of concepts of coordinated muscle function and neuromotor control. Surface anatomy and palpation.

+#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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+#PHT1131, Assessment, Measurement, and Documentation**1 hr., 1 cr.**

Prerequisite: OST1257.

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.****\$3.00 lab fee**

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.

+#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.****\$28.00 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**2 hrs., 2 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.****\$6.00 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.

+#PHT2211, Therapeutic Modalities**2 hrs., 2 crs.**

Prerequisites: PHT1220, PHT1220L.

Study of the physical principles, physiological effects, indications, contraindications, 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.****\$18.00 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.

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=PSAV course.

*Minimum grade of "C" required.

+#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.

+#PHT2225L, Therapeutic Interventions II Lab**4 hrs., 2 crs.****\$3.00 lab fee**

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.****\$2.00 lab fee**

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.****\$25.00 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 1/2 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.

+#PHT2810, PTA Clinical Practice II**40 hrs., 5 crs.**

Prerequisite: PHT 2801. Corequisite: PHT 2931.

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.

+#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.

+#PHT2931, Seminar**2 hrs., 2 crs.**

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 inuing education and professional development and quality assurance. Licensure issues. Job skills such as resumes and interview techniques. Reviewing for final competency exam and

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licensing exam preparation. Presentation of in-service and quality assurance projects. Final comprehensive exam.

**Advanced Technical Certificate In
Massage Therapy**

**+#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.

**+#PHT2204L, Manual Techniques II Lab
4 hrs., 2 crs.**

\$18.00 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.

**+#PHT2803, Clinical Practicum in Manual Techniques I
60 hrs., 1 cr.**

\$28.00 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.

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.**

\$38.00 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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+Prerequisite and/or corequisite required.

=PSAV course.

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+PHY2049L, University Physics II Laboratory**3 hrs., 1 cr.****\$30.00 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.****\$38.00 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.****\$30.00 lab fee**

Corequisite: PHY2054 or consent of instructor.

A continuation of PHY2053L.

POLITICAL SCIENCE**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.

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.

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.

PRACTICAL NURSING**=HCP0001, Health Careers Core****90 contact hrs., 3 vocational crs.****\$15.00 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).

+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.

+MTB0372, Applied Math**30 contact hrs., 1 vocational crs.**

Prerequisite: HSC0530.

This course enables the student 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.

+PRN0001C, Fundamentals of Nursing Care**270 contact hrs., 9 vocational crs.****\$22.00 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

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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

45 contact hrs., 1.5 vocational crs.
\$14.00 lab fee

Prerequisite: MTB0372.

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.

+PRN0100C, Maternal/Newborn Nursing
120 contact hrs., 4 vocational crs.

\$30.00 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.

+PRN0381C, Medical-Surgical Nursing I
210 contact hrs., 7 vocational crs.
\$11.00 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.

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

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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.

DEP2000, The Psychology of Childhood and Youth
3 hrs., 3 crs.

This course provides an approach to the study of children through an investigation of scientific facts which explain the characteristic maturation and development of human behavior. The course examines the role of home and family life in child development and the psychology of the gifted child.

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.

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.

RADIO/TELEVISION BROADCASTING

RTV1000, Electronic Media Survey
3 hrs., 3 crs.

A broad overview of the history, programming theory, law, and salient regulations that have affected and shaped the relationship of the electronic media and American society. Mediated examples strengthen class discussions and study that range from the telegraph to cutting-edge technology.

RTV1240, Basic Audio Production
3 hrs., 3 crs.

Basic production techniques and business concepts found in today's radio world. Students will develop, plan, and perform promotional announcements, on-air checks, and digital editing assignments resulting in possible air work on WKGC-AM/FM, the college's two public radio stations.

+RTV1241, Basic Video Production
3 hrs., 3 crs.

Prerequisite: RTV1240.

Technique and aesthetic training of numerous video elements through a series of in-class assignments and out-of-class projects. Students will produce, direct, script,

shoot, and edit work that mirrors real-world business and commercial production considerations.

+RTV1941, Radio Practicum
3 hrs., 3 crs.

Prerequisite: RTV1240.

Familiarization with all equipment and basic operation of WKGC radio with emphasis on program production in news, performance, and public affairs. One-on-one instruction and supervision.

RTV1942, Video Practicum
3 hrs., 3 crs.

Hands-on instruction utilizing television production equipment, camera operation, directing techniques, camera presence, video tape editing, and program production will be featured.

+RTV2100, Electronic Media Writing
3 hrs., 3 crs.

Prerequisite: ENC1102.

Development of fundamental skills used in both radio and television journalism. A clear, concise, and active writing style will be emphasized along with incorporating sound elements and newsmaker interviews.

+#RTV2242, Advanced Video Production
3 hrs., 3 crs.

\$25.00 lab fee

Prerequisite: RTV1241.

Complex and varied production methods will be used to develop multiple video spots and program shots. Graphic and artistic considerations, computer animation, and non-linear editing systems will be introduced to help prepare students for future technological advances in the industry.

+#RTV2249, Advanced Audio Production
3 hrs., 3 crs.

Prerequisite: RTV1240.

Complex program-length shows and features will be planned, performed, and edited covering a variety of radio formats and audio needs. Special emphasis will also be placed on developing each student's portfolio for future employment or acceptance into a four-year academic program.

RTV2272, Media Programming and Promotions
3 hrs., 3 crs.

Overview of strategies and concepts behind modern American media management will be offered. Students will learn relevant programming philosophies, options, and promotional campaigns associated with radio, television, cable, and the internet here and around the world.

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=PSAV course.

*Minimum grade of "C" required.

+RTV2300L, Broadcast News Lab**1 hr., 1 cr.**

Prerequisite: RTV2100 or MMC2100, RTV1240.

Practical writing and production experience with actual local news stories and interviews for use on the college's public radio outlets. Deadlines, style variations, and sound considerations will be emphasized and utilized.

+RTV2460, Electronic Media Practicum**3 hrs., 3 crs.**

Prerequisites: RTV1240, RTV1241, ENC1102.

Study or project related opportunities in the local or national electronic media meant to give real-world work experience to the aspiring broadcast professional.

RADIOGRAPHY**+#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.****\$34.00 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.

Corequisite: RTE1418L.

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 factors 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.

+#RTE1418L, Principles of Radiographic Exposure I**2 hrs., 1 crs.****\$75.00 lab fee**

Prerequisite: RTE1111C.

Corequisite: RTE1418.

Practical application of theory taught in RTE1418. Students perform laboratory experiments to demonstrate concepts taught in lecture.

+#RTE1457, Principles of Radiographic Exposure II**3 hrs., 3 crs.****\$16.00 lab fee**

Prerequisite: RTE1418C.

A continuation of RTE 1418C 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.

+#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.****\$75.00 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 thorax. Students will practice in a "hands on" lab following each lecture.

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**+#RTE1513L, Radiographic Positioning and Procedures
Lab II****30 hrs., 1 cr.****\$75.00 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
1 hrs., 1 crs.**

Prerequisite: RTE1513C.

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.****\$75.00 lab fee**

Prerequisite: RTE153.

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 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.

#RTE1613, Diagnostic Imaging Physics**3 hrs., 3 crs.**

The fundamentals of atomic structure, magnetism, electricity, and radiation physics as they relate to the principles of x-ray production will be presented.

+#RTE1804, Clinical Education I**128 hrs., 2 crs.****\$34.00 lab fee**

Prerequisites: RTE1000C, current certification in

cardiopulmonary resuscitation, Hepatitis B vaccine or waiver, physical exam report on file in program office.

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 RTE 1503C and will perform exams under direct and indirect supervision of a clinical instructor.

+#RTE1814, Clinical Education II**240 hrs., 3 crs.****\$16.00 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 RTE 1503C and RTE1513C and will perform exams under direct and indirect supervision of a clinical instructor.

+#RTE1824, Clinical Education III**256 hrs., 4 crs.****\$16.00 lab fee**

Prerequisites: RTE1814.

Observation 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 RTE 1503C and RTE 1513C. In addition, the student will begin applying the principles taught in RTE 1523C 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: RTE1000C.

The student will study the interactions and effects of ionizing radiation on cells, tissues, and the human body. In

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=PSAV course.

*Minimum grade of "C" required.

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 procedures and 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.

+#RTE2571, Computed Tomography
3 hrs., 3 crs.

This course presents a study of the physical principles and instrumentation of computed tomography. The content of this course includes the historical development of computerized tomography along with patient preparation and care, physical principles related to data acquisition and image formation will be presented along with postprocessing, display, and archival techniques. Artifacts and other factors affecting image quality will be discussed. Content will include clinical applications, procedures, and protocols for CT imaging.

+#RTE2571L, Computed Tomography Clinical Education
240 hrs., 3 crs.
\$31.00 lab fee

Prerequisite: RAD/NMT graduates or imaging professionals with an ARRT or NMTCB credentials
The course provides practical, firsthand experience in scanning procedures and techniques at a supervised clinical site. Theories learned in RTE2571 will be applied. Students will observe, assist, and perform computed tomography under the supervision and guidance of a qualified CT technologist.

+#RTE2584, Mammography
3 hrs., 3 crs.

Prerequisite: ARRT registered in Radiography or ARRT eligible for Radiography
This course is offered to registered radiographers, in good standing with the American Registry of Radiologic Technologists (ARRT) and to radiography students currently enrolled in the radiography program. This course is designed to fulfill the 45 hours of mammography education required by the ARRT to be eligible to apply for the national certification in Mammography. The course covers the anatomy and pathologies of the breast identified through imaging, routine and special imaging projections of the breast to include proper exposure

factors, radiation safety, and the components and procedures of a quality assurance program.

+#RTE2584L, Mammography Clinical Education Lab
60 contact hrs., 2 crs.
\$40.00 lab fee

Prerequisite: ARRT registered in Radiography or ARRT eligible for Radiography.
This course is offered to registered radiographers, in good standing with the American Registry of Radiologic Technologists (ARRT) and to radiography students currently enrolled in the radiography program. This course is designed to apply the concepts and skills learned in RTE2584 in the clinical educational setting. Topics include patient care and education, imaging positioning and procedures and exposure factors. Approximately eight clinical hours weekly are required.

#RTE2762, Sectional Anatomy
3hrs., 3 crs.

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
3 hrs., 3 crs.

Prerequisite: RTE1111C.
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.
\$34.00 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 RTE 1503C, RTE 1513C, and RTE1523C and will perform exams under direct and indirect supervision of a clinical instructor.

+#RTE2844, Clinical Education V
360 hrs., 5 crs.
\$16.00 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

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=PSAV course.

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principles and skills taught in RTE 1503C, RTE 1513C, and RTE 1523C 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.

\$16.00 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.

**Advanced Technical Certificate in
Magnetic Resonance Imaging**

+#RTE2575, Introduction to MRI

3 hrs., 3 crs.

Prerequisite: ARRT or N.M.T.C.B. Certified and approval of program faculty.

This course is designed to provide the student with an introduction to the field of magnetic resonance imaging. This introductory course will include an overview of the history and development of MRI, fundamental principles, equipment, terminology, patient screening and safety, indications, image formation, acquisition, and production.

+#RTE2576, MRI Physics

3 hrs., 3 crs.

Prerequisite: RTE2575.

This course is designed to develop an understanding of MR image acquisition and the hardware used in the acquisition of images. The course provides information in the use and manipulation of the hardware and technical parameters used in the generation of images. Included are a review of safety and special applications such as advanced imaging techniques. This information is useful to enable the student to maximize MR image quality by understanding the fundamentals of MR imaging.

+#RTE2577L, Clinical MRI Education I

180 hrs., 3 crs.

\$21.00 lab fee

Prerequisite: ARRT Certified and approval of program faculty.

This course will allow the student the opportunity to apply the skills necessary for patient and personnel safety, the opportunity to practice skills necessary to obtain high quality MR images regarding the central nervous system, head and neck region, and musculoskeletal system, to objectively alter protocols based on patient anatomy and pathology or physical condition, and to identify image quality and equipment problems and to make appropriate corrections. Clinical education is conducted at a clinical facility after or in conjunction with didactic instruction. Activities include demonstration and observation, after which the student assists in performing the activity. When a satisfactory degree of proficiency is apparent, the student will be allowed to perform the activity under direct supervision. When both the student and instructor are satisfied with the student's proficiency, the student will proceed with performing studies under indirect supervision to gain experience and expertise in MR imaging. This course is presented with a progression in competency levels in the form of clinical performance objectives and competency exams. The student will have access to the facilities, personnel, examinations and educational materials to competently achieve the course objectives.

+#RTE2578L, Clinical MRI Education II

180 hrs., 3 crs.

Prerequisite: RTE2577L.

This course will allow the student the opportunity to apply the skills necessary for patient and personnel safety, the opportunity to practice skills necessary to obtain high quality MR images regarding the cardiovascular, thorax, abdomen, and pelvis, to objectively alter protocols based on patient anatomy and pathology or physical condition, and to identify image quality and equipment problems and to make appropriate corrections. Clinical education is conducted at a clinical facility after or in conjunction with didactic instruction. Activities include demonstration and observation, after which the student assists in performing the activity. When a satisfactory degree of proficiency is apparent, the student will be allowed to perform the activity under direct supervision. When both the student and instructor are satisfied with the student's proficiency, the student will proceed with performing studies under indirect supervision to gain experience and expertise in MR imaging. This course is presented with a progression in competency levels in the form of clinical performance objectives and competency exams. The student will have access to the facilities, personnel, examinations and

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educational materials to competently achieve the course objectives.

**+#RTE2760, MRI Sectional Anatomy & Pathology I
3 hrs., 3 crs.**

Prerequisite: ARRT Certified & approval of program faculty.

This is the first of two courses that provide a study of human anatomy as seen in axial, sagittal, coronal and oblique (as required) planes. Bony, muscular, vascular, organs and soft tissues of the following anatomical regions are studied: central nervous system (brain and spine), structures of the head and neck, and musculoskeletal systems. Focus will cover the common pathologies found in magnetic resonance imaging and their appearance with various imaging protocols. Case studies and images of pathologies will be used to reinforce content and application of material. The knowledge of the disease processes and their signal characteristics on different imaging sequences is studied when relevant for demonstration of anatomy in specific regions. The study of normal anatomy and normal variations and its appearance in planes enables the student to better recognize abnormal conditions and thus make associated changes in imaging requirements to adequately demonstrate the patient's anatomy and pathology. Students learn to recognize the need for additional sequences, changes in protocols, and the need for fast studies based upon the recognition of pathological changes.

**+#RTE2771, MRI Sectional Anatomy and Pathology II
3 hrs., 3 crs.**

Prerequisite: RTE2760.

This second course in sectional anatomy and pathology is an in-depth study of human anatomy as seen in axial, sagittal, and coronal planes. Bony, muscular, vascular, organs, of the following anatomical regions are studied: cardiovascular, thorax, abdomen, and pelvic area/systems. Focus will cover the common pathologies found in magnetic resonance imaging and the appearance with various imaging protocols. Case studies and images of pathologies will be used to reinforce content and application of material. The knowledge of the disease processes and their signal characteristics on different imaging sequences is studied when relevant for demonstration of anatomy in specific regions. The study of normal anatomy and normal variations and its appearance in planes enables the student to better recognize abnormal conditions and thus make associated changes in imaging requirements to adequately demonstrate the patient's anatomy and pathology. Students learn to recognize the need for additional sequences, changes in protocols, and the need for fast studies based upon the recognition of pathological changes.

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 developmental course that does not satisfy General Education requirements or count toward required hours for graduation.)

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 comprehension 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.

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

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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 instruments, 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, comparable-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.)

+#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.)

RELIGION

+REL2000, Introduction to Religion

3 hrs., 3 crs.

Prerequisite: ENC1101 with a minimum grade of "C." (Meets Area II 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 Area II 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 Area II 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.

Prerequisites: ENC1101.

(Meets Area II 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."

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RESPIRATORY THERAPY**#RET1004, Introduction to Science I****1 hr., 1 cr.**

An introduction to basic math and physics used in respiratory therapy. Topics include atmospheric gases, gas physics, fluid dynamics, and gas pressure measurement.

#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.

#RET1024C, Respiratory Care I**8 hrs., 6 crs.****\$45.00 lab fee**

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.

#RET1264C, Respiratory Care II**19 hrs., 9 crs.****\$65.00 lab fee**

Topics will include 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.

#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 corticosteroids 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.

#RET1930, Selected Topics Seminar I**1 hr., 1 cr.**

Provides fundamental understanding of the origin, purpose, indications and contraindications of hyperbaric medicine.

#RET1931, Selected Topics Seminar II**1 hr., 1 cr.**

Covers various sleep disorders identified in the Sleep Disorders Lab, a study of these disorders as well as lead placement, scoring, and options to treatment.

#RET1932, Selected Topics Seminar III**1 hr., 1 cr.**

Basic ECG evaluation and interpretation of arrhythmias will be covered along with 12-lead ECG machine set up and operation.

#RET1933, Selected Topics Seminar IV**1 hr., 1 cr.**

Introduction to venipuncture by laboratory and didactic instruction. Specialty areas may be covered for specific health professions.

#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.

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#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.

#RET2280C, Respiratory Care IV
12 hrs., 7 crs.**\$58.00 lab fee**

This course covers advanced modalities of mechanical ventilation, hemodynamic monitoring, capnography, ventilation waveforms, management of patients in critical care settings, and cardiopulmonary rehabilitation.

#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.

#RET2534C, Respiratory Care V
11 hrs., 5 crs.**\$100.00 lab fee**

Topics of this course will include infant and neonatal assessment, development, congenital anomalies, and infant mechanical ventilation. Neonatal Resuscitation Program Certification will be provided to the student. Computerized Self Assessment Exams will be used extensively to prepare to student for the CRT, RRT, and Clinical Simulation exams.

#RET2613, Management
1 hr., 1 cr.

Topics included in this course are the concepts of planning, organizing, and coordinating a department in a health care setting. Motivation, hiring, counseling, communication, and other concepts of employee management will be covered.

#RET2878C, Respiratory Care III
16 hrs., 5 crs.**\$30.00 lab fee**

This course will introduce the student to the basic concepts of adult mechanical ventilation.

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.)

+#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.

SOCIOLOGY**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.

SYG2000, Principles of Sociology
3 hrs., 3 crs.

This course provides an introduction to basic structure of human society through the study and analysis of group life, the characteristics and variability of culture, the development of the individual's relationships to other individuals and groups.

+SYG2010, Social Problems
3 hrs., 3 crs.

Prerequisite: SYG2000.

The course challenges the students to consider the practical implications, interpretation, and theoretical perception of social problems. It also enables students to gain an understanding of their own backgrounds and opinions about the social forces that shape the problems.

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Students will also be challenged to consider the factors that have shaped their own views of those problems as they live them.

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.

SONOGRAPHY

+#SON1000C, Introduction to Sonography

4 hrs., 3 crs.

\$60.00 lab fee

Prerequisite: Program acceptance.

Corequisite: SON2111, 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.

+#SON1052C, Sonography Anatomy and Pathology

4 hrs., 3 crs.

\$60.00 lab fee

Prerequisite: SON1000C. Corequisite: 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.

+#SON1100C, Principles and Protocols of Sonography Imaging

5 hrs., 4 crs.

\$60.00 lab fee

Prerequisite: SON2113.

Corequisite: SON1170C.

A basic introduction to sonographic scanning of the abdomen, pelvis, vascular systems with laboratory practice and application.

+#SON1111, Abdominal Sonography I

6 hrs., 3 crs.

Prerequisites: SON1100C. 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.

+#SON1112C, Abdominal Sonography II

6 hrs., 3 crs.

Prerequisite: SON1111C.

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 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.

+#SON1121C, OB/GYN Sonography I

6 hrs., 3 crs.

Prerequisite: SON1100C. 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.

+#SON1122C, OB/GYN Sonography II

6 hrs., 3 crs.

Prerequisite: SON1121C. 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: SON1112C, SON1122C, SON1814, SON2175C. Corequisites: SON1824, SON1052C.

The course is an overview emphasizing the sonographic features and characteristics of normal and abnormal anatomy of the superficial structures. The course will also

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integrate clinical and diagnostic procedures of the male pelvis and scrotum; breasts; neck and thyroid.

+#SON1170C, Sonography of the Circulatory System
4 hrs., 3 crs.

Prerequisite: SON2113.

Corequisite: SON1100C.

An introduction to the hemodynamics of the circulatory systems and the sonographic imaging and Doppler assessment of the cardiac and vascular structures.

+#SON1211, Medical Sonography Physics
3 hrs., 3 crs.

Prerequisites: BSC2085, BSC2085L, program acceptance.
 Corequisites: SON1000C.

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.

+#SON1804, Clinical Education I
240 hrs., 2 crs.

\$78.00 lab fee

Prerequisite: SON1100C. Corequisites: SON1111C.

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.

\$40.00 lab fee

Prerequisite: SON1804. Corequisites: SON1112C.

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.

+#SON2113, Cross-Sectional Anatomy
3 hrs., 3 crs.

Prerequisite: BSC2085, BSC2085L, program acceptance.

Corequisite: SON211.

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 studied, which will serve as a linkage to the clinical environment.

+#SON2171C, Introduction to Vascular Sonography
7 hrs., 4 crs.

\$60.00 lab fee

Prerequisite: SON2113.

Corequisite: SON1804.

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.

+#SON2175C, Vascular Sonography
6 hrs., 3 crs.

Prerequisite: SON2171C. 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.

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+#SON2176C, Advanced Vascular Sonography
75 contact hrs., 4 crs.

Prerequisite: SON2175C 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 lab component 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.

+#SON2400C, Echocardiography I
75 contact hrs., 4 crs.

Prerequisite: SON2175C 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 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.

+#SON2401C, Echocardiography II
75 contact hrs., 4 crs.

Prerequisite: 2400C.

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, contrast 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.

+#SON2834, Clinical Education IV
384 hrs., 4 crs.

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: SON1052C.

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.

SPANISH**#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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 Area II 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 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.

SPEECH

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.

+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.

STUDENT LIFE SKILLS

+SLS1201, Personal Development

3 hrs., 3 crs.

Acceptable Corequisites: ENC0025, MAT0018, MAT0028, REA0007, REA0017, REA1930.

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

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=PSAV course.

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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.

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.

SURGICAL FIRST ASSISTING

#*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.

#*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 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.
\$35.00 lab fee

Course provides 185 hours of experience in the field of flexible endoscopy procedure units.

#*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.
\$35.00 lab fee

Course provides 185 hours of experience in the field of endoscopy.

#STS2305, Operative Anatomy and Pathophysiology I
15 hrs., 1 cr.

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.

+##*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, legal and ethical responsibilities of the surgical assistant to include the basic principles of surgical assisting such as instrument usage, incisional approaches, surgical dissection, exposure, tissue handling, hemostasis, retraction, suturing, specimen

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=PSAV course.

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care, drain placement, surgical hazard management, autotransfusion techniques, and wound management. Provides an overview of the perioperative assessment, monitoring, and care of the surgical patient under the direction of the surgeon including potential complications or emergencies. Included topics will address the role of the surgical assistant in preventing wound contamination, the recognition and treatment of wound sepsis, and the use of standard precautions, antibiotic therapy and irrigation in controlling microbial growth.

+#*STS2330L, Principles of Surgical Assisting Lab
40 hrs., 1 cr.

\$318.00 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.

#STS2331L, Surgical Assisting Simulation Lab I
30 hrs., 1 cr.

\$265.00 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.

\$350.00 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 employed, 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.

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.

+#*STS2370, Surgical Assisting Clinical I
210 hrs., 3 crs.

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.

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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

**#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.

**#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 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 preparation, and their experiences in the clinical settings.

**#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 preparation, and their experiences in the clinical 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.

SURGICAL TECHNOLOGY**+*STS0003, Introduction to Surgical Technology
90 hrs., 3 vocational crs.**

Prerequisite: STS0006.

This course introduces the student to the discipline of surgical technique. Introduction to the program and facilities, mental health/personal hygiene, professional ethics, the design of the surgical suite, the health care team, legal issues in patient care, affirmative impact statement, asepsis/infection control, instrument cleaning methods for prevention of infection, sterilization methods for prevention of infection, chemical disinfection, and environmental sanitation.

**+*STS0003L, Introduction to Surgical Technology
Lab/Clinical****60 hrs., 2 vocational crs.****\$70.00 lab fee**

Prerequisite: STS0006.

Lab and clinical practicum to accompany STS 0003, Introduction to Surgical Technology.

**+*STS0006, Orientation to Surgical Services
45 hrs., 1.5 vocational crs.**

Corequisite: STS0006L.

The purpose of this course is to introduce the student to the surgical health care delivery system and provide an overview of the role and responsibility of members of the perioperative health care team. Common illnesses and emergency situations 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 included. Also included are the basic concepts of patient care skills. Topics include infection control techniques, patient and professional communication, proper patient identification, emergency skills, and monitoring patient status.

**+*STS0006L, Orientation to Surgical Services Lab
30 hrs, 1 vocational cr.****\$55.00 lab fee**

Corequisite: STS0006.

Lab and clinical practicum to accompany Orientation to Surgical Services.

**=*STS0009, Terms, Structure, and Function of the Human
Body****75 hrs., 2.5 vocational crs.**

A perioperative anatomy and physiology course designed to provide the student with an understanding of medical terminology, human body structures, and relevant

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=PSAV course.

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physiology. Emphasis is placed on the structure, function, and pathophysiology of the human body's organs and systems.

=STS0030, Microbiology and Infection Control
45 hrs., 1.5 crs.

This course covers the characteristics and activities of microorganisms. It surveys the various microbial groups, especially the bacteria, viruses, and 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 against pathogenic microorganisms, principles of wound healing and infection control. Various significant aspects of infectious disease that occur in humans are also covered.

+=*STS0120, Surgical Specialties I
30 hrs., 1 vocational cr.

Prerequisite: STS0155 and STS0155L.

This course is designed to prepare students for surgical procedures including review of anatomy regarding eye, ear, nose, and throat surgery, 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.

+=*STS0120L, Surgical Specialties I Lab
30 hrs., 1 vocational cr.
\$70.00 lab fee

Prerequisites: STS0155 and STS0155L.

Lab to accompany STS 0120, Surgical Specialties I.

+=*STS0121L, Surgical Specialties II Lab
30 hrs., 1 vocational cr.
\$100.00 lab fee

Prerequisite: STS0120 and STS0120L.

Lab to accompany STS 0121, Surgical Specialties II.

+=*STS0122, Surgical Specialties III
30 hrs., 1 vocational crs.

Prerequisite: STS0121 and STS0121L.

Course is designed to prepare students for surgical procedures including review of anatomy, relevant equipment, supplies, and techniques regarding thoracic surgery, emergency room activities, plastic surgery, and pediatric surgery. Depth of coverage will be determined by the Core Curriculum for Surgical Technologists published by the Association of Surgical Technologists. Course also prepares students for employment in the surgical technologist field.

+=*STS0122L, Surgical Specialties III Lab
30 hrs., 1 vocational cr.

\$225.00 lab fee

Prerequisites: STS0121 and STS0122L.

Lab to accompany STS 0122, Surgical Specialties III.

+=*STS0155, Surgical Techniques and Procedures
90 hrs., 3 vocational crs.

Prerequisite: STS0003 and STS0003L.

Course is designed to introduce students to aseptic technique, infection control practices, duties of the circulator role, duties of the scrub role, suture material/wound closure, surgical needles, staples, instruments, wound healing and homeostasis, drains, dressings, incisions, and relevant terminology, pharmacology, and anesthesia principles to the duties of surgical procedure.

+=*STS0155L, Surgical Techniques and Procedures Lab/Clinical

135 hrs., 4.5 vocational crs.

\$100.00 lab fee

Prerequisites: STS0003 and STS0003L.

Lab and clinical practicum to accompany course STS 0155, Surgical Techniques and Procedures.

+=*STS0255L, Surgical Procedures Clinical I
160 hrs., 5.5 vocational crs.

Prerequisite: STS0155 and STS0155L.

Course is designed to prepare students for surgical procedures including the role of the scrub person including assisting team members to gown/glove, draping the sterile field, medical weights and measures/medicines/dosages, instrument identification and preparation, draping the patient, adhering to aseptic technique, sterilizing, chemical disinfection, preparing supplies and special equipment, passing instruments, supplies, and sutures to the surgeon, cutting sutures, holding retractors, cardiopulmonary resuscitation, instrument, sponge, and sharps count, administrative tasks and preparing operating room tables and lights.

+=*STS0256L, Surgical Procedures Clinical II
160 hrs., 5.5 vocational crs.

Prerequisite: STS0255L.

This course is designed to prepare students for performing preoperative, intra-operative, and postoperative surgical procedures including the role of the scrub person regarding safety practices, work attitudes, professional ethics and legal requirements, reporting, documentation of work areas. Course prepares students to meet the "standard" category regarding level of performance. Depth of coverage and case completion requirements will be determined by the Core Curriculum for Surgical

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=PSAV course.

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Technologists published by the Association of Surgical Technologists.

+=*STS0257L, Surgical Procedures Clinical III
160 hrs., 5.5 vocational crs.

Prerequisite: STS0256L.

Course is designed to prepare students for performing preoperative, intraoperative, and postoperative surgical procedures. Course prepares students to meet "standard" category regarding level of performance. Depth of coverage and case completion requirements will be determined by the Core Curriculum for Surgical Technologists published by the Association of Surgical Technologists.

+=*STS0803, Pharmacology & Anesthesia
45 hrs., 1.5 vocational crs.

Corequisite: STS0803L.

Course is designed to introduce students to most commonly used pharmacological agents in surgery, pre-, post-, and intraoperatively, stressing identification, handling, and usage.

+=*STS0803L, Pharmacology & Anesthesia Lab
30 hrs., 1 vocational cr.
\$35.00 lab fee

Corequisite: STS0803.

Lab to accompany STS0803, Pharmacology and Anesthesia.

=STS0920, Surgical Specialty Topics
30 hrs., 1 vocational cr.

Prerequisite: STS0120.

This course will prepare the student for a position in the operating room including the application process, interview process, portfolio preparation, and an analysis of current knowledge regarding surgical technology core content. Strategies will include practice tests, practical assignments, course review utilizing textbooks and games, and individualized assignments based on the results of practice tests taken.

+*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.

+*STS1302L, Introduction to Surgical Technology Lab
105 hrs., 2 crs.

\$86.00 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, application 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 of 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.

\$110.00 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

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=PSAV course.

*Minimum grade of "C" required.

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.

#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.

\$175.00 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.

#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.

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.

#STS2944, Surgical Technologist Clinical I
205 hrs., 3 crs.

\$175.00 lab fee

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.

\$175.00 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

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=PSAV course.

*Minimum grade of "C" required.

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.

#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.

THEATRE

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.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C."
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.

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0017 with a minimum grade of "C." (Meets Area I 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.

+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.

TPA1290, Technical Lab
1 hr., 1 cr.

Practical experience in the operation of stage equipment.

+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.

TPA2200, Stagecraft
3 hrs., 3 crs.

\$12.00 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.

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 movement 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

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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, improvisation, 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, interpretation, 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).

TRANSPORTATION AND LOGISTICS

+TRA2010, Transportation and Distribution

3 hrs., 3 crs.

Corequisite: TRA2154.

This course explores the role and importance of transportation in the distribution of goods.

+TRA2131, Purchasing and Inventory Management
3 hrs., 3 crs.

Corequisite: TRA2154.

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.

Corequisite: TRA2154.

This course covers warehousing function, facility operations, financial analysis, and productivity improvement and measurement.

WELLNESS AND PHYSICAL EDUCATION

HLP1081, Wellness

3 hrs., 2 crs.

\$4.00 lab fee

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.

HSC1403C, First Aid, Personal Safety, and Basic Life Support Techniques

3 hrs., 3 crs.

\$12.00 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.

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.

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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.

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.****\$2.00 lab fee**

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.

PEM1116, Lifetime Fitness**2 hrs., 1 cr.****\$2.00 lab fee**

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 is on fitness and proper exercise techniques.

PEM1131, Weight Training**2 hrs., 1 cr.****\$2.00 lab fee**

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.

+PEM1953, Cheerleading Workshop**2 hrs., 1 cr.**

Prerequisite: Consent of instructor.

Practice of fundamentals and techniques of cheerleading.

PEM2171, Aerobics**2 hrs., 1 cr.****\$2.00 lab fee**

This course is designed to improve cardiovascular fitness through dance and exercise.

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.

+PEN2114, Lifeguard Training**4 hrs., 2 crs.****\$7.00 lab fee**

Prerequisite: Student must pass a basic water skills test the first class meeting.

This course is designed to help students understand the lifeguard/ employer relationships. The course provides explanations, demonstrations, practice, and review of the rescue skills essential for lifeguards. Fitness swimming will also be included as a component of this course. Upon successful completion, students will be eligible for Red Cross course completion cards in Lifeguard Training, Community First Aid and Safety, CPR for the Professional Rescuer, and Preventing Disease Transmission.

+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.

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.

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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.

PEO1932, Adapted Aquatics

2 hrs., 1 cr.

\$5.00 lab fee

This course is designed to help students with disabilities formulate concepts of safe practice when in an aquatic environment; learn and improve their physical aquatic skills relative to survival, efficient propulsion, and nonact rescue; and provide an opportunity to improve or maintain physical fitness. NOTE: Swimming skills are not a prerequisite.

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.

PET2622, Care and Prevention of Athletic Injuries

3 hrs., 3 crs.

\$12.00 lab fee

This course is designed to provide students with the knowledge and understanding of the principles and techniques involved in the prevention and care of athletic injuries.

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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FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 25 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 (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
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 *Exception to the General Rule for Equivalency*.

For example, a freshman composition skills course is offered by 56 different 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 the community college is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent. **NOTE:** Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester-term system. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

The Course Prefix

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

Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:

Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency

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

- A. Courses not offered by the receiving institution.
- B. For courses at non-regionally 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. College preparatory and vocational preparatory 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 to 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>.

**ADMINISTRATIVE
OFFICERS**

Jim Kerley
President

George Bishop
Vice President, Academic Affairs &
Learning Support

Herman G. Daniels
Chief Information Officer

Stephen N. Dunnivant
Interim Dean, ATC

Melissa Hagan
Chief Development Officer

Cheryl Flax-Hyman
Associate Vice President, Academic
Affairs & Learning Support

Melissa M. Lavender
Vice President, Student Support
and Enrollment Management

Roberta Mackey
Executive Director, Human
Resources

John D. Mercer
Vice President, Administration &
Finance

Stephen M. Nettles
Executive Director, Institutional
Advancement

Jeff J. Stevenson
Chief Economic Development
Officer

Christopher P. Thomes
Executive Director, Marketing &
Communications

FACULTY AND STAFF

Adams, N. Patrice (1988)
Assistant Professor, Mathematics
A.A., Gulf Coast Community College
B.S., Florida State University
M.S., Florida State University

Adessi, Antonio (2008)
**Associate Professor, Drafting
Technology**
M.S., University of Florence

Akerlind, Nils (1993)
Chemistry Laboratory Manager
B.S., University of Florida
M.A., University of Texas

Allan, Kim (2009)
**Project Coordinator, Technology Based
Learning Grant**
B.S., Florida State University

Ammons, John J. (2000)
**Coordinator, Criminal Justice Studies &
Law Enforcement**
A.A., Okaloosa-Walton College
B.A., University of West Florida
M.P.A., University of West Florida
Ed.S., University of West Florida

Armstrong, John C. (1988)
Librarian
A.A., Tallahassee Community College
B.A., Florida State University
M.L.S., Florida State University

Armstrong, Lauren M. (2006)
Coordinator, Financial Aid
A.A., Gulf Coast Community College
B.A., Florida State University
M.S., Florida State University

Ashman, Paul E. (2006)
Assistant Professor, Culinary
A.S., Gulf Coast Community College
A.A., Gulf Coast Community College
CEPC, American Culinary Federation

Austin, Barbara (2011)
Director, Student Affairs
B.A., Purdue University
M.A., Purdue University
M.S., Purdue University
M.S., Kansas State University

Bailey, Judith B. (2002)
Mathematics Learning Manager
B.S., Mississippi College

Bailey, Leigh DeVane (1996)
Counselor, Student Affairs
A.A., Gulf Coast Community College
B.S., University of West Florida
M.S., Troy State University

Baker, Carrie B. (1986)
**Associate Director, Retention &
Student Diversity**
A.A., Chipola Junior College
B.S., Florida A&M University
M.S., Florida A&M University
Ed.S., Florida State University
Ed.D., Florida State University

Balazs, Emily R. (2008)
News Director, WKGC
A.A., Gulf Coast Community College
B.S., Florida State University

Baldwin, Richard B. (1990)
Professor, History
B.A., Baylor University
M.Div., Southwestern Baptist Theological
Seminary
M.A., Florida State University
Ph.D., Florida State University

Barker, Rhonda S. (2000)
Banner Project Coordinator
A.A., Gulf Coast Community College
B.S., University of West Florida
M.B.A., University of West Florida
M.B.E., Emporia State University

Barkley, Sandra (2011)
**Division Chair, Natural Sciences
QEP Executive Director**
B.S., Limestone College
M.A.T., Duke University
Ph.D., Florida State University

Barnett, Michalle T. (2004)
Chair, Language & Literature
B.A., University of Montevallo
M.A., University of Montevallo

Barr, Jim L. (2000)
**Coordinator, Education Partners &
Programs**
B.S., Carson-Newman College
M.A., East Tennessee State College

Baxley, Jr., James P. (1993)
Coordinator, Media Services
A.A., Gulf Coast Community College
B.S., Florida State University
M.S., Troy State University

Bedford, Terri (2003)
Associate Professor, Mathematics
B.A., Huntingdon College
M.S., University of Tennessee

Beitzel, Penni (2004)
Biology Laboratory Manager
B.S., Mississippi State University

Benton, Marsha L. (2002)
English Learning Manager
B.A., Duke University
M.A., Middlebury College, France

Bishop, George (2008)
**Vice President, Academic Affairs &
Learning Support**
B.A., State University of New York at
Buffalo
M.A., State University of New York at
Buffalo
Ph.D., State University of New York at
Buffalo

Blue, Susan N. (1989)
Assistant Professor, English
B.A., University of Florida
M.A., University of Florida

Boshelle, Cynthia (2004)
Counselor, Student Affairs
 B.A., Norwich University
 M.S., Johns Hopkins University

Bottkol, Christine A. (2004)
Coordinator, Nursing
Associate Professor
 A.S., University of Wisconsin Center,
 Marinette
 B.S.N., UWGB-Bellin College of Nursing
 M.S.N., Northern Michigan University
 DNP/RN, Florida State University

Boyd, Melanie (2008)
Associate Professor, Business
 A.A., Gulf Coast Community College
 A.S., Community College of the Air Force
 B.A., Florida State University
 B.S., Florida State University
 M.B.A., Florida State University

Branch, Johnny (2009)
Certified Business Analyst
 B.S., Florida State University
 M.B.A., University of West Florida

Brennan, Patrick E. (2004)
Professor, History
 B.A., University of Florida
 M.A., Arkansas State University
 Ph.D., University of Missouri, Columbia

Brinegar, Jr., Michael G. (1998)
Associate Professor, Mathematics
 A.A., Chipola Junior College
 B.S., University of West Florida
 M.S., Florida State University

Brumm, Steven H. (1990)
Coordinator, Public Safety
 B.A., University of Maryland
 M.A., Ball State University
 M.S., University of Florida

Bruner, Kevin A. (2004)
Learning Manager System Technical Analyst
 B.S., University of West Florida
 M.S., University of West Florida

Brzuska, Deborah A. (2006)
Assistant Professor, Practical Nursing Program
 A.S., Gulf Coast Community College
 B.S.N., Florida State University

Butler, Susan M. (2005)
Chair, Social Sciences Division
 A.A., Tallahassee Community College
 B.S., Florida State University
 M.S., Florida State University
 Ph.D., Florida State University

Bynum, Vicki A. (2006)
Assistant Coordinator, Sonography
 R.T., University of Alabama

Cannon, Lori (2004)
Assistant Coordinator, Student Leadership
 B.S., Florida State University

Cen, Wei (2011)
Librarian
 M.L.S., Southern Connecticut State University

Chance, Loraine H. (2010)
Assistant Coordinator, Financial Aid
 A.A., Gulf Coast Community College
 B.A., Berry College

Chavarria, Jose (2008)
Director, Small Business Development Center
 A.A., Community College of the Airforce
 B.S., Southern Illinois

Chisolm, Glenda (2006)
Learning Manager, TRIO
 B.S., Troy State University
 B.S., Troy State University

Chitwood, Randall T. (2007)
Associate Professor, Nursing
 L.P.N., Trenholm State Technical College
 A.S., Troy State University
 B.S.N., Troy State University
 M.S.N., Troy State University
 DNP/RN, Florida State University

Clark, Amber L. (2010)
Assistant Professor, Language & Literature
 B.A., College of William & Mary
 M.F.A., Queens University

Coker, Amber L. (2010)
Coordinator, Administrative Analyst
 B.S., Florida State University

Cole, Christy (2011)
Assistant Professor, Business & Technology
 B.A., Mississippi State University
 M.B.A., Florida State University

Crawford, Gloria J. (1995)
Chair, Public Safety
 Correctional Officer Certificate, Paul D.
 Camp Community College
 A.A.S., Paul D. Camp Community College
 B.A., St. Leo College

Cumbaa, Melinda (2010)
Coordinator, Physical Therapy Assistant Program
 B.S., Florida International University
 M.S., Florida International University

Daniels, Herman G. (1990)
Chief Information Officer
 A.A., Chipola Junior College
 B.A., University of West Florida
 M.P.A., University of West Florida

Davenport, Loel W. (2008)
Coordinator, Annual Giving & Special Events
 B.A., Georgia State University
 M.A., Georgia State University

Davis, Sherrill A. (2007)
Webmaster
 B.S., Troy State University

Dixon, Anthony R. (2011)
Assistant Professor, Mathematics
 B.S., North Carolina State University
 M.S., Florida State University

Dover, Wendy L. (2007)
Librarian
 A.A., Okaloosa-Walton Community College
 B.A., University of West Florida
 M.L.I.S., Florida State University

Driskill, Stephanie (1998)
Coordinator, Evening & Inventory Services
 B.S.W., Southern Illinois University
 M.S.W., Florida State University

Driscoll, Lori L. (2009)
Director, Library Services
 B.S., University of Florida
 M.S.L.S., Florida State University

Duff, Sara E. (2009)
Librarian
 B.A., University of Florida
 M.S., Florida State University

Dunnivant, Stephen W. (1997)
Interim Dean, ATC
 A.A., Gulf Coast Community College
 B.A., Florida State University
 M.A., George Washington University
 Ed.D., University of West Florida

Dwyer, J. Michael (1996)
Manager, Criminal Justice Selection Center
 Specialized Law Enforcement Certificate, Columbus State University
 A.S., Columbus State University
 B.S., Columbus State University
 M.S.C.J., Troy State University
 J.D., Woodrow Wilson College of Law

Dye, Dana D. (1995)
Associate Professor, Business
 A.A., Gulf Coast Community College
 B.S., Florida State University
 M.S.M., Troy State University

- Eavey, Richard (Dean) 2001**
Associate Professor, Technology
B.S., Indiana State University
M.S., Indiana State University
- Eichler, Lynn E. (2010)**
Certified Business Analyst
M.B.A., University of South Dakota
- Ellis, Fledia P. (1990)**
Chair, Natural Sciences
Associate Professor, Biology
A.B., Talladega College
M.S., Alabama A&M University
- Ellis, Vicky D. (1986)**
Associate Professor, Chemistry
B.S., Mars Hill College
M.S., University of New Mexico
- Erben, Julia E. (2006)**
Associate Professor, Reading/English
B.A., Valparaiso University
M.A., University of Lancaster
- Finley, Daniel L. (1992)**
Assistant Coordinator, Emergency
Medical Services Program
Professor
B.S.Ed., Southwest Texas State
University
M.Ed., Texas Tech University
Ph.D., University of Texas at Austin
- Fistein, David (2010)**
Assistant Professor, Political Science
B.A., SUNY College at Cortland
M.S., Troy University
Ph.D., University Missouri
- Fitzhugh, Linda M. (1995)**
Professor, Biology
B.S., State University of New York at
Buffalo
M.S., North Carolina State University
Ph.D., Florida State University
- Flax-Hyman, Cheryl L. (1985)**
Associate Vice President, Academic
Affairs
B.A., University of Maryland
M.S., Florida State University
Ed.D., University of West Florida
- Foster, John M. (2011)**
Assistant Professor, Biology
B.A., The University of West Florida
M.E., Auburn University
P.h.D., The University of Southern
Mississippi
- Fowler, Donna R. (2005)**
Associate Professor, Nursing
A.A.N., Southeast Missouri State
University
B.S.N., University of Phoenix
- M.S.N., Jacksonville State University
DNP/RN, Florida State University
- Gammons, Rowena (2006)**
Financial Aid Specialist
B.S., Florida State University
- Garman, Arifa (2002)**
Interim Director, E-Learning
B.A., University of Calgary
M.S., Florida State University
Ed.S., University of West Florida
Ed.D., University of West Florida
- Garner, Rusty C. (1998)**
Coordinator, Technical Services &
Support
B.M., University of North Texas
M.M., New England Conservatory of
Music
- Garrett, Guy W. (2010)**
Assistant Professor & Program
Manager, Network Services Technology
A.B.J., University of Georgia
M.B.A., University of Phoenix
M.S., University of West Florida
- Garrett, Wendi (2011)**
Assistant Coordinator, Recruitment
B.S.B., University of Phoenix
- Gattis, Michael A. (2008)**
Assistant Professor, History and
Political Science
B.A., Jacksonville State University
M.A., Jacksonville State University
- Gibson, Jennifer N. (2012)**
Assistant Professor, Psychology
B.S., Pennsylvania State University
M.A., Duke University
Ph.D., University of North Carolina at
Chapel Hill
- Godfrey, Melanie J. (Jane) (2006)**
Assistant Coordinator, Veteran Services
B.A., Wayland Baptist University
M.A., Wayland Baptist University
- Goines, Erika (2010)**
Assistant Professor
B.S., Florida State University
M.S., Florida State University
Ed.S., University West Florida
- Gonshor, Lee G. (2005)**
Professor, Biology
B.S.O.E., College of William and Mary
M.D., Pennsylvania State University
- Goodman, Karon P. (2012)**
Assistant Coordinator, Marketing &
Communications
B.S., University of Montevallo
- Green, Alison J. (2011)**
Assistant Professor, Business &
Technology
Ph.D., The University of New Mexico
- Green, Laura L. (2010)**
Coordinator, Marketing &
Communications
B.S., University of Florida
- Gribble, Barbara Y. (1987)**
Professor, English
B.S., Memphis State University
M.A., Memphis State University
Ph.D., University of Tennessee
- Guilford, Kimbally (1999)**
Assistant Coordinator, Dental Hygiene
Assistant Professor
A.S., Certificate Pensacola Junior College
A.S., Gulf Coast Community College
B.S., Troy State University
M.S., Troy University
- Gunning, Laura H. (1998)**
Chair, Health Sciences
B.S., University of South Alabama
M.H.S., University of Florida
Ed.D., University of West Florida
- Hagan, Melissa R. (2009)**
Chief Development Officer
B.S., Mississippi University for Women
M.A., University of Oklahoma
- Hair, Wilson L. (1998)**
Coordinator, Workforce Development
- Hall, Enorris (1999)**
Senior Programmer Analyst
A.A., Gulf Coast Community College
B.S., Florida State University
- Hamilton, Jennifer L. (2000)**
Associate Professor, Religion & History
B.A., Auburn University
M.A., University of West Florida
- Hannah, Glenda J. (2012)**
Assistant Professor, Nursing
B.S.N., The University of Alabama in
Huntsville
M.S.N., University of Phoenix
- Hapner, Leslie C. (1996)**
Director, Budget & Student Financial
Services
A.A., Chipola Junior College
B.S., Troy State University
M.B.A., Florida State University
- Hardee, Faye H. (1996)**
Assistant Benefits Coordinator
A.S., North Florida Junior College

Harris, Clifford L. (2004)
Professor, Physics
 B.S., University of Nevada
 Ph.D., University of Nevada

Harris, J. Lloyd (1998)
Associate Professor, Mathematics
 B.S., Piedmont College
 M.Ed., University of Georgia

Harrison, Kimberly (2003)
Coordinator, Industry, Sustainability & Technical Training
 A.A., Gulf Coast Community College
 B.S., Florida State University

Harvey, Norris O. (1998)
Associate Professor, Mathematics
 B.S., Fayetteville State University
 M.S., Jackson State University

Head, Connie S. (2003)
Librarian
 A.A., Gulf Coast Community College
 B.S., Florida State University
 M.L.I.S., Florida State University

Hedden, Jason D. (2008)
Associate Professor, Visual & Performing Arts
 A.A., Gulf Coast Community College
 B.A., University of South Florida
 M.F.A., Ohio State University

Hendrix, Dawne E. (2010)
English Learning Manager
 B.A., University of Florida
 M.A., University of Florida

Herndon, Matthew B. (2008)
Associate Professor, Economics
 B.A., University of California
 M.A., University of Oklahoma

Hooks, Katherine E. (2012)
Coordinator, Business, Training & Marketing
 A.S., International Academy of Design & Technology
 A.S., Hillisborough Community College
 B.A., Florida Southern College

Hoyt, Kimberly (2010)
Coordinator, Cooperative Education
 B.A., National-Louis University
 M.S., Troy State University

Hudson, Daniel W. (2010)
Assistant Professor, Philosophy & Religion
 B.A., Huntingdon College
 M.D.V., Emory University
 M.S., Troy University

Hudson, Merissa E. (1997)
Coordinator, Transcript Evaluations
 A.A., Gulf Coast Community College
 B.S., Florida State University
 M.S.A., University of West Florida

Hudson, Sharon S. (2002)
Associate Professor, Mathematics
 B.A., Huntingdon College
 M.S., Georgia Institute of Technology

Jackson Jr., Raymond (1994)
Coordinator, Fire Science Technology
 A.A., Gulf Coast Community College
 B.A., Western Illinois University

Jamison, Michelle (2009)
Career Manager, Workforce Center
 B.B.A., Savannah State University

Jimenez-Orozco, Deicy G. (2009)
Assistant Professor, Spanish
 B.A., Universidad del Atlantico (Colombia)
 M.A., University of Arkansas
 Ph.D., University of Florida

Joyner, Jonathan C. (2012)
Assistant Coordinator, Criminal Justice
 B.S., Florida State University

Justice, Laura (2008)
Coordinator, Dental Programs
Associate Professor
 A.A.S., Lexington Community College
 B.H.S., University of Kentucky
 M.Ed., University of Kentucky

Kandler, Michael A. (2005)
Head Coach Men's Baseball
 B.S., University of Wisconsin, Whitewater
 M.S., University of Wisconsin, Whitewater

Keene, Wes R. (2005)
Associate Professor, Psychology
 B.A., Averett University
 M.S., Virginia Polytechnic Institute and State University

Keeton, Lisa Y. (2002)
Coordinator, Academic Tutorial Services
 B.A., Virginia Polytechnic Institute and State University

Kerley, Jim (2007)
President
 B.S., Tennessee Tech University
 M.A.T., The Citadel
 Ph.D., Florida State University

Killion, Bradley E. (1987)
Coordinator, Respiratory Therapy
Assistant Professor
 A.A.S., University of Kentucky
 B.S., University of West Florida

Kirkman, Scott A. (2009)
Assistant Professor, Visual & Performing Arts
 B.M., Millikin University
 M.A., Florida Atlantic University

Kirksey, Jerrie (2008)
Associate Professor, Nursing
 B.S.N., Mississippi College
 M.S.N., University of South Alabama

Kizziah, Kendra B. (2001)
Counselor
 A.A., Gulf Coast Community College
 B.S.W., Florida State University
 M.S.W., Florida State University

Kleinschmidt, Carl E. (2002)
Coordinator, Aquatics
 A.A., Gulf Coast Community College
 B.S., Florida State University
 M.S., Florida State University

Knauss, Parry J. (1996)
Associate Professor, Nursing
 A.A., St. Petersburg Junior College
 B.S.N., Florida State University
 M.A. Nursing, Columbia University

Krutchek, Kristi (2008)
Math Learning Manager
 A.A., Gulf Coast community College
 B.S., University of West Florida
 B.A., University of West Florida

Kuhn, Sabrina L. (2005)
Assistant Professor, Nutrition
 B.S.H.E., University of North Carolina at Greensboro
 M.M.S., Emory University School of Medicine

Lareaux, Yvette J. (2010)
Specialist, Financial Aid
 B.S., Southern New Hampshire University

Lavender, M. Melissa (1996)
Vice President, Student Affairs
 B.A., University of Mississippi
 B.S., University of Southern Mississippi
 M.Ed., University of Mississippi
 Ed. D., Florida State University

Lawson, Tonia (2006)
Associate Director, Procurement
 A.A., Okaloosa Community College
 B.S., Troy State University
 M.S., Troy State University

- LeClair, Marianne M. (2007)**
Associate Director, Resource Development
 A.A., Montgomery College
 B.A., University of Maryland
 M.S., Troy State University
- Leonard, Ann (2011)**
Director, Career & Technical Education
 B.S., University of Tennessee
 M.S., East Tennessee University
- Lock, Sherrie L. (2001)**
Coordinator, Health & Environmental Continuing Education
 A.A., Gulf Coast Community College
 B.S., Florida State University
 M.S., Troy University
- Luppino, Lori (2004)**
Director, Community Education
 B.S., Mars Hill College
- Lusk, Leo A. (1998)**
Associate Professor, Mathematics
 A.A.S., Jefferson Community College
 B.S., Franciscan University of Steubenville
 M.S., West Virginia University
- Mackey, Roberta (2011)**
Executive Director, Human Resources
 B.S., Wright State University
 M.P.A., Wright State University
- Main, Patrick T. (2004)**
Network Systems Analyst
 B.M.E., Georgia Tech
- Marinuzzi, Tammy (2006)**
Associate Professor, Art
 B.F.A., University of New Mexico
 M.F.A., University of Florida
- Martin, Peggy P. (1995)**
Director, Military Education
 A.A., Gulf Coast Community College
 B.S., Florida State University
 M.S., Troy State University
- May, Gregory S. (1994)**
Coordinator, Public Safety
 A.A., Gulf Coast Community College
 B.S., LaSalle University
 B.S., Barry University
- McKinnie, Betty E. (1998)**
Assistant Professor, English
 A.A., Chipola Junior College
 B.A., University of West Florida
 M.A., University of West Florida
- McNaron, Mary Elizabeth Libby (2002)**
Coordinator, Surgical Technology
Associate Professor
 A.S.N., George Wallace State
- Community College
 B.S.N., Graceland College
 M.S., Troy State University
- McQuagge, Kelly A. (2010)**
Coordinator, Grant Accounting
 B.S., Florida State
- Mercer, John D. (1996)**
Vice President, Administration & Finance
 A.A., Gulf Coast Community College
 B.S., University of West Florida
 B.A., University of West Florida
 M.B.A., Florida State University
- Mills, Joseph L. (1996)**
Comptroller
 B.S., Oklahoma State University
 M.A.C.C., University of Oklahoma
 C.P.A., State of Oklahoma
- Milner, Sharon A. (1999)**
Assistant Coordinator, Practical Nursing Program
Assistant Professor
 A.S., Mississippi County Community College
 A.A., Gulf Coast Community College
 B.S.N., Florida State University
- Mitchell, Jason P. (2004)**
Professor, English
 B.A., University of Montevallo
 M.A., University of Alabama
 Ph.D., University of Mississippi
- Moore, Melissa (2003)**
Assistant Professor, Biology
 B.S., University of Alabama
 M.S., University of Oklahoma
- Morrison, Bruce G. (2010)**
Computer Programmer Specialist
 A.A., Gulf Coast Community College
 B.S., University of West Florida
- Murks, Denise C. (1990)**
Coordinator, Returning Students Program
 B.S., University of North Alabama
- Nettles, Stephen M. (2008)**
Executive Director, Institutional Effectiveness
 A.A., Oxford College of Emory University
 B.A., Emory University
 M.S., Florida State University
 Ph.D., Florida State University
- Newberry, Robin (2005)**
Student Support Specialist
 B.S., Barry University
- Nielsen, Doris I. (2000)**
Coordinator, Institutional Research
 A.A.S., College of the Air Force
 A.A., Gulf Coast Community College
 B.S., Florida State University
 M.B.A., Florida State University
- O'Bourke, Rosemarie (1991)**
Chair, Visual & Performing Arts
 A.A., St. Petersburg Junior College
 B.M.E., University of Florida
 M.Ed., University of Florida
 M.A., St. Louis University
- Owens, Gene (2010)**
Assistant Professor, Mathematics
 B.S., University of Florida
 M.S., University of West Florida
- Painter, Susan M. (1993)**
Head Coach, Women's Softball
 B.S., Florida State University
 M.S., Georgia State University
- Palmieri, Charles J. (2005)**
Assistant Manager, Tech Support
 A.S., Gulf Coast Community College
 B.S., University of West Florida
- Parham, Karen D. (2001)**
Coordinator, Testing Student Services
 A.A., Saint Leo University
 B.A., Saint Leo University
 B.S., Alabama State University
 M.S., Alabama State University
- Parker, Adrienne N. (2007)**
Coordinator, Auxiliary Services
 B.S., Hampton University
- Payne, Wendy L. (2006)**
Associate Professor, Business & Technology
 B.S., California State Polytechnic University
 M.S., University of Maryland
- Pazman, Mikki A. (2012)**
Financial Aid Specialist
 B.A., Moravian college
 M.A., University of Phoenix
- Peacock, Brenton E. (2008)**
Associate Director, Veterans' Business Outreach Center
 A.A., Gulf Coast Community College
 B.S., Florida State University
- Peltz, Rick L. (2004)**
Systems Support Analyst
 A.S., Gulf Coast Community College

Phelps, Marko L. (1988)**Manager, Network Systems**

A.S., Gulf Coast Community College
A.S., Vernon Regional Junior College
B.S., Troy University

Phillips, John P. (1998)**Professor, Education**

A.A., Santa Fe Community College
B.S., Florida State University
M.S., Florida State University
Ed.S., Florida State University
Ph.D., Florida State University

Pilot, Anthony (Tony) 2010**Coordinator, College Reach Out Program**

B.S., University of Alabama

Pinero, Melissa S. (2009)**Coordinator, TRIO**

B.A., Fort Hays State University
M.A., Mississippi State University

Porter, Katrina (2007)**Assistant Coordinator, Student Event Planning**

B.S., Florida State University

Poston, Elaine S. (2008)**English Learning Manager**

B.A., Western Kentucky University
M.A., Western Kentucky University

Powell, Jay C. (2007)**Head Coach, Men's Basketball**

B.A., Murray State University

Prather, Benjamin (2006)**Mathematics Learning Manager**

A.A., Gulf Coast Community College
B.S., University of Utah

Pridgen, Hadley L. (2008)**Associate Professor, Mathematics**

A.A., Gulf Coast Community College
B.S., University of West Florida
M.S., University of West Florida
Ed.S., Florida State University

Prim, Laura A. (2010)**Technical Specialist**

B.A., University of Alabama
M.F.A., University of Virginia

Pummill, Joel (Harley) (1997)**Executive Producer, Coordinator, WKGC Broadcasting****Randall, Diane M. (2005)****Assistant Coordinator, Disability Support Services**

A.A., Gulf Coast Community College
B.S., Florida State University
M.S., Florida State University

Redd, Billy J. (2002)**Instructor, Culinary**

A.S., Gulf Coast Community College
C.E.C., American Culinary Federation

Reese, Katrina B. (2007)**Assistant Coordinator, Respiratory Therapy Program**

Assistant Professor
C.R.T.T., Gulf Coast Community College
A.S., Tallahassee Community College
A.A., Tallahassee Community College
B.S., University of Central Florida

Renfro, Brian C. (2007)**Programmer/Analyst**

A.A., Gulf Coast Community College
B.S., University of West Florida

Reynolds, Angelia S. (1990)**Chair, Mathematics Division**

B.S., Alabama State University
M.S., Alabama State University

Rising, Leah L. (2008)**Assistant Professor, Health Sciences**

B.S., University of Louisville
M.S., University of Kentucky

Ruder, Martha C. (1996)**Assistant Coordinator, Nursing****Associate Professor**

B.S.N., University of Maryland
M.S.N., University of Maryland

Salter, Teresa E. (2006)**Assistant Academic Program****Coordinator, EPI**

A.A., Enterprise-Ozark Community College
B.S., Troy State University
M.S., Troy State University

Sauls, Tonitta W. (2011)**Assistant Professor, Business & Technology**

B.S., Troy University
M.S., Troy University

Schenck, Patricia A. (2006)**Academic Program Coordinator, EPI****Associate Professor**

B.S., Louisiana Tech University
M.S., Louisiana Tech University

Schilling, Carol F. (2011)**Assistant Professor, Language & Literature**

B.A., Indiana University
M.A., University of Indianapolis

Schmidt, Benjamin (2011)**Coordinator, Student Financial Services**

A.A., Gulf Coast Community College
B.A., Florida State University

Scovel, Mary P. (1996)**Coordinator, Orientation & Advising**

B.S., University of Florida
M.Ed., University of West Florida

Sewell, Tracy (2010)**Assistant Professor, Business & Technology**

A.A., Gulf Coast Community College
B.S., Florida State University
M.A., Florida State University

Sheetz, James H. (2009)**Assistant Professor, Natural Sciences**

B.A., Howard College
Ph.D., University of Alabama

Shepard, Jamie C. (2012)**Project Coordinator, Community Based****Job Training Grant**

B.A., Agnes Scott College
M.S., Florida State University

Simmons, Brittney (2010)**Community Recruiter**

B.S., Florida A & M University

Simmons, Valerie (2009)**Associate Director, Small Business Development Center**

B.S., Edison State

Skeete, Vernetta D. (2012)**Head Coach, Women's Basketball**

A.A., Gulf Coast State College
B.A., Alcorn State University

Smith, Elizabeth A. (2006)**Aquatics Specialist**

A.A., Gulf Coast Community College
B.S., Florida State University

Smith, Henry M. (2007)**Associate Professor, English**

B.S., University of Montevallo
M.T.S., Samford University
M.A., University of Montevallo

Smitherman, Angela (2005)**Coordinator, Human Resources**

B.S., Park University
M.A., Webster University

Stevenson, Jeff, J. (2001)**Chief Economic Development Officer**

B.S., University of Iowa
M.A., University of Iowa
Ph.D., University of Iowa

Stewart, Miranda (2010)**Instructor, Dental Assisting**

A.S., Gulf Coast Community College
B.S., Florida State University

- Storck, Dennis D. (1999)**
Superintendent, Maintenance & Operations
 B.S., Miami University
 M.B.A., Miami University
 M.A.S., Embry Riddle Aeronautical University
- Strasburger-Miller, Carol (2010)**
Remediator/Lab Coordinator-Simulator Instructor
 B.S.N. Purdue University
- Strawser, Melissa (2011)**
Coordinator, Business Solutions
 B.S., Christopher Newport University
 B.A., Christopher Newport University
 M.S., Embry-Riddle Aeronautical University
- Stylianou, Barbara M. (1998)**
Mathematics Learning Manager
 B.S., University of Warsaw
 M.S., University of Warsaw
- Thomes, Christopher P. (2005)**
Executive Director, Marketing & Communications
 B.S., University of Florida
 M.S., Florida State University
- Tidwell, R. Jerome (1984)**
Associate Professor, Computer Science
 A.A., Enterprise State Junior College
 A.A.S., Enterprise State Junior College
 B.S., University of West Florida
 M.S., Florida State University
- Todd, Sharon O. (1988)**
Director, Enrollment Services
 A.A., Gulf Coast Community College
 B.S., Florida State University
 M.S., Florida State University
- Trentanelli, Elizabeth (2004)**
Professor, Political Science
 A.A., Polk Community College
 B.A., Florida State University
 M.P.A., University of South Florida
- Trussell, Walter (Walt) (2011)**
Assistant Manager, Network Support
 B.S.E., Auburn University
 M.S., Columbus State University
- Vale-Feliciano (Manrique), Vanessa (2012)**
Assistant Professor, Language & Literature
 B.A., Pontifical Catholic University of Puerto Rico
 M.A., TUI University
- Van Dalen, Linda B. (1982)**
Coordinator, Disability Support Services
 A.S., Ricks College
 B.S., Brigham Young University
 M.S., Virginia Commonwealth University
- VanDerSchaaf, DeeAnn (2004)**
Coordinator, Radiography Program Assistant Professor
 A.A.S., Houston Community College
 B.S.R.S., Midwestern State University
 M.S., Troy University
- VanNette, Tara (2006)**
Associate Professor, Philosophy and Religion
 B.A., Heidelberg College
 M.A., Cleveland State University
- Wall, Mary E. (1994)**
Manager, Driving/Firing Range
 A.A., North Florida Junior College
 B.S., Florida State University
- Wallace, Arnold Lynn (1989)**
Associate Professor, Language & Literature
 B.A., Pennsylvania State University
 M.A., Pennsylvania State University
- Walls, Alice F. (2004)**
Coordinator, Enrollment Services
 A.A.S., Eastfield Community College
 B.A., Warner Southern College
 M.S., University of West Florida
- Walsingham, Kelli S. (2006)**
Assistant Coordinator, Physical Therapist Assistant Program Assistant Professor
 A.A., Gulf Coast Community College
 A.S., Gulf Coast Community College
 B.S., Troy University
- Warren, Morissa A. (Mo) (2005)**
Transcript Evaluation Specialist
 A.A., Gulf Coast Community College
- Webb, Jamieson D. (2003)**
Associate Professor, Physical Science
 B.S., Auburn University
 M.S., Auburn University
- Wells, Douglas A. (2001)**
Associate Professor, English
 A.A., Florida Community College at Jacksonville
 B.A., University of South Florida
 M.A., University of South Florida
- Wenzel, Jason B. (2012)**
Assistant Professor, Sociology
 B.A., University of Central Florida
 M.A., University of Central Florida
- West, Barbara E. (1998)**
Passport Program Specialist
 B.S.N., Virginia Commonwealth University
 M.B.A., Florida State University
- Westlake, Christopher J. (2000)**
Director, Financial Aid
 B.S., Southeast Missouri State University
 M.B.A., Florida State University
- Wheeler, Donna G. (1991)**
Associate Professor, Nursing
 A.S., Gulf Coast Community College
 A.A., Gulf Coast Community College
 B.S.N., Florida State University
 M.S.N., Florida State University
- Williams, A. Scott (2003)**
Coordinator, Emergency Medical Services Program Assistant Professor
 A.S., Pensacola Junior College
 B.S., University of West Florida
- Winther, Nicoleila (2003)**
Coordinator, Career Development Center
 B.A., Florida State University
 M.S., Troy University
- Wise, Stephen C. (1998)**
Assistant Coordinator, Health Sciences Admissions
 B.S., Troy State University
- Wolfe, Gregory C. (1991)**
Chair, Wellness & 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
- 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
- Yeakel, Agnes (Aggie) (2010)**
E-Learning Advisor
 B.S. Ed., Illinois State University
 M.A., University Evansville
- Zimmerman, Li A. (2008)**
Web Programmer
 B.S., Jacksonville State University
 M.S., University of Kentucky

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

Brengle, 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, Sandra 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**Akins, Debra B. (2000)**

Data Analyst
 A.A., Gulf Coast State College

Allman, Pam A. (2012)

Executive Administrative Assistant
 A.A., Okaloosa Walton Jr. College
 B.S., University of West Florida

Ash, Candy S. (1998)

Senior Administrative Secretary
 B.S., Florida State University

Backus, Ursula (2011)

Financial Aid Assistant
 B.S., Florida State University

Balilo, Aryn R. (2010)

Intake Orientation Assistant

Banks, Melissa A. (2006)

Senior Bookkeeper, Payroll
 A.A., Chipola Jr. College

Baskevic, Sharon M. (2011)

Senior Administrative Assistant
 A.A., State University of New York

Beaver, Teresa (2011)

WKGC membership & Resource Development Associate
 B.S., Florida State University

Bennett, Judith M. (Judy) (2011)

Senior Cashier

Bland, Catherine (2011)

Senior Administrative Assistant

Boswell, Christopher S. (2011)

Heating/Air Conditioning Tech

Bowen, Marilyn (2009)

Senior Administrative Assistant

Brewer, Carol A. (2006)

Senior Administrative Assistant

Brooks, Judi (2010)

Certification Officer
 A.A., Gulf Coast State College

Brown, Darby H. (2000)

Senior Administrative Assistant

Brown, Harold (2000)

Custodian

Broxson, Glenda P. (1996)

Administrative Assistant
 A.A., Gulf Coast Community College
 A.S., Gulf Coast Community College

Burkett, Brenda S. (1999)

Administrative Assistant

Cain, Larry L. (2002)

Facilities Maintenance, Remote Campus

Carter, Curtis J. (1986)

Producer/Specialized Programs
 A.S., Gulf Coast Community College

Cassani, Tamara M. (2000)

Executive Administrative Assistant
 A.A., Gulf Coast Community College

Cato, Linda B. (2003)

Administrative Assistant

Chan, Gerard D. (1992)

Inventory Manager

Chappelle, Geraldine (1999)

Administrative Assistant

Chrencik, Julia C. (2011)

Senior Administrative Assistant
 B.S., Florida State University

Cline, Barbara (2007)

Senior Administrative Assistant
 A.A., Gulf Coast State College

Collins, George J. (1989)

Custodian

Costa, Don A. (1987)

Facilities Maintenance

Dallas, Whitney (2009)

Senior Administrative Assistant
 A.A., Gulf Coast Community College

Darko, Michelle (2003)

Senior Administrative Assistant

Dennis, Maureen (2006)

Groundskeeper

Duhon, Daniel W. (2005)

Computer Lab Technician
 B.S., University of West Florida

Edwards, Carla R. (2006)

Administrative Assistant

Everett, Tyrone (2005)

Facilities Maintenance, Remote Campus

Felice, Paul (2008)

Groundskeeper

Fraioli, Tiffany (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)

Bookstore
 A.A., Gulf Coast Community College
 B.S., Florida State University
 M.S., Troy University

Garcia, James R. (2005)

Lead Custodian

Gilbert, Barbara A. (1992)

Senior Administrative Assistant

Givens, Lee F. (2005)

Custodian

Good, Brenda L. (1994)

Bookkeeper

Green, Angelia (2010)

Custodian

Greig, James E. (2010)

Custodian, Remote Campus
 A.S., Massasoit Community College

Hall, Glynn B. (2005)

Computer Network Technician

Hansen, Gale G. (2005)

Senior Clerk Typist
 A.S., Gulf Coast Community College

Hart, Donald E. (2006)

Custodian

Hillard, Kara (2009)

Testing Assistant
 A.A., Gulf Coast Community College

Hillard, Randal J. (1999)

Computer Network Technician
 B.S., South Dakota State University
 M.S., University of Southern California

Horton, Alice J. (AJ) (2011) Network Support Technician	McBride, Sharon (2010) Testing Assistant B.S., Troy State University	Rice, Ronald W. (2001) Maintenance Mechanic, Remote Campus
Hughes, Thomas M. (2005) Media Services Technician	McClinton, Horace (1999) Custodian	Rissmann, Mark A. (1999) Maintenance Mechanic I
Hunt, Marissa L. (2010) Intake Orientation Assistant A.A., Saint Catherine College	McCorvey, Michael (1976) Custodian	Roldan, Helen M. (1995) Senior Administrative Assistant A.S., Gulf Coast Community College
Jenkins, Hilary A. (1996) Maintenance Mechanic III A.S., Gulf Coast Community College	McCullough, Larry (2008) Custodian	Roper, Leah (2008) Senior Library Assistant A.A., Gulf Coast Community College B.S., Clemson University M.B.A., Ashford University
Joerger, Jeanette (2011) Senior Administrative Assistant A.S., Georgia Military College	McDougall, James C. (Jim) (2010) Grounds /Maintenance Mechanic	Rosensweig, Carol (Heidi) (2010) Senior Administrative Assistant B.S., Clemson University
Kelly, Elizabeth A. (2002) Senior Administrative Assistant A.A., Gulf Coast State College	McNamara, Robin B. (2004) Computer Lab Technician	Sheffield, Darren E. (2006) Custodian
Kight, Christina L. (1998) Human Resources Assistant	McNear, Latoria O. (1998) Custodian	Sherfield, Christine (2007) Custodian
Krampota, Tom J. (1992) Custodian	Miller, Loretha P. (2010) Administrative Assistant	Sherman, Richard (2010) Computer Operator A.A., Art Institute of Atlanta
Krutchek, Kimberly A. (2002) Media Services Technician	Mitchell, Marcia J. (2001) Executive Administrative Assistant A.A., Everett Community College	Smith, Camille (Cami) (2010) Senior Administrative Assistant B.S., Florida State University
Kuczenski, Jacqueline L. (1984) Senior Administrative Assistant A.A., Thornton Community College	Newell, Donna (2008) Senior Administrative Assistant A.A., Gulf Coast State College	Smith, James F. (2010) Testing Assistant B.S., University of North Carolina
LaCasse, Colette (1999) Senior Administrative Assistant	Packard, Linda G. (2002) Custodian	Spencer, Scott T. (2003) Senior Administrative Assistant
Lamberson, John M. (2000) Senior Administrative Assistant	Peterson, Donna W. (2006) Executive Administrative Assistant	Stanley, Susan D. (2001) Human Resources Assistant
Lewis, Melannie F. (2011) Senior Bookkeeper	Phillips, Janice L. (1974) Senior Library Assistant	Striplin, Roy B. (2000) Maintenance Mechanic II
Lindman, Lisa I. (2001) Executive Administrative Assistant A.A., Gulf Coast Community College	Pierson, Jennifer (2008) Bookstore B.S., University of Phoenix	Sullins, Jackie J. (2009) Receiving & Inventory Clerk
Long, James R. (1985) Maintenance Mechanic II	Pittman, Edgar L. (1979) Lead Groundskeeper	Takahashi, George H. (1994) Maintenance Mechanic III
Long, Kelley R. (2001) Intake Orientation Assistant	Planey, Laura A. (2010) Bookkeeper, Construction	Terryn, Dorothy A. (Dottie) (1986) Senior Bookkeeper, Accounts Payable A.A., Gulf Coast Community College B.S., Florida State University
Long, Margaret A. (1990) Administrative Assistant	Poomarat, Somboon T. (2007) Groundskeeper	Thomasson, Barbara (1994) Senior Administrative Assistant
Lowder, LaTangela (Faye) 2001 Testing Assistant A.S., Gulf Coast State College	Powell, Brandi (2009) Senior Administrative Assistant A.A., Gulf Coast Community College	Todd, Ernest R. (2007) Groundskeeper
Maddox, Wanda (2010) Executive Administrative Assistant	Pringle, Debra L. (1999) Receptionist A.S., Enterprise State Jr. College	
McAfee, Nancy K. (2006) Records & Credentialing Assistant	Ramsey, Rebecca L. (2008) Financial Aid Assistant I A.A., Quinsigamond Community College	

Varner, Arnold C. (1990)

Heating /Air Conditioning Technician

Varner, Jaymar (2008)

Multimedia Support Technician

A.A., Gulf Coast Community College

Varnum, Jerry A. (1996)

Computer Operator

A.S., Gulf Coast Community College

Vaughn, Jackie A. (1994)

Administrative Assistant

Wagner, Patricia (2010)

Administrative Assistant

B.A., Fontbonne College

M.Ed., Loyola University

Walker, Shirley A. (1998)

Custodian

Wall, Catherine J. (2007)

Administrative Assistant

Walls, Sean T. (2010)

Senior Administrative Assistant

A.A., Gulf Coast Community College

B.S., Troy State University

Washington, Brenda S. (1998)

Senior Purchasing Assistant/Buyer

Watson, Ronney L. (1982)

Grounds Supervisor

White, Willie H. (1990)

Custodian

Whitehead, Carlos V. (1990)

Facilities Management Supervisor

Wilkes, Eileen S. (1986)

Executive Administrative Assistant to
the President

A.S., Albany Business College

Williams, (Tony) (2011)

Custodian

Winter, Pamela (2008)

Administrative Assistant

Zekas, Teressa C. (Carol) 2011

Switchboard Operator

Course Index

A

ACG-Accounting, 161
 AMH-American History, 183, 219
 AML -American Literature, 222
 ANT-Anthropology, 162, 183
 APA-Accounting, 183
 ARC-Architecture, 183
 ARH -Art History, 162
 ART -Art, 163, 183
 ASL-American Sign Language, 255
 AST- Astronomy, 240

B

BAN-Commercial Banking (AIB Courses Only), 164
 BCA-Building Construction Apprenticeship, 169
 BCN-Building Construction, 168, 183
 BCT-Building Construction Trades, 169
 BOT-Botany, 165
 BSC-Biological Sciences, 165, 183
 BUL-Business Law, 171

C

CAP-Computer Applications, 200
 CCJ-Criminology/Criminal Justice, 183, 193
 CET-Computer Engineering Technology, 175
 CGN-Civil Environmental Engineering, 211
 CGS-Computer General Studies, 180
 CHD-Child Development, 183, 205
 CHM-Chemistry, 174, 183
 CIS-Computer & Information Systems, 181, 183
 CJB-College Level Application in Criminal Justice, 184
 CJC-Criminal Justice: Corrections, 184, 193
 CJD-Criminal Justice Development, 185
 CJE-Law Enforcement, 185
 CJJ-Juvenile Justice, 188, 193
 CJK-Criminal Justice Basic Training, 188, 191
 CJL-Criminal Justice Law & Process, 192, 194
 CJT-Crime Scene Technology, 193
 CLP-Clinical Psychology, 246
 CNT-Computer Networks, 181, 183
 COP-Computer Programming, 176, 182, 200
 CPO-Comparative Politics, 245
 CRW-Creative Writing, 213
 CTS-Computer Technology and Skills, 176, 183

D

DAA-Dance Activities, 195
 DEA-Dental Assisting, 195
 DEH-Dental Hygiene, 196
 DEP-Developmental Psychology, 247
 DES-Dental Support, 198
 DIG-Digital Media Technology, 183, 201
 DSC-Domestic Security, 193

E

ECO-Economics, 183, 207
 EDF-Education: Foundations & Policy Studies, 207
 EDG-Education: General, 183
 EET-Electronic Engineering Technology, 178, 183
 EGN-Engineering: General, 211
 EGS-Engineering: Support, 204, 212
 EME-Education Technology and Media, 208
 EMS-Emergency Medical Services, 183, 209
 ENC-English Composition, 183, 213
 ENG-English: General, 223
 ENL-English Literature, 223
 ENT-Entrepreneurship, 215
 EPI-Educator Preparation Institute, 208
 ESC-Earth and Space Science Survey, 240
 EST-Electronic Specialty Technology, 179
 ETC-Engineering Technology: Civil, 212
 ETD-Engineering Technology: Drafting, 183, 204
 ETG-Engineering Technology: General, 183, 212
 ETI-Engineering Technology: Industrial, 212
 ETM-Engineering Technology: Mechanical, 183
 ETP-Engineering Technology: Power, 161
 EUH-European History, 220
 EVR-Environmental Studies, 240
 EVT-Education: Vocational-Technical, 260

F

FFP-Fire Fighting and Protection, 183, 215
 FIN-Finance, 215
 FOR-Forestry, 183
 FOS-Food Science, 194
 FRE-French, 218
 FSS-Food Service Systems, 183, 194

G

GEA-Geography, Regional Areas, 219
 GEB- General Business, 172, 183
 GEO-Geography Systematic, 219
 GLY-Geology, 241
 GRA-Graphic Design/Digital Media, 203

H

HCP-Health Care Providers, 236, 245
 HFT-Hospitality Management, 172, 183, 220
 HIM-Health Information Management, 183, 219
 HLP-Health, Leisure, & Physical Education, 267
 HOE, Home Economics: General, 183
 HSA-Health Services Administration, 232
 HSC-Health Science, 172, 173, 219, 233, 245, 267
 HUN-Human Nutrition, 195, 237
 HUS, Human Services, 183

I

IDH-Interdisciplinary Honors, 220
 INR-International Relations, 245
 ISC-Interdisciplinary Science, 241
 ISM-Information Systems Management, 224
 ISS-Interdisciplinary Social Sciences, 221

J

JOU-Journalism, 183, 221

L

LIN-Linguistics, 214
 LIS-Library and Information Studies, 183, 214
 LIT-Literature, 223

M

MAC-Mathematics: Calculus & Pre-calculus, 183, 226
 MAD-Mathematics, Discrete, 227

MAN-Management, 224
 MAP-Mathematics Applied, 227
 MAR-Marketing, 225
 MAS-Mathematics: Algebraic Structures, 227
 MAT-Mathematics, 226
 MCB-Microbiology, 167
 MET-Meteorology, 183, 241
 MGF-Mathematics - General and Finite, 227
 MKA-Marketing Applications, 225
 MMC-Mass Media Communication, 221
 MNA-Management: Applied, 183, 225
 MTB-Mathematics - Technical & Business, 226, 245
 MUC-Music: Composition, 230
 MUL-Music: Literature, 228
 MUM-Music: Technology & Business, 230
 MUN-Music Ensembles, 228
 MUO-Music: Opera/Musical Theatre, 229
 MUS-Music, 231
 MUT-Music: Theory, 229
 MVB-Applied Music: Brasses, 229
 MVK-Applied Music: Keyboard, 229, 230
 MVO-Applied Music: Other, 183
 MVP-Applied Music: Percussion, 229, 230
 MVS-Applied Music: Strings, 229
 MVV-Applied Music: Voice, 229
 MVW-Applied Music: Woodwinds, 229

N

NMT-Nuclear Medicine Technology, 231
 NSP-Nursing: Special, 233, 260
 NUR-Nursing, Generic Undergraduate, 233, 234

O

OCE-General Oceanography, 241
 OST-Office Administration, 183, 237

P

PAD-Public Administration, 183
 PCB-Process Cell Biology, 183
 PEL-Physical Education, Object Centered, 183, 268
 PEM-Physical Education, Performance Centered, 268
 PEN-Physical Education, Water, 268
 PEO-Physical Education, Object Centered, 269
 PET-Physical Education Theory, 269

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

PGY-Photography, 240
 PHA-Pharmacy, 183
 PHH-Philosophy, History of, 239
 PHI-Philosophy, 183, 239
 PHT-Physical Therapy, 183, 241
 PHY-Physics, 183, 244
 PLA-Paralegal Assistant, 183, 222
 POS-Political Science, 183, 245
 PRN-Practical Nursing, 245
 PSC-Physical Sciences, 183
 PSY-Psychology, 183, 247
 PTN-Pharmacy Technician, 238
 PUR-Public Relations, 183

Q

QMB-Quantitative Methods in Business, 172

R

REA-Reading, 252
 REE-Real Estate, 183, 252
 REL-Religion, 183, 253
 RET-Respiratory Therapy, 254
 RMI-Risk Management & Insurance, 221
 RTE-Radiologic Technology, 248
 RTV-Radio-Television, 183, 247

S

SBM, Small Business Management Occupational/Technical
 Variable Paced , 225
 SCY-Security Guard, 193
 SLS-Student Life Skills, 259
 SON-Sonography, 256
 SOW-Social Work, 183, 255
 SPC-Speech Communication, 183, 259
 SPN-Spanish Language, 258
 STA-Statistics, 228
 STS-Surgical Technology, 173, 264
 SUR-Surveying (see Civil Eng & Eng Tech), 213
 SYG-Sociology, General, 255

T

TAR-Technical Architecture, 205
 TAX-Taxation, 161
 THE-Theatre Studies & General Resources, 266
 TPA-Theatre Production & Administration, 266
 TPP-Theatre Performance & Performance Training, 266
 TPP-Theatre Performance & Performance Training, 266
 TRA-Transportation and Logistics, 267

W

WST-Women's Studies, 269

Index

A

Academic Advising, 27
 Academic Freedom, 32
 Academic Grievances, 33
 Academic Integrity, 40
 Academic Policies, 39
 Academic Standards, 44
 Academic Standing, 44
 Accounting Applications, 100
 Accounting Technology, 100
 Administrative Officers, 272
 Admission of Non-High School Graduate, 14
 Admissions for College Credit, 12
 Admissions for Non-Credit, 12
 Admissions, 11
 Advanced Placement (AP), 43
 Advanced Technical Certificates, 98
 AICE (AICE), 43
 Alternative Energy Engineering Technology, 101
 Alternative Scheduling Opportunities, 20, 21
 Alumni Association, 10
 Appeals Committee (Non-academic), 33
 Applied Technology Diploma and Technical Certificates, 98
 Assessment (CLEP), 28
 Associate in Applied Science (A.A.S.) Degrees, 98
 Associate In Arts Degree Program of Study, 50
 Associate In Arts Degree, 49
 Associate in Arts Transfer General Education Outcomes, 49
 Associate in Science (A.S.) Degrees, 97
 Associate In Science and Associate In Applied Science Degrees, 97
 Attendance, 41
 Audio Technology College Credit Certificate, 101
 Audit Student, 17
 Autocad Foundations, 102

B

Bachelor Degree Graduation Requirements, 46
 Bachelor of Applied Science (B.A.S.) Degree, 46
 Bachelor of Applied Science in Technology Management Program of Study, 46
 Bachelor of Science in Nursing (B.S.N.) Degree, 48
 Bachelor of Science in Nursing (B.S.N.) Degree Program of Study, 48
 Bookstore, 28

Building Construction, 102
 Business Administration & Management, 103
 Business and Industry Training Programs, 160

C

Cambridge AICE (AICE), 43
 Campus Organizations, 39
 Campus Sex Crimes Prevention Act Notice, 38
 Cardiovascular Sonography, 104
 Career Center/Job Placement, 29
 Career Service Personnel, 280
 Center for Business, Continuing and Community Education Programs, 160
 Central Service Technology, 104
 Certificate Programs, 98
 Certified Nursing Assistant, 106
 Change of Name, Address, Major, 41
 Civil Engineering Technology, 106
 College History, 9
 College Level Examination Program (CLEP), 43
 College Your Way, 20
 Computed Tomography, 107
 Computer & Network Security, 108
 Computer Integrated Manufacturing Technology, 109
 Computer Integrated Manufacturing, 109
 Computer Labs, 30
 Cooperative Education, 21
 Correctional Officer Certification, 110
 Counseling, 31
 Course Substitution, 42
 Crime Scene Technician, 111
 Crime Scene Technology, 112
 Criminal Justice Technology, 113
 Crossover Correctional Officer to Law Enforcement Officer, 114
 Crossover Correctional Probation Officer to Law Enforcement Officer, 115
 Culinary Management, 117
 Cultural Occasions, 38

D

Database Development Specialist, 118
 Dean's List, 39
 Degree Audit, 36
 Denial of Admission, 17

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

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=PSAV course.

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Dental Assisting Certificate, 118
 Dental Hygiene, 120
 Developmental Education, 31
 Developmental Outcomes, 31
 Developmental Studies Policies, 31
 Digital Media/Multimedia Production, 121
 Digital Media/Multimedia Technology, 122
 Drafting and Design Technology, 123

Drug Free Campus, 38
 Dual Enrollment Admission (High School), 14

E

Early Childhood Education, 124
 Early Completion by Examination, 43
 Early-Out Student Admission, 15
 Education Programs and Partners, 160
 Educator Preparation Institute, 158
 Electrical Apprenticeship, 125
 Electronics Engineering Technology, 125
 Emergency Medical Services, 126, 127
 Emergency Medical Technician, 127
 Entrepreneurship, 128
 Entrepreneurship Operations, 129
 Evaluating The Validity of High School Diplomas, 14
 Excelsior College Mobility Examinations, 43
 Excess Hours Advisory Statement, 41

F

Faculty and Staff, 272
 Family Educational Rights And Privacy Act (FERPA), 33
 Fee Changes, 21
 Fees For Non-Credit Activities, 22
 Financial Aid Programs, 23
 Financial Statement of Responsibility, 16
 Fines, 40
 Fire Science Technology, 129
 Firefighting, 130
 First Time in College Student, 12
 Florida Academic Counseling and Tracking for Students (FACTS), 29
 Florida Child Care Professional Credential, 131
 Florida Residency for Tuition Purposes, 17
 Florida's Statewide Course Numbering System, 270
 Foreign Transcripts, 17

G

General Admission Procedures, 12
 General Education Core Outcomes for Workforce Degree Students, 97

Grade Change, 40
 Grade Forgiveness, 40
 Grades, 40
 Graduation Honors, 40
 Graduation Procedures, 42
 Graduation Requirements for the Associate in Arts Degree, 50
 Green Building Construction Technology, 131
 Gulf Coast State College Alumni Association, 10
 Gulf Coast State College Foundation, Inc., 10

H

Handicapped Parking, 37
 Health Information Management Option, 70
 Health Insurance, 17
 Health Science Option, 70
 Health Services Administration Option, 70
 Honors List, 39
 Honors Program, 32
 Hospitality Management, 132
 Housing, 17
 How to Compute Grade Point Average (GPA), 40

I

International Baccalaureate (IB), 43
 International Student Admission Application, 16
 International Student Admission, 16

L

Law Enforcement Auxiliary, 116
 Law Enforcement Officer Certification, 117
 Legal Assisting/Paralegal, 132
 Library, 28
 Limited-Access Program Admission, 15
 Logistics and Transportation Specialist, 133

M

Magnetic Resonance Imaging, 134
 Massage Therapy, 135
 Maximum Course Load, 42
 Maximum Credit Hour Limit for Need Based Aid Students, 45
 Medical Office Management, 135
 Medical Record Transcribing, 136
 Military Credit, Prior Training, and Experience, 43
 Military Services Program, 20
 Music Production Technology, 136

N

Networking Services Technology, 137
 Non-Degree Students, 14
 Non-Traditional Credit, 43
 Nuclear Medicine Technology, 138
 Nursing, Associate Degree, 139

O

Office Administration, 142
 Office Management, 143

P

Paramedic Certificate, 127
 Parking and Campus Security, 36
 Parking Decals/Temporary Passes, 37
 Pay4Print, 28
 Perioperative Nursing, 141
 Personal Identification Number (PIN), 30
 Pharmacy Technician, 143
 Physical Therapist Assistant, 144
 Placement Testing, 27
 Practical Nurse Certificate, 145
 President's Honor List, 39
 Private Security Officer, 146
 Procedures for Requesting a Refund after the Drop/Add
 Period, 23
 Public Radio Stations, 39

R

Radiography, 147
 Readmission, 14
 Refund Policy For Credit Classes, 22
 Refund Policy For Non-Credit Activities, 23
 Registered Nurse First Assistant, 148
 Regulated Health Professions Training Programs, 160
 Regulated Public Safety Training Programs, 160
 Respiratory Care (Therapy), 149
 Returning Student Program, 30

S

Scholarships, 10
 Servicemembers Opportunity College (SOC), 44
 Services for Students with Disabilities, 30
 Sites, 21
 Software and Database Developer, 150

Sonography, Diagnostic Medical, 151
 Special Student Admission, 14
 Statement of Values, Vision, and Mission, 9
 Student Classification, 39
 Student Conduct, 33
 Student E-Mail, 30
 Student Expense, 21
 Student Financial Aid, 23
 Student Identification Card, 31
 Student Insurance, 30
 Student Ombudsman, 33

Student Persistence Rules/Placement Rate of Vocational
 Completers, 33
 Student Records, 43
 Student Right to Know, 33
 Student Rights & Responsibilities, 33
 Student Support Services - Trio, 29
 Surgical First Assisting, 152, 153
 Surgical Technology, 155
 Sustainable Design, 157

T

TOEFL-Test of English as a Foreign Language, 16
 Total Attempts, 41
 Transcripts, 42
 Transfer from a Non-Regionally Accredited Institution, 16
 Transfer Student Admission, 15
 Transfer Track/Accounting, 52
 Transfer Track/Agriculture Science, 52
 Transfer Track/Anthropology/Archaeology, 53
 Transfer Track/Architecture, 53
 Transfer Track/Art, 54
 Transfer Track/Biology, 54
 Transfer Track/Building Construction, 55
 Transfer Track/Business Administration, 56
 Transfer Track/Business Teacher Education, 56
 Transfer Track/Chemistry, 57
 Transfer Track/Chiropractic Medicine, 58
 Transfer Track/Communication, 58, 59, 60
 Transfer Track/Computer Information Systems, 60
 Transfer Track/Computer Science and Software
 Engineering, 61
 Transfer Track/Computer Science, 61
 Transfer Track/Criminology/Criminal Justice, 62
 Transfer Track/Dental Medicine, 63
 Transfer Track/Early Childhood, 63
 Transfer Track/Economics for Business, 64
 Transfer Track/Economics, 64
 Transfer Track/Elementary Teacher Education, 65
 Transfer Track/Engineering, 65

#Applies only to A.S. degree, A.A.S. degree, and certificate programs.

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=PSAV course.

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Transfer Track/English, 66
 Transfer Track/Entomology, 66
 Transfer Track/Environmental Science: Natural Science Option, 67
 Transfer Track/Environmental Science: Policy Option, 67
 Transfer Track/Foreign Language, 68
 Transfer Track/Forestry, 68
 Transfer Track/Geology, 69
 Transfer Track/Health Administration, Information, and Science Degrees, 70
 Transfer Track/Health Education, 69
 Transfer Track/History, 71
 Transfer Track/Information Technology, 71
 Transfer Track/Landscape Operations and Management, 72
 Transfer Track/Legal Studies, 73
 Transfer Track/Marine Biology, 73
 Transfer Track/Mathematics Education, 75
 Transfer Track/Mathematics, 74
 Transfer Track/Medical Technology, 77
 Transfer Track/Medical, 76
 Transfer Track/Meteorology, 78
 Transfer Track/Middle School Science, 78
 Transfer Track/Music, 79
 Transfer Track/Nursing, 80
 Transfer Track/Nutrition, Food, and Exercise Science, 80
 Transfer Track/Occupational Therapy, 81
 Transfer Track/Oceanography, 82
 Transfer Track/Optomety, 82
 Transfer Track/Ornamental Horticulture, 83
 Transfer Track/Pharmacy, 83
 Transfer Track/Philosophy, 84
 Transfer Track/Physical Education, 85
 Transfer Track/Physical Therapy, 86

Transfer Track/Physics, 86
 Transfer Track/Political Science, 87
 Transfer Track/Psychology, 87
 Transfer Track/Radiologic Science, 88
 Transfer Track/Recreation, 89
 Transfer Track/Religion, 90
 Transfer Track/Respiratory Care (Therapy), 90
 Transfer Track/Science Education, 91
 Transfer Track/Social Studies Education, 92
 Transfer Track/Social Work, 93
 Transfer Track/Sociology, 93
 Transfer Track/Special Education, 94
 Transfer Track/Sports Medicine/Athletic Trainer, 94
 Transfer Track/Theatre, 95
 Transfer Track/Veterinary Medicine, 96
 Transfer Track/Women's Studies, 96
 Transferring to GCSC with a Bachelor's Degree, 16
 Transient Student Admission, 16
 Tutorial Services, 31

V

Vocational Credit Certificates, 98

W

Web Design and Production, 158
 Web Registration, 29
 Websites, 29
 Withdrawals, 42
 Workforce Degree Programs, 97