



DISCOVER
A NEW COLLEGE
CONCEPT

2009 | 2010 GENERAL CATALOG



www.gulfcoast.edu | 850.769.1551



Gulf Coast Community College
5230 West Highway 98
Panama City, Florida 32401
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Florida Relay System 1-800-955-8771 (TDD only)
www.gulfcoast.edu

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

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

Gulf Coast Community College is an equal opportunity, equal access institution which does not discriminate with respect to race, creed, color, national origin, sex, age, religion, disability, or marital status in the admission or access to, or treatment or employment in, its programs and activities. Rules, policies, fees, and courses described in this catalog are subject to change without notice.

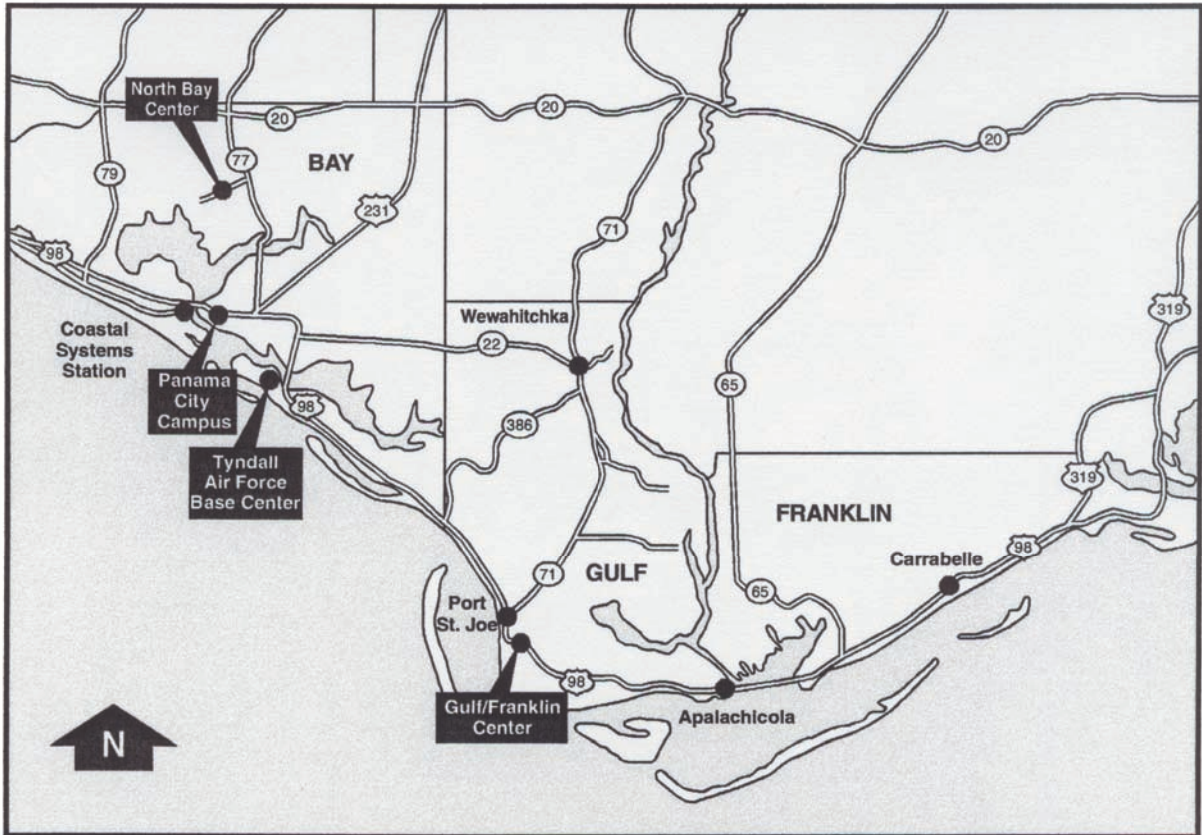
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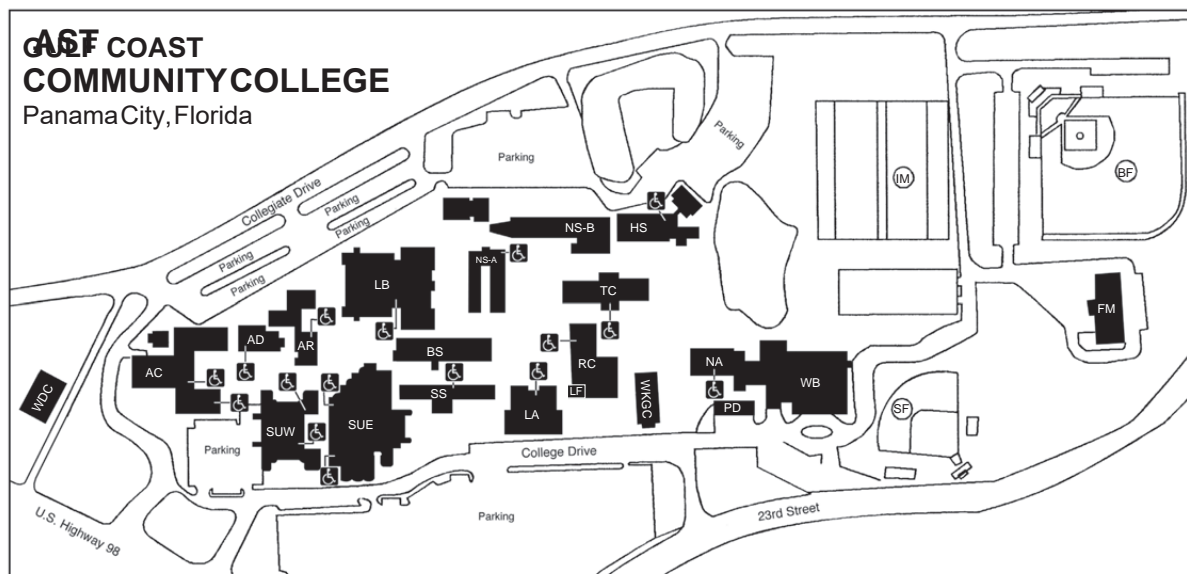
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GULF COAST COMMUNITY COLLEGE SERVICE DISTRICT



District: 1-800-311-3685



Directory

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/Lifelong Learning)
 SUW -- Student Union West
 (Bookstore/Mathematics/Success Center)
 TC -- Technology Building

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

Administrative Sites

- AD -- Administration Building
 AR -- Admissions & Records Building/
 Gardner Seminar Room
 FM -- Facilities Management

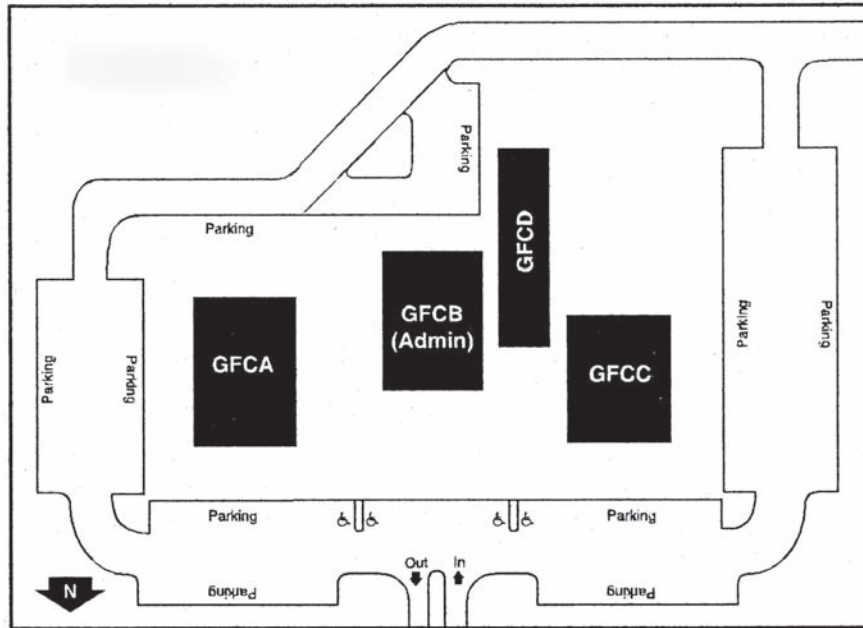
Sport Complexes

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

 Automatic Doors for Disabled

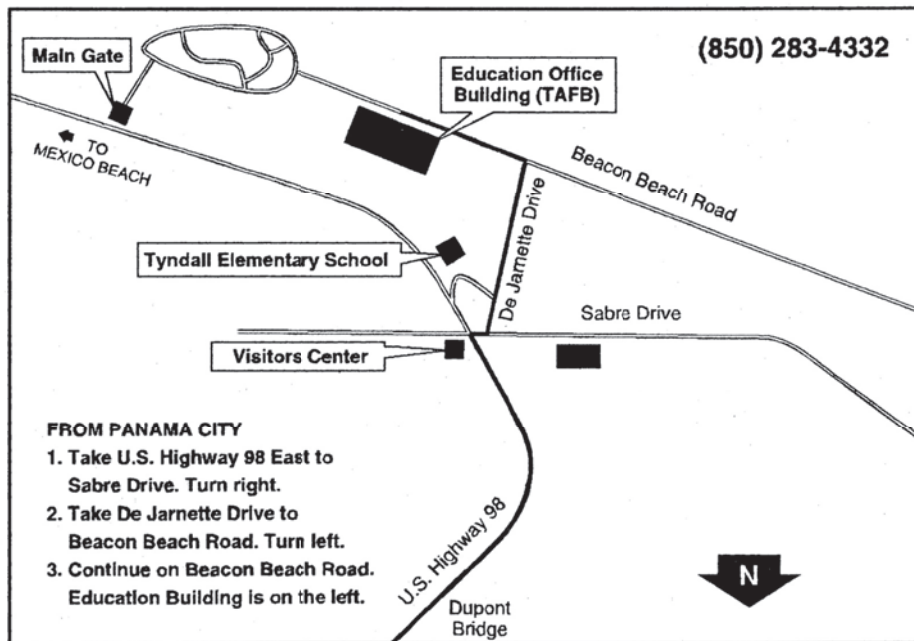
GULF COAST COMMUNITY COLLEGE GULF/FRANKLIN CENTER

Port St. Joe, Florida



Gulf/Franklin Center: (850) 227-9670

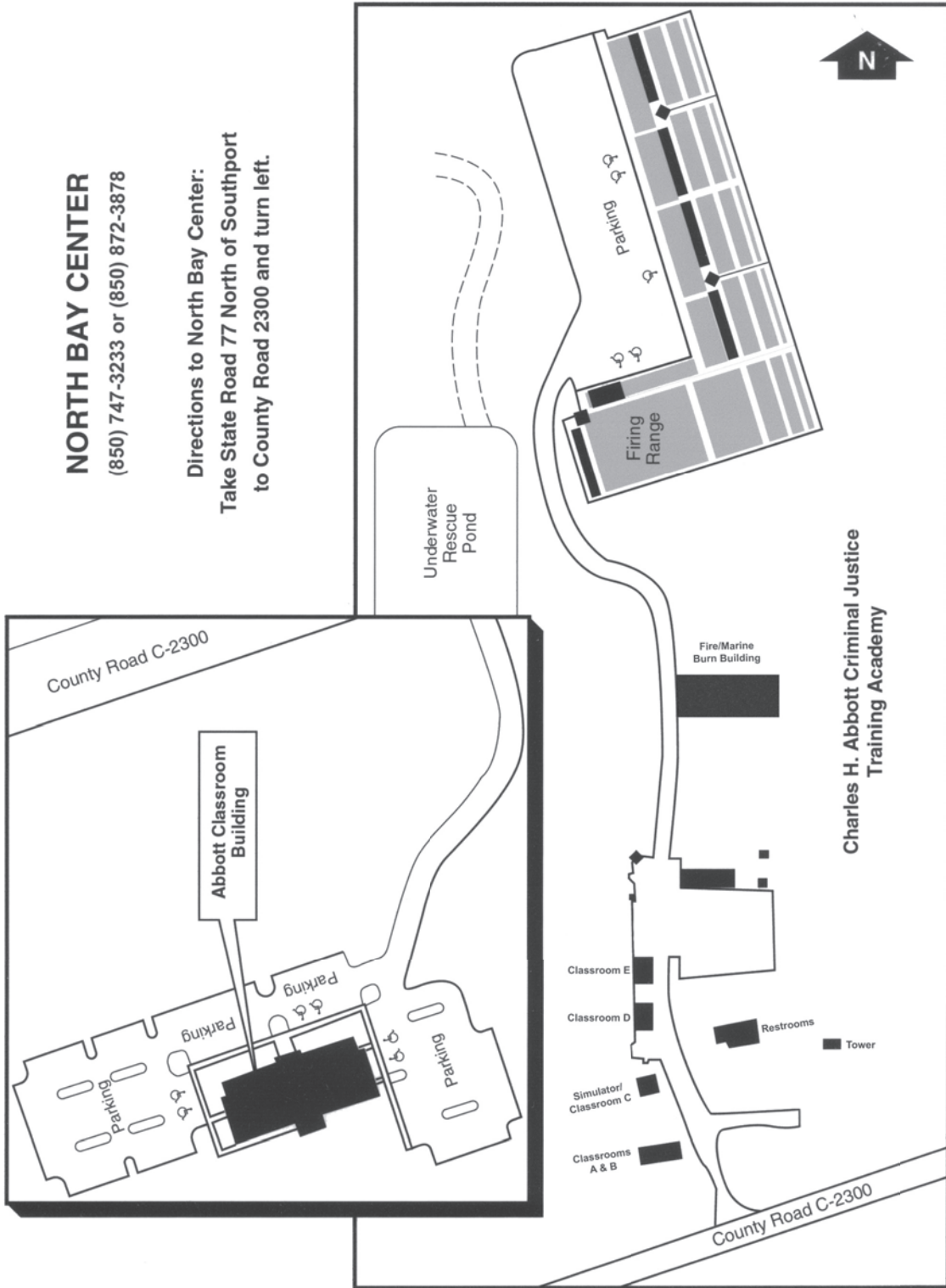
TYNDALL EDUCATION CENTER



Tyndall Education Center: (850) 283-4332

NORTH BAY CENTER
(850) 747-3233 or (850) 872-3878

Directions to North Bay Center:
Take State Road 77 North of Southport
to County Road 2300 and turn left.



**Charles H. Abbott Criminal Justice
Training Academy**

2009-2010 Calendar	Fall 2009		
	Session A 8/19-12/18	Session B 8/19-10/14	Session C 10/15-12/18
Academic Dates and Deadlines			
Campus Advising & Registration (Excludes Sat., Sun., & holidays)**	April 13-April 17 June 8-August 7 August 13-18	April 13-April 17 June 8-August 7 August 13-18	April 13-April 17 June 8 - August 7 August 13-October 14
Tyndall Air Force Base Advising & Registration (Excludes Sat., Sun., & holidays)**	April 13-April 17 June 8-August 7 August 13-18	April 13-April 17 June 8-August 7 August 13-18	April 13-April 17 June 8 - August 7 August 13-October 14
Gulf/Franklin Center Advising & Registration (Excludes Sat., Sun., & holidays)**	April 13-April 17 June 8-August 7 August 13-18	April 13-April 17 June 8-August 7 August 13-18	April 13-April 17 June 8 - August 7 August 13-October 14
North Bay Center Advising & Registration (Excludes Sat., Sun., & holidays)**	April 13-April 17 June 8-August 7 August 13-18	April 13-April 17 June 8-August 7 August 13-18	April 13-April 17 June 8 - August 7 August 13-October 14
Web registration will be available when college is closed except for scheduled main			
Registration Fees Due	August 7	August 7	(After August 25, fees due on Friday after registration occurs)
Classes Begin	August 19	August 19	October 15
Late Registration; Drop/Add	August 19-25	August 19-25	October 15-16
Refund and Audit Registration Deadline	August 25	August 25	October 16
Midterm	October 16	September 18	November 13
Withdrawal Deadline: "W" if passing, F" if failing	October 23	September 25	November 20
Final Examinations	December 14-17	October 12-14	December 14-17
Term Ends	December 18	October 14	December 18
Grades available via OASIS	December 22	October 16	December 22
Graduation Application Deadline	November 13	--	--
In order for summer graduates to participate in the spring ceremony, they must submit			
Graduation	--	--	--
Honors Convocation	--	--	--
CLAST Application Deadline	September 4	--	--
CLAST Administered	October 3	--	--
College Placement Test (CPT)	August 31-January 6	--	--
The CPT may be taken two times per semester. A student may take the CPT two times			
Student Holidays - Classes will not be held on these days.	September 5-7		
	November 11		
	November 23-29		
College Closed for all students and employees.			
In-service Day	August 10		
Memorial Day			
Independence Day			
Labor Day	September 5-7		
Veteran's Day	November 11		
Thanksgiving Holidays	November 26-29		
Christmas Break/New Year's Holiday	December 24-January 3		
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 w</i>			

Spring 2010			Summer 2010		
Session A 1/7-5/7	Session B 1/7-3/4	Session C 3/8-5/7	Session A 5/10-7/31	Session B 5/10-6/18	Session C 6/21-7/31
November 30-December 17 January 5-6	November 30-December 17 January 5-6	November 30-December 17 January 5-March 4	April 12-May 7	April 12-May 7	April 12-June 18
November 30-December 17 January 5-6	November 30-December 17 January 5-6	November 30-December 17 January 5-March 4	April 12-May 7	April 12-May 7	April 12-June 18
November 30-December 17 January 5-6	November 30-December 17 January 5-6	November 30-December 17 January 5-March 4	April 12-May 7	April 12-May 7	April 12-June 18
November 30-December 17 January 5-6	November 30-December 17 January 5-6	November 30-December 17 January 5-March 4	April 12-May 7	April 12-May 7	April 12-June 18
Maintenance windows. (Fall 2009: April 13-October 16; Spring 2010: November 30-March 9; Summer 2010: April 12-June 22 beginning at 12:15 a.m.)					
January 4	January 4	(After January 13, fees due on Friday after registration occurs)	May 5	May 5	June 14
January 7	January 7	March 8	May 10	May 10	June 21
January 7-13	January 7-13	March 8-9	May 10-11	May 10-11	June 21-22
January 13	January 13	March 9	May 11	May 11	June 22
March 5	February 5	April 2	June 25	May 28	July 9
March 12	February 12	April 16	July 2	June 4	July 16
May 3-6	March 1-4	May 3-6	July 28-29	June 16-17	July 28-29
May 7	March 4	May 7	July 31	June 20	July 31
May 11	March 8	May 11	August 3	June 22	August 3
February 19	--	--	July 16	July 16	July 16
it their summer graduation application prior to the spring application deadline. No exceptions.					
May 9	--	--			
April 30	--	--			
January 22	--	--	May 7		
February 20	--	--	June 5		
January 7-May 9	--		May 10-August 27		
s between these dates each semester.					
January 16-18			May 29-31	July 3-5	
April 5-11					
			May 29-31		
				July 3-5	
January 16-18					
April 5-11					
<i>when possible. (2/25/09)</i>					

DISTRICT BOARD OF TRUSTEES



William C. Cramer, Jr., a native of St. Petersburg, is chair of the District Board of Trustees and president of Bill Cramer Chevrolet Cadillac Buick Pontiac GMC of Panama City. He holds a bachelor's degree from the University of North Carolina at Chapel Hill and a Juris Doctor from Harvard Law School.



Dr. Stephen C. Myers, a native of Panama City, is a dentist with a Panama City Beach general practice emphasizing adult restorative and cosmetic dentistry. He holds an A.A. from Gulf Coast Community College and a D.M.D. from the University of Florida.



Charles S. Isler, III, vice chair of the District Board of Trustees, is a shareholder in the law firm Isler, Sombathy & Sombathy, P.A. He is a Panama City native and holds an A.A. from Gulf Coast Community College, a B.S. from Florida State University, an M.B.A. from Georgia College, and a Juris Doctor from the John Marshall Law School.



William C. Sumner, a native of Jacksonville and resident of Wewahitchka, is a retired bank president and a real estate broker. He holds B.A. and M.B.A. degrees from the University of Georgia.



Denise D. Butler, a native of Coral Gables and resident of Eastpoint, is president of Cook Insurance Agency of Apalachicola. She holds a B.S. in education and an M.S. in educational leadership from Florida State University.



Linda R. Wood, a native and resident of Port St. Joe, Florida, is serving a third term on the Gulf County School Board. She is a former teacher and holds a Bachelor of Arts in English and education from Florida State University.



James Allen Cox, a native of Bainbridge, Georgia, is president and owner of James A. Cox and Associates, Inc., of Port St. Joe. He holds a bachelor's degree from the University of Alabama and a master's degree from Georgia College, both in business administration.



Derrick G. Bennett, a native of Panama City, is a partner in the law firm Harrison, Rivard and Bennett. He represents the firm as the primary attorney for the District Board of Trustees, holding a bachelor's degree in finance from the University of Florida and a Juris Doctor from Stetson University.



Karen L. Durden, is a native of Tallahassee and a resident of Panama City Beach. She is an interior designer and is a past-president of the Gulf Coast Community College Foundation, Inc.



Dr. Jim Kerley, a Tennessee native, became the fifth president of Gulf Coast Community College in June 2007. He holds a B.S. in social sciences/history/secondary education from Tennessee Tech University, an M.A.T. in history from The Citadel, and a Ph.D. in educational administration and supervision of higher education from Florida State University.



Dan A. Estes, a native of Bassett, Virginia, is the owner of D.A. Estes and Associates, Vetted Services, Inc., and Bay County Investments of Panama City. He is a veteran of the United States Air Force and a mentor at New Horizon Learning Center.

STATEMENT OF VALUES, VISION, AND MISSION

Statement of Values

Holding true to its vision and working continuously on mission, Gulf Coast Community 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 Community 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 Community 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 Community 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 community 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), Admissions and Records Building (1960; renovated 1970 and 1995), 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), and the Workforce Development Building (2004; formerly the Florida Highway Patrol building). 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. Each semester, the college enrolls approximately 7,000 students in credit courses, with many thousands more registering in continuing education and lifelong learning programs.

Throughout its history, the College has been committed to providing a first-class education. This commitment is evidenced by the excellent performance of GCCC graduates who transfer to a state university as well as

by the high job placement rates of students in occupational programs.

THE GULF COAST COMMUNITY COLLEGE FOUNDATION, INC.

Vision and Mission

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

The Gulf Coast Community 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 GCCC. Through the active involvement and leadership of citizens united by these purposes, the Foundation serves as an effective liaison between GCCC 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 GCCC 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. Currently underway, the Athletic Tradition and Leadership Campaign is supporting GCCC student athletes in achieving their goals.

Scholarships

What is a scholarship? A Foundation Scholarship award is a monetary amount (grant-in-aid) given to a GCCC student who has applied and been selected to receive a scholarship. Scholarship awards are not meant to cover 100% of a student's educational cost. Awards are intended only to supplement a student's educational needs.

Who can apply for a scholarship? Scholarship opportunities are open to all students attending or planning to attend Gulf Coast Community College. Applicants must have a cumulative grade point average

of 2.0 or higher. All applicants must be accepted to Gulf Coast Community 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 and Partnership Scholarships.

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

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 Community College Foundation at (850) 873-3810 or visit www.gulfcoast.edu.

Alumni Association

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

Who can join? GCCC defines our alumni as anyone with 12 or more hours (credit or non-credit courses) at GCCC. GCCC 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.

What are the benefits? Being a part of the GCCC 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, attending discounted theatre and athletic events, keeping in touch with classmates, attending special alumni events and receptions, and participating in educational workshops. As a member of the GCCC Alumni Association, you will receive

complimentary copies of The Clipper, GCCC’s premier community magazine, as well as the student publication, The Gull’s Cry.

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

Join Today! Contact the Office of Alumni Affairs today for more information and/or join online by visiting our web site: GCCC Office of Alumni Affairs, phone: (850) 873-3583; Email: alumni@gulfcoast.edu; Web: www.gulfcoast.edu/alumni.

ADMISSIONS

Applications for admission may be obtained from the Office of Admissions and Records or visit www.gulfcoast.edu and click on "Apply Online." The following chart summarizes the supported documents required for the various student categories.

Student Category	Application Documents								
	A	B	C	D	E	F	G	H	I
A.A Degree Seeking	√	√	1	2	3				
A.S. Degree, A.A.S., or Technical Certificate Seeking	√	√	1	2	3				
PSAV Certificates	√	√	1	1	1				√
Health Sciences Students	√	√		2	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 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 Community College provided she/he meets the requirements for enrollment in the particular program and for continued attendance as set forth in this catalog.

ADMISSIONS 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/or 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 A.E. Gardner Advising Center to register for courses.

First Time in College Student

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.

ADMISSIONS FOR NON-CREDIT

Non-credit courses are designed to meet the needs of citizens in the community and students are not seeking

an associate 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 admissions to the Enrollment Services Office. Applications are available on-line at www.gulfcoast.edu, or at any Admissions Office. There is a \$20 non-refundable application fee.
2. Submit an official high school and/or 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 the 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

4. Submit a complete Residency Affidavit as part of the College application.

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, or college transcript from each institution attended must be submitted to the Office of Admissions and Records. An official transcript is mailed from a high school or college directly to Gulf Coast Community College. Hand carried transcripts are not official. All transcripts become part of the student's permanent record and may not be returned.

Readmission

Students who have not been enrolled at GCCC 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 GCCC. 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 enroll in advanced and professional, postsecondary, vocational, and/or postsecondary adult vocational courses. 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.

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 Community 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 Common 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 GCCC 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 GCCC as a non-degree seeking student. Early-out students are required to meet all GCCC admissions requirements and upon admissions 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 GCCC 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 all institutions of higher education previously attended for students enrolled in Associate in Arts degrees, Associates in Science degrees, Associates in Applied Science 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 GCCC 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 GCCC.

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 GCCC 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 GCCC with a Bachelor's Degree

Students transferring to GCCC 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 providing official transcripts, obtain a certified evaluation package from the Office of Enrollment Services (mailed to the student), and take the evaluation package to the appropriate program manager 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 notation "Bachelor's Degree" will be placed on the transcript, along with specific courses posted as external credits, as in the following example: ENC1101 BACH Degree

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

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 \$20 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 Community College (GCCC) 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 may be required. Acceptance of transfer courses is subject to approval by GCCC.

- **Housing:** On campus housing is not available at GCCC; 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 GCCC.

Upon the student's 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 GCCC.

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.

Audit Student

Students who plan to take a course as audit must meet GCCC admission and course placement requirements. Audit students must declare the audit status prior to the end of the schedule adjustment period by completing an "audit request" form at any Admissions Office. Audit students are assessed all applicable fees.

Residency

It is important to understand that living or attending college in Florida is not tantamount to establishing a legal residence. Living or attending school in Florida merely indicates physical presence--not legal residence. Legal residency in Florida is established when certain legal ties to the state are made.

All applicants who are residents for tuition purposes are required to make a statement as to the length of residence in the State of Florida and submit it with their application for admission. Applicants who are not residents for tuition purposes may attend Gulf Coast Community College but are required to submit a statement of residency. Non-Florida residents for

tuition purposes will pay higher fees than Florida residents.

Listed below are the documents established by the State Department of Education Rule as items required for classification of residency for tuition purposes. A student, or the dependent student's parent/guardian, must be able to present **two** of these documents:

- A Florida drivers' license issued over 12 months prior to the first day of classes.
- A Florida voter's registration issued over 12 months prior to the first day of classes.
- A vehicle registered in the State of Florida for more than 12 months prior to the first day of classes.
- A Declaration of Domicile filed with the Clerk of the Court more than 12 months prior to the first day of classes.
- Proof of purchase of a permanent home (to include homestead Exemption) more than 12 months prior to the first day of classes.
- A professional or occupational license in the State of Florida
- Florida incorporation
- Proof of full-time employment or part-time employment for more than 12 months prior to the first day of classes.

A dependent student is any student who is eligible to be claimed as a dependent for Internal Revenue purposes. Therefore, any student who is under the age of 24 will be considered a dependent student, and the dependent student's status will be based on the residence status of a parent or legal guardian. A parent or legal guardian must complete the Residence Statement.

The Residence Statement for the independent student must be completed by the student and submitted with the appropriate documentation.

Any student who is under the age of 24 and can document independent status by presenting evidence that he/she is not claimed as a dependent by another person and is filing his/her own income taxes with an annual income that indicates the ability to be self-supporting may be considered as an independent student.

Florida Statutes allow some applicants who have not met the 12-month residence requirement to be classified as Florida residents for tuition purposes. These exceptions are listed below:

A student who intends to make Florida his/her permanent home and is married to an individual who meets the requirements for classification as a resident

for tuition purposes. (marriage certificate required)

- Active duty service members of the United States stationed in Florida or residing in Florida (spouse and dependent children included).
- Active duty service members of the United States not stationed in Florida but whose legal state of residence certificate (DD2058) is Florida (spouse and dependent children included).
- Full-time instructional and administrative personnel employed by the public school system, community college system, or university system (spouse and dependent children included, copy of employment record required).
- A dependent individual who has lived with an adult relative (who is not a parent or legal guardian) for at least five years (relative documentation required).
- Persons who were enrolled as Florida residents at a state institution of higher learning, but who abandon Florida residency for less than a year.
- Latin American/Caribbean Scholars
- United States citizens living on the Isthmus of Panama who have completed 12 consecutive months of college level coursework at the FSU Panama Canal Branch (spouse and dependent children included).
- Full-time employees of state agencies of political subdivisions of the state when the student fees are paid by the agency or subdivision for the purpose of job-related law enforcement or corrections training.
- Qualified beneficiaries under the Florida Pre-paid Postsecondary Expense Program (documentation required).

A student's residency is determined at the time of admission. A non-resident may request reclassification in writing after establishing residency in Florida as determined by law. The non-Florida resident must produce evidence that he/she is a legal resident and has resided in the state for 12 consecutive months. A dependent child must provide evidence that he/her parents are legal residents of the state of Florida.

Out-of-state students who attend GCCC as a full-time student while establishing residency must show intent to reside in Florida and not as a mere temporary residence incident to enrollment. The claimant must provide the necessary **two** documents to show intent to reside in Florida: full-time permanent employment in Florida, purchase of permanent home in Florida, family ties (children/parent).

The law allows a United States citizen or permanent resident alien to be classified as a Florida resident if the

student, or dependent student's parent or legal guardian, has been a legal resident of the state of Florida for 12 consecutive months immediately preceding the first day of classes for the term in which classification as a Florida resident for tuition purposes is sought. Only non-resident aliens classed in Visa categories A, E, G, I, or K may be eligible for classification as a Florida resident for tuition purposes.

Information on residency is available at the Registrar/Admissions Office. Students may also review the residency guideline at www.facts.org and click on residency.

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)
- Weekend Classes
- 8-week Semesters/"Term C"

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 GCCC. These classes are offered in part, or entirely, online. In fact, entire degrees can be achieved through E-Learning at Gulf Coast Community 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.

Weekend College: Another unique blend offered under College Your Way is our weekend offerings. These classes mix the best of face-to-face learning with the convenience of online courses. Weekend College allows students to complete courses at an accelerated

rate through a "blended schedule" of online requirements and classes held during weekends. Keep in mind that each Weekend College class is unique, and may require attendance on different dates and times. Checkout the Weekend College class schedule at <http://www.gulfcoast.edu/>. Maybe there's a perfect fit for you!

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.

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 Community 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 is a chance for a student to apply the knowledge gained in the classrooms in a real work experience. The Co-op helps students to find employment that enhance and polish skills they learned

in classes as well as gain experience that might lead to future employment. The Cooperative Education is located on the second floor of the Technology Building, Room 219. For more information call 872-3874.

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 2009-2010 academic year.

RESIDENT

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

Tuition	\$62.52
Student Activity Fee	6.25
Capital Improvement Fee	6.25
Financial Aid Fee	3.13
Technology Fee	3.13
Access Fee	3.95
Total, Per Credit Hour	\$85.23

PER PSAV CREDIT HOUR:

Tuition	\$60.17
Capital Improvement Fee	3.01
Financial Aid Fee	6.02
Technology Fee	3.01
Access Fee	3.95
Total, Per PSAV Hour	\$76.16

PER ADULT EDUCATION & VOCATIONAL PREP CREDIT HOUR:

Tuition	\$29.61
Capital Improvement Fee	1.48
Financial Aid Fee	2.96
Technology Fee	1.48
Access Fee	3.95
Total, Per Adult Ed and Vocation Prep Hour	\$39.48

NON-RESIDENT

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

Tuition (resident portion)	\$62.52
Tuition (non-resident portion)	189.83
Student Activity Fee	6.25
Capital Improvement Fee	21.17
Financial Aid Fee	12.62
Technology Fee	12.62
Access Fee	3.95
Total, Per Credit Hour	\$308.96

PER PSAV CREDIT HOUR:

Tuition (resident portion)	\$60.17
Tuition (non-resident)	180.50
Capital Improvement Fee	12.03
Financial Aid Fee	24.07
Technology Fee	12.03
Access Fee	3.95
Total, Per PSAV Hour	\$292.75

PER ADULT EDUCATION & VOCATIONAL PREP CREDIT HOUR:

Tuition (resident portion)	\$29.61
Tuition (non-resident portion)	88.83
Capital Improvement Fee	5.92
Financial Aid Fee	11.84
Technology Fee	5.92
Access Fee	3.95
Total, Per Adult Ed and Vocational Prep Hour	\$146.07

CONTINUING WORKFORCE EDUCATION

\$6.00

Application Fee (non-refundable)	\$20.00
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 Community 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. Write a letter requesting a refund to the Vice President of Student Support and Enrollment Management.
2. Attach **supporting documentation** (military orders, physician's letter, etc.).
3. Submit the letter within six weeks of the end of the term.

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 by the Vice President of Student Support and Enrollment Management after the six week period if there was an administrative error by the college.

Refund Policy for Non-Credit Activities

The drop/add period for registration for non-credit activities is course-specific and, therefore, may occur any time during any term. All refunds are calculated by calendar days. When a refund day falls on a calendar day in which the Office of Center for Business, Continuing and Community Education is closed (e.g. Saturdays, Sundays, holidays), the refund will be based on the following workday. The refund process is initiated by a drop request by the student through Center for Business, Continuing and Community Education. Telephone and/or written requests are accepted; however, the refund is based on the work day the drop request is received by the Office of Center for Business, Continuing and Community Education. Refund checks are mailed to the student registered for the non-credit activity.

A refund for an official drop request made before the first day of the activity is 100 percent. Drop requests received on or after the first day of the activity provide no refund. In cases where the first day of the activity is Sunday, drop requests must be received by 4:00 p.m. on the Friday before. In cases where the college must guarantee payments associated with a non-credit activity, a confirmation registration date may be indicated, after which no refund is provided.

A student who submits a written request to the Office of Center for Business, Continuing and Community Education will receive a 100 percent refund of the activity fee at any point in the semester if any of the circumstances noted in the section "Refunds (Credit Classes) exist."

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 GCCC financial aid office in the Student Union East.

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

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.***

Academic Competitiveness Grant (ACG): The Higher Education Reconciliation Act of 2005 (HERA) created this grant program for full-time and part-time students who are pursuing an associate's degree or enrolled in a certificate program which is at least one year in length. Students who are United States citizens and eligible to receive the Federal Pell Grant may also be eligible to receive the Academic Competitiveness Grant if they have completed a "rigorous" course of study in high school as defined by the U.S. Department of Education. For more information on this new grant, visit <http://studentaid.ed.gov> or ask the Financial Aid Office.

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).

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 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. Bright Futures pays most of a student's tuition. Students need to make sure any unpaid balances are paid by the due date. Bright Futures recipients should consult the GCCC 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 GCCC/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 Community College Foundation Scholarships: GCCC Foundation Scholarship opportunities are open to all students attending or planning to attend Gulf Coast Community College. The deadline for applying is March 1st. Applicants must have a cumulative GPA of 2.0 or higher and a valid GCCC student ID number. All interested parties must visit the Foundation's STARS Online scholarship website and set up a student account. The web address is www.gulfcoast.edu/apply/foundation. 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, GCCC 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 leave school 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 loan application is located on the GCCC website at www.gulfcoast.edu. Click on *Prospective Student, Financial Aid, Loans*. All steps must be complete before processing can begin.

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

Short Term Emergency Loans: GCCC loans are administered by the GCCC financial aid office and are available up to the maximum of \$300 during registration for tuition and fees only. 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 2008 income tax forms. 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 15 for fall 2009
November 15 for spring 2010
(FAFSA Application)
(Entrance Counseling, Promissory Note, and Loan Request Form)

General Eligibility Requirements

All financial aid is dependent upon the availability of federal, state, and institutional resources. To be eligible for aid at GCCC, 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)

At the end of each fall and spring semester, every financial aid recipient who has attempted 12 credit hours or more 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 this semester and must earn grades of "C" or better in every class to continue

their warning status for the next semester. If the student fails to achieve FASAP at the end of the semester or does not earn grades of at least a “C,” they will be put on Financial Aid Suspension and will not be eligible for financial assistance. 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>
12 to 24	1.50
25 to 36	1.75
37 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. Appeals must be submitted **in writing** to the financial aid office **with supporting documentation**. 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.

If mitigating circumstances are found to exist, the student may be restored to satisfactory academic standing for one semester only. Further eligibility will occur only if the student clearly shows sound, documented evidence of progress after the first appeal.

The completed appeal form and/or graduation contract along with supporting documentation will be considered by the Assistant Coordinator or Coordinator. If the appeal is granted, additional conditions may be established which the student will be required to meet in order to continue financial aid eligibility. The student will be notified in writing of the decision.

Should the student receive a denial, the student may appeal the denial by submitting a written notice of disagreement to the director who will then form a committee to review the appeal. If the student receives a denial by the committee, the student may request in writing that their appeal be forwarded for further review by the director of budget and student financial services, whose decision is final.

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, ACG, 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 be eligible, students must be degree seeking and their enrollment must be reported to the VA certifying official each term.

Gulf Coast Community 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 Community 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 Community 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 Community 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 A.E. Gardner Advising Center prior to registering for first semester classes.

Every first time student at Gulf Coast Community 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 A.E. Gardner Advising Center is located in the Student Services Building.

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

- Completed all developmental course work in English, reading and mathematics,
- Completed six credit hours of college-level courses,
- Have not changed transfer track or academic major,
- Are not on academic probation or suspension.

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

Placement Testing

All 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) for placement. The CPT is how most students meet the testing requirement. If a student transfers college-level mathematics credit and/or college-level English

composition credit to GCCC, the student has completed the testing requirement in that specific discipline and must test only in the area he or she is deficient.

College-level English composition credit supersedes the need for placement in reading. Transfer students need to have their transcripts evaluated by the transcript specialist to determine whether they will be required to take any of the tests. Arrangements for disabled students needing special testing conditions are made in the Office of Disability Support Services.

Computerized placement tests are available for a fee, and results are available immediately after testing. Students pay the fee in the college's Bookstore or Business Office and take the receipt to the testing center at the CPT Lab located in the Student Services Building. Computerized placement tests are also available at the North Bay Center, Tyndall Air Force Base Center, and the Gulf/Franklin Center.

Placement test schedules are available at the Information Desk in the Student Union East, the Library, the Office of Admissions and Records, Bookstore, the Testing Office, and on the college website (www.gulfcoast.edu) under *Prospective Students* and click on the **testing option**.

TABE tests are given for students in PSAV programs and the Passport Program. Students in the Passport Program are tested on the main campus. Students testing for PSAV programs can test on campus, at the North Bay Center, or at the Gulf/Franklin Center.

The Nursing School Entrance Exam and Dental Certification tests are given on the main campus. Advisers in the Health Sciences Division have the requirements for these tests.

Bookstore

Gulf Coast Community 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.

Library

The GCCC library provides comprehensive library services, including reference, library instruction,

reserve materials, and interlibrary loan. The library's resources include 80,000 books, 250 journal subscriptions, and access to 65 databases. Computers are available for students to access the online catalog and databases. Virtual reference chat is available all hours the library is open. These services may also be accessed via the Internet at www.gulfcoast.edu. In addition to college-owned resources, the staff will help obtain information from other libraries.

College-Level Academic Skills (CLAS)

All students are required to demonstrate the mastery of college-level academic skills in communication and computation in order to receive the Associate in Arts degree. Florida Statutes and State Board of Education Rules designate the following options for students to exhibit the mastery of these competencies:

Communication Competency

- Achieving a score of 500 on the verbal portion of the SAT
- Achieving a score of 22 on the reading portion and a score of 21 on the English portion of the ACT
- Achieving a 2.5 GPA in ENC1101 and ENC1102 and/or Humanities III (earning a minimum of a B and C in two of these courses)

Computation Competency

- Achieving a score of 500 on the quantitative portion of the SAT
- Achieving a score of 21 on the mathematics portion of the ACT
- Achieving a 2.5 GPA in two college-level mathematics courses (MAC, MGF or STA)

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 Room 60 of the Student Union East or on the college website (www.gulfcoast.edu) under *Prospective Students* and click on the **testing option**.

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 Community 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://sd.gulfcoast.edu/test.htm>, student information on CLEP/IB/AP/AICE.
- www.http://www.leg.state.fl.us/Statutes/index.cfm, current state statutes.

Career Center/Job Placement

Whether you're looking for the latest information on GCCC or general scholarships, career and salary information, links to prospective employer web sites, valuable tips for writing resumes, or interview strategies, the GCCC **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/careerdevelopment/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 Community 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 Community College encourages the enrollment of students with disabilities and recognizes

their special needs; thus the Disability Support Services program at GCCC 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 Community 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 Community College and the State of Florida and is administered by the Agency for Workforce Innovation.

Student E-Mail

Student Email is a GCCC provided e-mail account for credit students and is issued upon admission to the college. Student Email is the official method of communication to students, and you are expected to activate your account to check for important information. You can forward your e-mail account to

another address. Establish your email account by following the instructions found at the following site: <http://cms.gulfcoast.edu/emailinstructions.htm>.

Computer Labs

Computer labs for the 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 labs 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 GCCC Personal Identification Number (PIN) is used to access your student information and for Web registration through OASIS. To access OASIS, you must have applied and enrolled in a credit course during the last two years and know your GCCC PIN. New students who have applied on the Web have established their unique 4-digit PIN. Students applying for admissions in person will have a default PIN (month/year of birth, i.e., 0587) assigned when their application for admission has been processed. Students will be required to change their default PIN to a unique-4 digit PIN of your choosing. Your PIN will remain active while you are enrolled as a student at GCCC. To access your student information for grades and evaluated coursework from other colleges go to <http://www.gulfcoast.edu>, click on OASIS Student Portal.

Student Identification Card

Photo student ID cards are available from the Student Activities Office located off the Commodore Café or at the following locations: the main office at the Gulf/Franklin Center, the main office at the North Bay Center and the GCCC 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 Success Center

The college provides tutorial support to Gulf Coast students through the Success Center located in Student Union West. The Success Center provides one-to-one tutorial support to students in all levels of math (through Calculus I), English, and reading. Also, students seeking assistance in meeting entry requirements for Gulf Coast certificate program can register with the Success Center to receive assistance in improving test scores. The Success Center also provides a variety of instructional resources in the form of DVDs, practice worksheets, and computer-based tutorials.

The Success Center offers day, evening, and weekend hours. Appointments are not necessary. Students enrolled in any of the following courses are automatically registered for the Success Center: MAT 0002, MAT 0024, MTB 0375, ENC 0002, ENC 0021, REA 0001, or REA 0002. Students enrolled in other courses can register for the Success Center in Center for Business, Continuing and Community Education located on the second floor of the Student Union East. For more information regarding Success Center services, call 872-3849.

GED Preparation

The college provides GED preparation through the Passport Program. Anyone 16 years of age or older who does not possess a standard high school diploma or GED or who is functioning below the ninth grade level is eligible for services. Orientations are held twice a semester. Students create their own schedules and work at their own pace. Day and evening hours are available and all services are free of charge. For more information, call 913-2916.

Tutoring is available on a limited basis by appointment at both the Tyndall AFB Education Center and the Gulf/Franklin Center. Please check with the secretary on site for times and availability at each location.

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.

Commodore Student Information

CSI is an opportunity for student to learn about college in general and about Gulf Coast specifically. This web-based informational site will allow students to access helpful information to adjust to college life. Access "New Student Information" on the Prospective Student link on the college website.

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 the Success Center (the college tutorial program located in the Student Union West). 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 (REA0001 and REA0002), English (ENC0002 and ENC0021), and mathematics (MAT0002 and MAT0024).

Developmental Outcomes

Students will take developmental courses in English, reading, or mathematics as determined by the score made on the college placement test (CPT). 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 either the course or the Success Center Reading Laboratory and
- continue with a reading course or the lab 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: Each semester students place into two college preparatory areas, including reading; they must address the reading deficiency by enrolling either in a college preparatory course or the Success Center Reading Laboratory. Each semester students place into two college-preparatory areas, excluding reading; they must enroll in at least one college-preparatory class.

Requirement in Three College-Preparatory Areas: Each term students place into three college preparatory courses, they must enroll in a reading course or the Success Center Reading Laboratory 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 Lynn Wallace, director of developmental studies, Student Union West, 769-1551 (ext. 4821).

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 16-hour 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 GCCC 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 15 hours of core courses. In special cases, the honors director may be able to substitute course.

Area I, Honors Symposium*	1 credit
Area II, Humanities I or Biology for Science Majors (BSC2010)	3 credits
Area III, Psychology (PSY2012) and American National Government (POS2041)	6 credits
Area IV, Humanities II or Humanities III	3 credits
Area V, Major's Course by Contract **	3 credits

*The topic addresses in the Honors Symposium changes each semester and the course may be taken more than once if desired. Symposium addresses important and timely issues and offers participants the opportunity to participate in lively discourse.

**Contractual course arrangements permit any course within the student's major to become an honors course

by contract. Students enroll in the regular class but contract with the professor for special projects or studies that expand the course to an honors level. The object is to provide additional opportunities for interaction between professor and student. 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 Community 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 Community 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 (Non-academic)

The Appeals Committee hears non-instructional student grievances. Students may appeal perceived misapplication of college policy by college officials outside the instructional area, which provides its own appeals process. The chair of the Appeals Committee (the Vice President of Student Support and Enrollment Management) may appoint appropriate subcommittees to deal with specific issues. A description of the membership of the Appeals Committee is in the current *Student Handbook*.

Academic Grievances

Gulf Coast Community 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 Community 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 Community 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 Community College has designated the director of student services 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 Community 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 Community 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 Community 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 Community 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 Community 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 Community 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 Community 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 Community 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 20202-4605

At its discretion, Gulf Coast Community 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 Community 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.

Student Social Security Numbers

In compliance with FL Statute 119.071 (5), Gulf Coast Community College collects and uses your Social Security Number only for purposes in performance of the College's duties and responsibilities. Your Social

Security Number will not be provided to unauthorized parties, and GCCC provides each student a unique GCCC Student Identification (ID) Number that is NOT the Social Security Number. The GCCC Student ID Number is to be used for all transactions at the College. 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.

Student ID Numbers

All GCCC 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 OASIS for your first access to your online records. All college transactions will require the student to provide their ID number.

Degree Audit

The Institutional Degree Audit is a program that matches a student's academic history against a specific GCCC 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 web registration, or by requesting a copy of their degree audit from an adviser located in the A. E. Gardner Advising Center.

Campus Security Information

Campus security and safety are important for students, staff, and visitors to Gulf Coast Community 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, extension 3111, from any college phone or 774-2705.
- 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 Classroom Building.

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 2005, 2006, and 2007. 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.

CAMPUS CRIME REPORT STATISTICS NUMBER OF OFFENSES REPORTED

OFFENSES	2005	2006	2007
Homicide	0	0	0
Sex Offenses, Forcible	0	0	0
Robbery	0	0	0
Burglary/Breaking Entering	3	2	1
Larceny/Theft	1	0	0
Motor Vehicle Theft	0	2	0
Illegal Weapons	0	0	0
Drug Law Violations	2	0	0
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 community College may be obtained in the Office of the Vice President of Student Support and Enrollment Management 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 Community 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 Activities Board

The Student Activities Board (SAB) serves as the student governance group on campus. The SAB 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 Junior Colleges Student Government Association (FJCSGA), a statewide organization representing and involving all of Florida's community colleges. The purpose of the board 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 SAB coordinates, encourages, and promotes participation in extracurricular and co-curricular activities. Application criteria for membership on SAB are available in the Student Activities Office in the Student Union East.

Athletics and Recreation

Gulf Coast Community College has a highly successful intercollegiate athletic program. The Gulf Coast Community 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 Community 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 Community College students are encouraged to participate in plays, musicals, choral and band organizations, and art activities.

Campus Organizations

GCCC 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 Community 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 GCCC 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 who have provided the Admissions and Student Records Office with all the required admission credentials and have been accepted into their declared programs.

Freshman: Students enrolled in college credit courses who have completed 24 or less credit hours of college work.

Sophomore: Students enrolled in college credit courses who have completed 25 or more credit hours of college work.

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 GCCC's Web Registration 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.
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 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, 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.

Academic Grade Amnesty

Credit students with previous coursework that is ten years old or older may seek Academic Grade Amnesty (AGA), which will remove the effect of those credits on the grade point average (GPA). AGA applies to all credits and grades earned at Gulf Coast Community College and any other previously attended colleges or universities that are ten years old or older. Students may not select specific terms, specific courses, or specific grades for removal. AGA will apply to all coursework that is ten years old or older from the point selected in the student's transcript. All credits completed prior to that semester will be removed.

The student granted AGA would not be permitted to count any of the affected courses for graduation purposes, program completion, or to meet pre-requisite requirements. All other restrictions relating to repeating courses and maximum attempts will remain in force despite the granting of AGA, and compliance with other applicable college policies will be expected.

All courses and grades affected by AGA will remain on the official GCCC transcript even though the grades are not used in calculating the grade point average. A notation of the Academic Grade Amnesty will be posted to the student's permanent record and will appear on the official transcript.

This action is permanent and for GCCC academic purposes only. Other colleges and universities may not accept the ruling and count all coursework when calculating the student's GPA. AGA is granted to currently enrolled students only. Eligible students may inquire about AGA in the Office of Enrollment Services.

Attendance

Students who are absent from a credit class more than one eighth of the course without the instructor's permission shall be withdrawn. Please consult with class instructors for specific class attendance and grading policies.

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 Community 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. There are two kinds of withdrawals---student and administrative.

- Student Withdrawal - Student completes a withdrawal form and submits the form to the Office of Admissions and Records before the scheduled withdrawal deadline published in the college catalog. Student withdrawals initiated prior to the scheduled withdrawal deadline will be recorded as "W."
- Administrative Withdrawal - This withdrawal is completed by an instructor for excess absences (see Attendance Policy) or upon the request of the student to the instructor after the scheduled withdrawal deadline published in the college catalog. Administrative withdrawals initiated after the published withdrawal deadline will be recorded as "W" if passing and "F" if failing. 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 the instructor and a developmental academic adviser.

Graduation Procedures

1. Fulfill academic program requirements for degree to include a minimum 25 percent of credit successfully completed at GCCC. The catalog under which a student graduates cannot be older than five years.
2. Earn a 2.00 grade point average on all GCCC courses attempted.
3. Earn a cumulative 2.00 grade point average (including transfer credit).
4. Associate in Arts degree graduates must 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
5. 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.

6. Submit paid graduation application to Vice President of Student Support and Enrollment Management office by published deadline (see college calendar for dates).
7. Fulfill all financial obligations to the college.

Maximum Course Load

The college recommends an average of 15-18 credit hours for Fall/Spring and 8 credit hours per Summer term. Students with "B" averages may carry additional credits with approval from the director of student support services.

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 Prospective Students, click on Transcripts, click on Outgoing Transcript Request Form from GCCC for a copy of the form.

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 Community 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 Community 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 Community 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 evaluation specialist in the Office of Admissions and Records and online at the GCCC website (www.gulfcoast.edu) under *Prospective Students* 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 evaluation specialist in the Office of Admissions and Records and online at the college website (www.gulfcoast.edu) under *Prospective Students* 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 evaluation specialist in the Office of Admissions and Records and online at the college website (www.gulfcoast.edu) under *Prospective Students* and click on the **testing option**.

International Baccalaureate (IB)

A list of courses and credits awarded for each examination is available from the transcript evaluation specialist in the Office of Admissions and Records and online at the college website (www.gulfcoast.edu) under *Prospective Students* 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 evaluation specialist 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. GCCC 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 GCCC 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 GCCC 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 evaluation specialist in the Office of Enrollment Services.

Servicemembers Opportunity College (SOC)

The American Association of Community Colleges has designated Gulf Coast Community College as a Servicemen's Opportunity College (SOC). Under this agreement, GCCC 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 GCCC 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 GCCC. For more information, please call (850) 283-4332.

Standards of Academic Progress

- 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 Probation. A student will be placed on academic probation if any one of the following conditions is present:

- 13-35 credit hours attempted and cumulative grade point average below 1.50
- 36-45 credit hours attempted and cumulative grade point average below 1.75
- 46 or more credit hours attempted and cumulative grade point average below 2.00
- 18-36 credit hours attempted and less than 50 percent completion rate. (Students on financial aid must have a 67 percent completion rate.)

Academic Suspension. A student will be placed on academic suspension if any one of the following conditions is present:

- 36-45 credit hours attempted and grade point average below 1.50
- 46 or more credit hours attempted and grade point average below 1.75
- 37 or more credit hours attempted and less than 50 percent completion rate. (Students on financial aid must have a 67 percent completion rate.)

Suspension Waiver. A student may appeal an academic suspension by participating in an academic appeals hearing with members appointed by the Vice President of Student Support and Enrollment Management. Through the appeals procedures, the committee will establish re-enrollment conditions and monitor the student's academic progress.

B. 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 GCCC need-based aid at Gulf Coast Community 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.

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.

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 GCCC. In addition, a student must earn a minimum cumulative GPA of 2.00 on all GCCC courses.
5. Complete 25 percent of college-level credit hours at GCCC (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)

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

- 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	
+ PHY1023, Survey of General Physics	
+ PHY2048, University Physics I	
+ PHY2053, College Physics I	
+ PSC2341, Physical Science Survey	
ESC2000, Earth and Space Science Survey or higher level physical science courses as approved by adviser	
Biological Sciences (Choose One).....	3

- + 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	
*+ PHI2002, Introduction to Modern and Contemporary Philosophy	
*+ PHI2600, Ethics	
*+ PHI2635, Biomedical Ethics	
*+ REL2000, Introduction to Religion	
*+ REL2121, Introduction to Religion in America	
*+ REL2300, Religions of the World	
*+ 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	

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

***Mathematics**.....6
 (At the level of STA, MAC, or MGF as approved by adviser and/or defined by major.)

****Foreign Language and/or +Approved Electives**24
 (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 required. See course descriptions in catalog.
 * Minimum grade of "C" required.

**TRANSFER TRACK/ACCOUNTING
(ACCTG-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 40 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

ELECTIVES.....9

(Recommended Elective QMB 2100; Students who have successfully completed STA2023 do not need to take QMB2100.)

TOTAL DEGREE HOURS.....60

NOTE: QMB2100 does NOT meet the College-Level Academic Skills requirement for computation.

**TRANSFER TRACK/AGRICULTURAL SCIENCE
(FARM-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 40 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.)	
+ CHM1045, 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.....	3

ELECTIVES..... 4

TOTAL DEGREE HOURS..... 60

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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

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

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 40 for the potential courses.

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

COMMON COURSE PREREQUISITES	
ANT2000, Anthropology.....	3

ELECTIVES	21
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RECOMMENDED ELECTIVES	
GEO1000, Introduction to Geography.....	3
EUH1001, Western Civilization II.....	3

TOTAL DEGREE HOURS	60
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TRANSFER TRACK/ARCHITECTURE (ARCH-AA)

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+*ENC1101, English Composition I.....	3
+*ENC1102, English Composition II.....	3
+*MAC1140, Pre-Calculus Algebra	3
+*MAC2311, Calculus I	4
EUH 1000 or 1001, Western Civilization.....	3
PSY 2012 or SYG2000 Psychology/Sociology	3
POS2041, American National Government	3
+ ARH2000, Understanding Visual Art.....	3
(Meets Humanities I requirement)	
+ ARH2050, Art History I.....	3
+*ENL2012, English Literature.....	3
(Meets Humanities III requirement)	

For the following courses, students have several options to meet the needed requirement. See page 40 for the potential courses.

+ Biology.....	3
+ Humanities II	3

COMMON COURSE PREREQUISITES	
ART1300C, Drawing I.....	3
+ ART1201C, Design I.....	3
+ ART1203C, Design II.....	3
+ TAR1120, Architectural Drafting & Lab.....	4
+ TAR2154, Commercial Arch Design & Lab	4
+ ETG2530, Strength of Materials	3
+ ETG2502, Statics	3
BCN1230, Materials and Methods.....	3
+ PHY2053, College Physics & Lab	4

TOTAL DEGREE HOURS	67
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NOTE: Students must enroll in summer term at FAMU prior to their junior year.

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

TRANSFER TRACK/ART (ART-AA)

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

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 40 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
+ ART1950, Portfolio Preparation for Visual Arts I.....	1
+ ART1951, Portfolio Preparation for Visual Arts II.....	1

ELECTIVES

Approved visual arts or photography electives.....4

TOTAL DEGREE HOURS60

TRANSFER TRACK/BIOLOGY (BIO-AA)

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

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 40 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 required. See course descriptions in catalog.

* Minimum grade of "C" required.

**TRANSFER TRACK/BUILDING CONSTRUCTION
(BLCON-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 40 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 required. See course descriptions in catalog.

* Minimum grade of "C" required.

TRANSFER TRACK/BUSINESS ADMINISTRATION (BUS-AA)

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* Approved mathematics (MAC/STA)	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 40 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

(Recommend Elective QMB2100; Students who have successfully completed STA2023 do not need to take QMB2100.)

TOTAL DEGREE HOURS 60

NOTE: QMB2100 does NOT meet the College-Level Academic Skills requirement for computation.

TRANSFER TRACK/BUSINESS TEACHER EDUCATION (BSTHR-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 40 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 advisor.

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

TOTAL DEGREE HOURS 60

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

TRANSFER TRACK/CHEMISTRY (CHEM-AA)

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

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 40 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

ELECTIVES ¹	6
OR	
+*PHY2048, University Physics I.....	4
PHY2048L, University Physics I Lab.....	1
PHY2049, University Physics II.....	4
PHY2049L, University Physics II Lab.....	1
ELECTIVES ²	6
OR	
+*PHY2053, College Physics I	3
PHY2053L, College Physics I Lab	1
PHY2054, College Physics II	3
PHY2054L, College Physics II Lab	1
ELECTIVES ²	8
TOTAL DEGREE HOURS	60

¹University Physics is required for advanced degrees in chemistry.

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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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

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

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 40 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)**

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 40 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

+ 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
Choose one of the following	3
ECO2023, Economics, Micro	
AMH2010, United States History I	
AMH2020, United States History II	

TOTAL DEGREE HOURS 60

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

TRANSFER TRACK/COMMUNICATION

Journalism Option (JOURN-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 40 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
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RECOMMENDED ELECTIVES

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

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

TOTAL DEGREE HOURS	60
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TRANSFER TRACK/COMMUNICATION

Radio/Television Broadcasting Option (RTV-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students as media creators, writers, and practitioners in radio, television, and the multimedia. Students will participate in real-time laboratory experiences and classroom exercises that introduce them to media outlets in the community as well as on-air and production work for WKGC-AM/FM, the public radio stations associated with Gulf Coast Community 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 40 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
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RECOMMENDED ELECTIVES

RTV1000, Electronic Media Survey or	
MMC1000, Survey of Mass Communication.	3
RTV1240, Basic Audio Production	3
+ RTV1241, Basic Video Production.....	3
+ MMC2100, Writing for Mass Communication	3

(Recommended elective RTV2300L, Broadcast News Lab. Students wishing to transfer to a four-year Florida school should be aware of AMH2010, AMH2020, and ECO2013 requirements by some institutions.)

TOTAL DEGREE HOURS	60
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+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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

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

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 40 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
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RECOMMENDED ELECTIVES

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

TOTAL DEGREE HOURS	60
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**TRANSFER TRACK/COMPUTER SCIENCE
(CMPBU-AA)**

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 40 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
+ COP2120, COBOL Programming	3
COP2250, Java Programming	3
* ACG2001, Financial Accounting I	3
+* ACG2011, Financial Accounting II	3
ECO2023, Economics, Micro	3
ECO2013, Economics, Macro	3
+ ACG2071, Managerial Accounting	3

TOTAL DEGREE HOURS	60
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NOTE: QMB2100 does NOT meet the College-Level Academic Skills requirement for computation.

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**TRANSFER TRACK/COMPUTER SCIENCE
MATH-SCIENCE OPTION
(CMPS-C-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 40 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 and	3
BSC2011L, Biology for Science Majors II Lab	1
+* MAC2311, Calculus I.....	4
+* MAC2312, Calculus 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
+ COP XXXX, Programming Language.....	3

ELECTIVES..... 7
 SPC1608, Intro to Public Speaking; COP2250, Intro to Java Programming; CGS1570, Microcomputer Applications are recommended electives.

TOTAL DEGREE HOURS..... 60

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

AREA OF CONCENTRATION: Criminology and criminal justice encompass the scientific study of crime, criminals, the lawmaking process, the criminal justice system, and the treatment of offenders. Completion of the track leads to an Associate of Arts degree, which constitutes the first two years of a Bachelor of Arts or Bachelor of Science degree (a four-year degree). Students may complete the remaining two years of the four-year degree in criminology at Florida State University's Panama City campus 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).....	6
+* 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 40 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
CJL2100, Criminal Law	3
CJC2162, 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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

+ 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.

TRANSFER TRACK/DENTAL MEDICINE (DENT-AA)

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

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 40 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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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

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

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 40 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	8
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ELECTIVES	10
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RECOMMENDED ELECTIVE

+*STA2023, Statistics (Meets one General Education math requirement)	3
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TOTAL DEGREE HOURS	60
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**TRANSFER TRACK/ECONOMICS FOR BUSINESS
(ECOBS-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 40 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
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(Recommend Elective QMB2100; Students who have successfully completed STA2023 do no need to take QMB2100.)

TOTAL DEGREE HOURS	60
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NOTE: QMB2100 does NOT meet the College-Level Academic Skills requirement for computation.

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

TRANSFER TRACK/ELEMENTARY TEACHER EDUCATION (ELTCH-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 GCCC 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 40 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
AMH2010, 2020, American History
Physical Science (PSC, PHY, CHM)
Science Lab

TOTAL DEGREE HOURS 60

TRANSFER TRACK/ENGINEERING (ENGNR-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 40 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 4

TOTAL DEGREE HOURS 60

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**TRANSFER TRACK/ENGLISH
(ENGLH-AA)**

program at a university should take EDF1005, EDF2085, and EME2040.)

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.

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 40 for the potential courses.

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

OPTION 1: English General

COMMON COURSE PREREQUISITES

2 classes (beyond the General Ed requirement of ENC1101, ENC1102, and LIT) with 6000 word writing requirement taught in Language & Literature Division English courses beginning with

AML, ENG, ENL, LIT, and CRW	6
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ELECTIVES 18

OPTION 2: English Teacher Education

COMMON COURSE PREREQUISITES

2 classes(beyond the General Ed requirement of ENC1101, ENC1102, and LIT) with 6000 word writing requirement taught in Language & Literature Division English courses beginning with

AML, ENG, ENL, LIT, and CRW	6
+ SPC1608, Introduction to Public Speaking	3

ELECTIVES..... 15

RECOMMENDED ELECTIVES

- + MMC2100, Writing for Mass Communication
- + Foreign Language (2200)
(Meets Humanities II requirement for A.A.)

(Students should select from classes such as first year of a foreign language (if necessary) and humanities courses. Students interested in entering an English education

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

TRANSFER TRACK/ENTOMOLOGY (ENTOM-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 40 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

TOTAL DEGREE HOURS 60

TRANSFER TRACK/ENVIRONMENTAL SCIENCE: NATURAL SCIENCE OPTION (ENVNS-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 40 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

¹GCCC strongly recommends that EVR1001 be completed before transferring.

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

TRANSFER TRACK/ENVIRONMENTAL SCIENCE: POLICY OPTION (ENVRP-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 40 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

¹GCCC strongly recommends that EVR1001 be completed before transferring.

TRANSFER TRACK/FOREIGN LANGUAGE (FORLG-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 40 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

TOTAL DEGREE HOURS 60

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**TRANSFER TRACK/FORESTRY
(TREE-AA)**

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

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 40 for the potential courses.

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

COMMON COURSE PREREQUISITES

+ PHY1023, 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

TOTAL DEGREE HOURS 60

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

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

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 40 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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

TRANSFER TRACK/HEALTH EDUCATION (HLTH-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in health education or other health related fields such as health management, counseling, nutrition and community health. The four year degree will lead to certification in teaching health education. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend. Students may have additional requirements for admission to a teacher-preparatory program. Please contact a GCCC 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 40 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

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 40 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)

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)

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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

BSC2086L, Anatomy and Physiology II Lab	1
Physical Science.....	3
Electives	9

HEALTH SCIENCE OPTION (HS-AA)

This program is designed to prepare students for upper division studies in health science at UWF which in turn will prepare them for jobs in a health service field.

Concentrations are available in Aging Studies, Allied Health, Communication, Health Care Administration, Health Care Ethics, Health Care Professional, Medical Information Technology, and Psychology of Health.

+* MAC1105, College Algebra	3
+* STA2023, Statistics	3
ECO2013, Economics, Macro	3
ECO2023, Economics, Micro.....	3
PSY2012, Psychology	3
Biological Science	3
Biological Science Lab.....	1
+* CHM1045, General Chemistry.....	3
(Meets physical science requirement for A.A.)	
CHM1045L, General Chemistry I Lab.....	1
Electives	4
TOTAL DEGREE HOURS	60

TRANSFER TRACK/HISTORY (HIST-AA)

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

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 40 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

ELECTIVES 18**RECOMMENDED ELECTIVE**

GEO1000, Introduction to Geography	3
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TOTAL DEGREE HOURS 60

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

TRANSFER TRACK/INFORMATION TECHNOLOGY (LIS-AA)

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

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English II.....	3
+* MAC1105, College Algebra.....	3
+* Approved mathematics (MAC/STA)	3
EUH1000 or 1001, Western Civilization	3
PSY2012, Psychology.....	3
POS2041, American National Government.....	3
+* PHI2600, Ethics	3

For the following courses, students have several options to meet the needed requirement. See page 40 for the potential courses.

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

COMMON COURSE PREREQUISITES

ECO2013, Economics, Macro.....	3
+ CGS1544, Microsoft Access	3
COP2250, JAVA Programming	3
COP2120, COBOL Programming	3
COP1332, Intro/Visual Basic.....	3

ELECTIVES..... 6
(Recommend Elective QMB2100; Students who have successfully completed STA2023 do no need to take QMB2100.)

(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

NOTE: QMB2100 does NOT meet the College-Level Academic Skills requirement for computation.

TRANSFER TRACK/LANDSCAPE OPERATIONS AND MANAGEMENT (LANDS-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 40 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, Fundamentals 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

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

LAW

AREA OF CONCENTRATION: Gulf Coast Community 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.

TRANSFER TRACK/LEGAL STUDIES (LGLST-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 40 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.

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**TRANSFER TRACK/MARINE BIOLOGY
(MARBI-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 40 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)**

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 41 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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

(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

TRANSFER TRACK/MATHEMATICS EDUCATION (MTHED-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 GCCC 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.

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 40 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

+ Prerequisites required. See course descriptions in catalog.
 * Minimum grade of "C" required.

RECOMMENDED ELECTIVES:

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

TOTAL DEGREE HOURS 60

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

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

It is extremely important to remain in contact with a medical academic adviser no matter which 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 40 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.)	

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

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

TRANSFER TRACK/MEDICAL TECHNOLOGY (MEDTC-AA)

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies in medical technology programs. These upper division programs include a year of clinical studies which may be completed within the two years 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. 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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* MAC1105, College 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 40 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
+* CHM2211, Organic Chemistry II	4
CHM2211L, Organic Chemistry II Lab	1
+ MCB2004, Microbiology	3
MCB2004L, Microbiology Lab	1
TOTAL DEGREE HOURS	60

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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

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

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

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 41 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)**

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 GCCC 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 40 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:

- +* BSC2010/L and

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

+* 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)**

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 40 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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**TRANSFER TRACK/NURSING
(NURSE-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 GCCC 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 40 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)**

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 40 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.

TRANSFER TRACK/OCCUPATIONAL THERAPY (OCCTH-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 41 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 required. See course descriptions in catalog.

* Minimum grade of "C" required.

**TRANSFER TRACK/OCEANOGRAPHY
(OCEAN-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 40 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..... 2

TOTAL DEGREE HOURS..... 60

**TRANSFER TRACK/OPTOMETRY
(OPTO-AA)**

AREA OF CONCENTRATION: This transfer track is designed to prepare students who plan to become doctors of optometry. The course-work listed below must be completed prior to applying for admission to optometry school. Although a bachelor's degree is not required for admission to a college of optometry, it is highly recommended. Students may major in any area of studies, but must have an in-depth knowledge of biology and chemistry in order to master the optometry curriculum. Most students elect to major in biology or a related field at the university. Although a student may attend any university for the bachelor's degree, the only school of optometry in Florida at this time is Nova Southeastern University School of Optometry. Seventeen states have schools of optometry, and each school may have slightly different requirements. The student is expected to become familiar with the requirements of the specific school to which admission is sought. The student should see the optometry 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 40 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..... 60

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**TRANSFER TRACK/ORNAMENTAL HORTICULTURE
(PLANT-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 40 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)

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 40 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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

+* CHM1046, Chemistry with Qual. Analysis	3
CHM1046L, Chemistry with Qual. Anal. Lab.....	2
+* PHY2053, College Physics I.....	3
PHY2053L, College Physics I Lab.....	1
+* PHY2054, College Physics II.....	3
PHY2054L, College Physics II Lab.....	1
+* Approved Organic Chemistry	4
TOTAL DEGREE HOURS	60

TRANSFER TRACK/PHILOSOPHY (PHIL-AA)

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

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 40 for the potential courses.

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

ELECTIVES

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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

TRANSFER TRACK/PHYSICAL EDUCATION (PE-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in teaching physical education in grades K - 12 or other related fields such as sports business specialization, fitness management specialization, coaching specialization, and athletic training specialization. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend. Students may have additional requirements for admission to a teacher-preparatory program. Please contact a GCCC 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.

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 40 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 required. See course descriptions in catalog.

* Minimum grade of "C" required.

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

AREA OF CONCENTRATION: This transfer track is designed to prepare students for upper division studies in physical therapy. In Florida, the physical therapy programs are five years in length and lead to M.S. degrees in physical therapy: The UF, FAMU, UCF, UNF, and FIU offer degrees in physical therapy. All schools require that students successfully complete the courses listed below. The programs are highly competitive, so students are advised to maintain a minimum GPA of 3.0, although a higher GPA is needed to meet minimum standards at some of the schools. Students must also complete volunteer time under the supervision of a registered physical therapist. Some schools also require their applicants to take the Allied Health Professions Admissions Test. Check with the program 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 40 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)**

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 Community 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 40 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 required. See course descriptions in catalog.

* Minimum grade of "C" required.

**TRANSFER TRACK/POLITICAL SCIENCE
(POLSC-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 40 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)**

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

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 40 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

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

single foreign language in high school, you may be able to begin the second year, first semester foreign language. See your foreign language instructor for details and permission. Florida State University also requires SPC1608, Introduction to Public Speaking. FSU requires psychology students to take STA2122. If you have taken the required six hours of mathematics for the AA at Gulf Coast and have not taken this course, FSU will give you upper level credit for the course when you complete it. FSU also requires a diversity course, such as LIT 2380 Women in Literature.

**TRANSFER TRACK/RADIOLOGIC SCIENCE
(RADSC-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 40 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
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+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**TRANSFER TRACK/RECREATION
(RECRE-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 40 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**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**

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**TRANSFER TRACK/RELIGION
(RELIG-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 Community 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 40 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)**

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 40 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 required. See course descriptions in catalog.

* 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 GCCC 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. 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 40 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)

+* 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)

+* 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)

+* 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)

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 required. See course descriptions in catalog.

* 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)
See Middle School Science Education

TOTAL DEGREE HOURS 60

TRANSFER TRACK/SOCIAL STUDIES EDUCATION (SOCST-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 GCCC 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 40 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 required. See course descriptions in catalog.
 * Minimum grade of "C" required.

TRANSFER TRACK/SOCIAL WORK (SOCWK-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 40 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.

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

TRANSFER TRACK/SOCIOLOGY (SOCIO-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 40 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

TRANSFER TRACK/SPECIAL EDUCATION (CASE-AA)

AREA OF CONCENTRATION: The purpose of this transfer track is to prepare students for a career in teaching children and youth who are intellectually, emotionally, or behaviorally disabled. Special education is a limited access program at most Florida universities. Students are encouraged to be familiar with the admissions requirements at the university they plan to attend. Students may have additional requirements for admission to a teacher-preparatory program. Please contact a GCCC 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 40 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)

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 40 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
+* CHM1045L, General Chemistry Lab	1

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

+ 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)**

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 40 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 required. See course descriptions in catalog.

* Minimum grade of "C" required.

TRANSFER TRACK/VETERINARY MEDICINE (VET-AA)

AREA OF CONCENTRATION: This transfer track is designed for students seeking admission to a program of veterinary medicine. The College of Veterinary Medicine at the University of Florida requires 80 semester hours of college-level course work before entering. However, most successful applicants have completed a bachelor's degree. Most veterinary medicine programs require applicants to have taken the Graduate Record Examination (GRE). Grades of C or better are required on all professional courses; however, most successful applicants have a GPA in excess of 3.5. Academic performance, approved work experience, and professional potential are all considered by selection committees as they review applicants for veterinary medicine. Pre-vet students are urged to review the entrance requirements for the veterinary program of their choice. Students are strongly urged to see the pre-vet 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 40 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)

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 40 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 required. See course descriptions in catalog.

* Minimum grade of "C" required.

Workforce Degree Programs

Gulf Coast Community 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 Technical 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 GCCC 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:

- Building Construction Technology
- Business Administration and Management
- Dental Hygiene
- Electronics Engineering Technology
- Emergency Medical Services
- Fire Science Technology
- Music Production Technology
- Nursing
- Physical Therapist Assistant

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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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:

- Accounting Technology
- Business Administration and Management
- Civil Engineering Technology
- Computer Integrated Manufacturing Technology
- Computer Programming and Analysis
- Crime Scene Technology
- Criminal Justice Technology
- Culinary Management
- Digital Media/Multimedia Technology
- Drafting and Design Technology
- Early Childhood Education
- E-Business Technology
- Hospitality Management
- Internet Services Technology
- Legal Assisting/Paralegal
- Network Services Technology
- Office Administration
- Radiography
- Respiratory Care (Therapy)
- Sonography, Diagnostic Medical

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 Technical Diploma and Technical 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 Technical Diploma

Emergency Medical Technician

Technical Certificates

Accounting Applications
 Business Data Processing
 Computer & Network Security
 Computer Integrated Manufacturing
 Florida Child Care Professional Credential
 Office Management
 Paramedic

College Credit Certificates

These certificate programs consist of coursework that is not a part of a specific Gulf Coast Associate in Science or Associate in Applied Science degree. These certificates require a maximum of one year of study and indicate that a student has acquired specific skills necessary for employment.

College Credit Certificates

Alternative Energy Engineering Technology
 Audio Technology
 AutoCAD Foundations Technology
 Crime Scene Technician
 Digital Media/Multimedia Production
 Sonography, Diagnostic Medical

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

Magnetic Resonance Imaging
 Massage Therapy
 Registered Nursing First Assistance

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).

Postsecondary Adult Vocational Certificates

Central Service Technology
 Certified Nursing Assistant
 Correctional Officer
 Dental Assisting
 Electrical Apprenticeship
 Firefighting
 Law Enforcement Auxiliary Officer
 Law Enforcement Officer
 Practical Nurse
 Private Security Officer
 Surgical Technology

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**ACCOUNTING TECHNOLOGY
(ACTG-AAS)**

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
+ BSC1005, General Biological Science	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
##+ CTS1205, Excel	3
# TAX1000, Principles of Taxation I.....	3
##+ TAX1010, Principles of Taxation II.....	3
ACG2450, Basic Computer Augmented Acct.....	3
ACG2500, Intro to Nonprofit/Govt Acct.....	3

ELECTIVES 4

TOTAL DEGREE HOURS..... 64

**ACCOUNTING APPLICATIONS
CERTIFICATE (ACCTG-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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**ALTERNATIVE ENERGY ENGINEERING TECHNOLOGY
CERTIFICATE (PENDING)**

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.
# EST1835, Introduction to Energy, Environment, and Society	3
# EST1831, Alternative Energy Inventory & Analysis	3
# EST1831L, Alternative Energy Inventory & Analysis Lab	3
+ # EST1800C, Solar Energy	3
+ # EST1840, Geothermal Energy	3
+ # EST1821, Biofuels and Biomass.....	3
TOTAL CERTIFICATE HOURS	18

**AUDIO TECHNOLOGY COLLEGE CREDIT CERTIFICATE
(AT-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 required. See course descriptions in catalog.
* Minimum grade of "C" required.

**AUTOCAD FOUNDATIONS
TECHNOLOGY COLLEGE CREDIT
CERTIFICATE
(ATCD-CCC)**

AREA OF CONCENTRATION: The purpose of this program is to provide students with the necessary knowledge and skills to assist architects and engineers in preparing and detailing construction drawings and contract documents. Computer aided drafting techniques using AutoCAD™ and Civil 3D™ are emphasized.

COURSES	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)**

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
+* MAC1114, Plane Trigonometry	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.....	3
# ETC2450, Concrete Design	3
# ETC2450L, Concrete Design Lab	1
BUL2241, Business Law	3
+# ETD1320, AutoCAD or	
+# ETD2395, CAD for Architecture	3
# CGS1570, Microcomputer Applications.....	3

Subject specific cooperative education may be substituted with permission of adviser

TOTAL DEGREE HOURS 64

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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

AREA OF CONCENTRATION: Associate in Science to Bachelors in Science articulated program that may transfer to the following universities: FAMU, FAU, FGCU, FIU, UNF, UWF.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II	3
+* MAC2233, Calculus for Bus/Soc Sc.....	3
+* MAC1105, College Algebra	3
+ Humanities	3
PSY2012 or SYG2000, Psychology/Sociology	3

MAJOR COURSES

+* STA2023, Statistics or QMB2100, Business and Economic Statistics.....	3
+* ACG2001, Financial Accounting I	3
+* ACG2011, Financial Accounting II	3
+* ACG2071, Managerial Accounting I	3
CGS1570, Microcomputer Applications	3
ECO2013, Economics, Macro	3
ECO2023, Economics, Micro	3

PROFESSIONAL CORE COURSES 25

Includes a maximum of 12 hours in "business-label" courses (MAN, MAR, ACG, GEB, BUL).

TOTAL DEGREE HOURS..... 64

**BUSINESS ADMINISTRATION
& MANAGEMENT (BUS-AAS)**

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
Humanities	3
PSY2012 or SYG2000, Psychology/Sociology	3

MAJOR COURSES

GEB1011, Introduction to Business	3
+# QMB1001, College Business Math	3
CGS1570, Microcomputer Applications.....	3
+ OST1856, Word Processing w/MS Word	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

+ OST1102, Keyboarding & Doc. Processing II.....	3
+ MAR2011, Marketing	3
MAN2021, Prin. of Management	3
+# OST2335, Business Communications.....	3
TAX1000, Principles of Taxation I	3
+ ACG2071, Managerial Accounting.....	3
# CTS1205, Excel	3
ELECTIVES	1

Banking Specialization Option

(Select 21 credits for Banking Option)

# BAN1004, Prin. of Bank Operations.....	3
# BAN1114, Deposit Operations.....	2
# BAN1156, Letters of Credit.....	2
# BAN1210, Analyzing Financial Statements	3
# BAN1240, Consumer Lending.....	3
# BAN1500, Economics for Bankers	3
# BAN1531, Introduction to Supervision	3
+# BAN2231, Commercial Lending	3
# BAN2253, Mortgage Lending	2
# BAN2254, Mortgage Loan Documentation	2
# BAN2400, Trust Business.....	3
# BAN2403, Trust Investments.....	3
+# BAN2405, Trust Operations.....	3
# BAN2413, Securities Processing	3
# BAN2501, Money and Banking.....	3
# BAN2511, Marketing for Bankers.....	3
# BAN2532, Supervisory Training	3
# BAN2744, Bank Management	3
# BAN2800, Law and Banking Principles	2
# BAN2801, Law and Banking Applications	3

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

# BAN1251, Real Estate Finance	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

Real Estate Management Option

# REE1040, Real Estate Prin. Prac. and Law	4
# REE2180, FREAB Licensed Residential Appraisal Course	5
# BAN1251, Real Estate Finance	3
+ # MAR2011, Marketing	3
# MKA2511, Principles of Advertising	3
ELECTIVES	4
TOTAL DEGREE HOURS	64

**BUSINESS DATA PROCESSING
CERTIFICATE (DP-CT)**

AREA OF CONCENTRATION: The purpose of this program is to provide students with an opportunity to enter the field of information technology as entry level computer operators.

COURSES **Cr. Hrs.**

+* ENC1101, English I	3
+ # QMB1001, College Business Math OR MAT1033, Intermediate Algebra	3
OST1101, Keyboarding & Doc. Processing I	3
GEB1011, Introduction to Business	3
* ACG2001, Financial Accounting I	3
CGS1570, Microcomputer Applications	3
CGS1000, Intro. to Data Processing	3
COP 1332, Intro to Visual Basic.	3
# MNA1100, Human Relations	3
# CTS1205, Excel	3

ELECTIVES

TOTAL DEGREE HOURS

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

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

AREA OF CONCENTRATION: The purpose of this two-semester 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.
+* BSC1020, Human Biological Science	3
AND	
#* OST1257, Medical Terminology	2
OR	
+* STS1300, Surgical Anatomy and Physiology	5

MAJOR COURSES

=* HSC0005, Orientation to Health Sciences	1.5 v
+=* HSC0005L, Orientation to Health Sciences Lab	0.5v
+*= HSC0431, Central Service Technology	3 v
+*= HSC0431L, Central Service Tech. Lab/clinical	2 v
+*= HSC0811L, Central Service Technology Clinical	5 v
+*= HSC0943, Central Service Specialty Topics	0.5 v
=* STS0804, Basic Microbiology	2 v

TOTAL HOURS 5crs/14v

APPLICATION PROCESS:

- A. Apply for admission to Gulf Coast Community College.
- B. Submit the Central Service Technology program application forms.
- C. Take TABE test as required in the Surgical Technology selection package.
- D. **Submit official transcripts from all previous colleges to the Office of Admissions and Records for evaluation.**
- E. Have two letters of reference mailed to the program director.
- F. Complete transcript analysis with course instructor as necessary (for previous training in Anatomy/Physiology and Medical Terminology may be substituted for BSC1005 and OST1257).

Minimum Requirements for Admission: Listed below are the specific requirements for admission to this program. It should be understood, however, that **only** the minimum requirements are given and that admission to this program is a selective process. The satisfaction of minimum requirements

does not automatically guarantee admission. When space is limited, preference may be given to students within the community college's assigned district.

1. **Recommended First Semester (FALL) Courses:**
Satisfactory completion with a grade of "C" or higher in HSC0005 and HSC005L Orientation to Health Sciences and Lab, BSC1020, Human Biology, and OST1257, Medical Terminology or the combination class STS1300 Surgical Anatomy and Physiology. (NOTE: Anatomy courses such as BSC2085 and BSC2086 or EMS2010 may be substituted for the Human Biology requirements). 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 as outlined in the selection package.
3. Proof of high school graduation or equivalent filed in the Office of Admissions and Records prior to completion of course.
4. Conference with adviser.
5. **Upon acceptance into the program, completion of medical examination form with satisfactory results.**
7. Certification in CPR by the American Heart Association or Red Cross Health Care Provider.

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

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

AREA OF CONCENTRATION: This certificate program is designed to provide the education and skill level necessary to qualify for the state Certified Nursing Assistant exam. The two courses for this training (165 clock hours) are available only at the Gulf Franklin Center in Port St. Joe, Florida. The core lecture classes are offered as hybrid (distance education).

The Certified Nursing Assistant program is a selective admission, limited enrollment program. Admission to Gulf Coast Community College does not imply acceptance into the Certified Nursing Assistant program.

Admission Requirements:

- Apply to Gulf Coast Community 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-AAS)**

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
CGS1570, Microcomputer Applications.....	3
+ ETD1320, AutoCAD.....	3
+ ETG2502, Statics.....	3
+ ETG2530, Strength of Materials	3
# BCT1040, Blueprint Reading.....	3
BCT2770, Constructing Estimating	3

General Option

General Education Courses	15
MAJOR COURSES.....	28

+* 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	

TOTAL DEGREE HOURS 63

Site Development Option

General Education Courses	15
MAJOR COURSES.....	28
# ETC2450, Concrete Design.....	3

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

#	ETC2450L, Concrete Design Lab.....	1
+	SUR2101, Surveying and Measurements.....	3
	SUR2101L, Surveying/Measurements Lab.....	1
	ETC2213, Eng. Prop. of Soils.....	3
	ETC2213L, Eng. Prop. of Soils Lab.....	1
+	CGN2327L, Civil Eng Graphics Lab.....	1
#	SUR2533C, Introduction to GPS.....	3
	TAR1120, Architectural Drafting.....	1
	TAR1120L, Architectural Drafting Lab.....	3
TOTAL DEGREE HOURS.....		63

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

AREA OF CONCENTRATION: The Computer and Network Security Technical Certificate is designed for individuals interested in beginning or advancing a career in computer/network security. Computer and Network Security technology is constantly changing and evolving, therefore learning in this field never ends. A strong emphasis is placed on working collaboratively in a team environment, effective communication and cultivating good customer service skills. Graduates of this certificate program could potentially obtain positions as Network Administrators or Network Security Engineers. As part of this program, students will have the opportunity to achieve recognized IT industry certifications such as Network+, Security+ and MSCE.

COURSES	Cr. Hrs.
+# CTS1134, Networking Essentials (Network+)	3
+# CTS1120, Computer & Network Security (Security +)	3
+# CTS1328, Managing and Maintaining a Microsoft Windows Server (MS 70-290)	3
# CTS2315, Firewalls and Network Security	3
# CTS2314, Network Defense and Countermeasures	3
# CTS2310, Designing Security for a Microsoft Server Network (MS 70-298)	3
# CTS2326, Implementing & Administering Security (MS 70-299)	3

Choose one of the following:

# CTS1133, Desktop Operating Systems A+ Software (MS 70-620).....	3
# CTS1651, Router Technology (CISCO - CCNA).....	3
# CTS1325, Server Network Infrastructure (MS 70-291)	3
# CTS2304, Networking Services Planning and Maintenance (MS 70-293)	3
# CGS1103, IT Project Management (Project +)	3

TOTAL CERTIFICATE HOURS..... 24

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

COMPUTER INTEGRATED MANUFACTURING TECHNOLOGY (CIM-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

MAJOR COURSES 15

Computer & Electronics Classes

+ EET1015C, AC & DC Circuits I	4
+# CET1112C, Digital and Computer Circuits	4
+# EET1141C, Electronic Devices	4
CGS1570, Microcomputer Applications	3
COP2224, Introduction to C++ Programming	3
+# EST2542C, Programmable Logic Controllers.....	4
+# CTS1134, Ntwk Essentials (Network +)	3
.....	25

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
Approved Technical Elective	2
.....	24

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 GCCC on a part-time basis.

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)	
EST2535C, Process Control and Instrumentation.....	4
EST2650C, Industrial Networking	3
EET2280C, Data Acquisition & Control Sys	4
.....	15
Total Degree Hours	64

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**COMPUTER INTEGRATED MANUFACTURING
(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 PROGRAMMING AND ANALYSIS (COMP-AAS)

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

MAJOR COURSES

GE1011, Introduction to Business	3
* AC2001, Financial Accounting I	3
+* AC2011, Financial Accounting II	3
CGS1570, Microcomputer Applications	3
CGS1000, Intro. to Data Processing	3
# MNA1100, Human Relations	3
+ # OST2335, Business Communications	3
COP1332, Visual Basic	3
QMB1001, College Business Math OR	
MAT1033, Intermediate Algebra	3

Programming Option

+ COP2120, COBOL Programming	3
COP2224, Intro to C++ Programming	3
COP2250, Java Programming	3
+ CIS2321, Systems Analysis Design	3
+ # COP2121, Advanced COBOL OR	
COP2333, Advanced Visual Basic	3

ELECTIVES	6
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Small Business Applications Option

# CET2485, Networking Essentials Plus	3
+ # CTS1205, Excel	3
+ CGS1544, DataBase Mgt w/MS Access	3
+ OST1856, Word Proc. w/MS Word	3
ACG2450, Basic Computer Augmented Acct	3

ELECTIVES	6
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TOTAL DEGREE HOURS	63
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+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

CRIMINAL JUSTICE TRAINING ACADEMY

CORRECTIONAL OFFICER CERTIFICATION - VOCATIONAL CERTIFICATE (COROF-VC)

AREA OF CONCENTRATION: The purpose of this program is to prepare students for employment as correctional officers. The program includes courses mandated for certification as a correctional officer. 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 certification correctional officer examination. (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 Academy 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 GCCC attendance policy. For specifics, contact the program manager or 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
= CJK0101, C.O. Interpersonal Skills II.....	1.5v
= CJK0102, Correctional Facility Operations	2.0v
= CJK0270, C.O. Legal I.....	1.5v
= CJK0271, C.O. Legal II	1.0v

= CJK0272, C.O. Communications.....	1.5v
= CJK0280, Physical Fitness Training	1.3v
= CJK0283, C.O. Interpersonal Skills II	1.5v

TOTAL CERTIFICATE HOURS.....19v

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

+ Prerequisites required. See course descriptions in catalog.
 * Minimum grade of "C" required.

**CRIMINAL JUSTICE TRAINING ACADEMY
CRIME SCENE TECHNOLOGY A.A.S. DEGREE (CST-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 to include a fingerprint check.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II (or)	3
+* ENC2210, Technical Writing.....	3
POS2041, American National Government.....	3
Approved mathematics (MAC, MGF, STA)	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
CJL2100, Criminal Law.....	3
CJL2130, Evidence	3
# FFP1610, Fire Cause and Arson Detection	3
# FFP2401, Hazardous Materials I.....	3
# FFP2402, Hazardous Materials II.....	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 required. See course descriptions in catalog.

* Minimum grade of "C" required.

**CRIMINAL JUSTICE TRAINING ACADEMY
CRIME SCENE TECHNICIAN
COLLEGE CREDIT CERTIFICATE
(CST-CCC)**

AREA OF CONCENTRATION: The purpose of this program is to prepare individuals to work as an entry level crime scene technician. Students would typically find employment in a local, county, or state law enforcement agency.

PROGRAM ADMISSIONS REQUIREMENTS

This is a restricted entry program based upon special requirements needed to work for a Law Enforcement Agency.

- Citizen of United States.
- High school diploma or GED (transcript required).
- Not discharged from Armed Forces under dishonorable conditions.
- Good moral character and NOT have been convicted of a felony, or any misdemeanor involving lying or perjury.
- Submit to and pass background investigation to include a fingerprint check.

All courses must be satisfactorily completed to receive the certificate.

ALL OF THE FOLLOWING COURSES ARE REQUIRED FOR CERTIFICATION

COURSES	Cr. Hrs.
# CJT1110, Intro to Crime Scene Tech	3
+# CJT1111, Advanced Crime Scene Tech.	3
# CJT1220, Crime Scene Photography I	3
+# CJT1221, Crime Scene Photography II	3
# CJT2112, Crime Scene Safety.....	2
# CJT2113, Courtroom Presentation of Scientific Evidence	3
# CJT2141, Intro to Forensic Science	3
# CJT2240, Fingerprint Classification	3
+# CJT2241, Latent Fingerprint Development	3
+# CJT2260, Biological Evidence	2

TOTAL CERTIFICATE HOURS..... 28

**CRIMINAL JUSTICE TRAINING ACADEMY
CRIMINAL JUSTICE TECHNOLOGY
A.A.S. DEGREE (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).....	1
Computer Usage Elective.....	3
Approved Management/Supervision Elective	9
CJ, CJC, CJD, CJE, CJJ, CJL, CJT or other approved Electives	22
TOTAL CORE/ELECTIVE HOURS	46

Law Enforcement Option

CORE/ELECTIVE COURSES	Cr. Hrs.
LEBS (with passing SOCE).....	1
Computer Usage Elective.....	3
CCJ, CJC, CJD, CJE, CJJ, CJL or CJT Electives	28
TOTAL CORE/ELECTIVE HOURS	46

Crime Scene Technology Option

#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 required. See course descriptions in catalog.

* Minimum grade of "C" required.

**CRIMINAL JUSTICE TRAINING ACADEMY
LAW ENFORCEMENT AUXILIARY
OFFICER CERTIFICATE (LEAUX-VC)**

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."

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 GCCC 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.

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**CRIMINAL JUSTICE TRAINING ACADEMY
LAW ENFORCEMENT OFFICER CERTIFICATION
VOCATIONAL CERTIFICATE (LEOF-VC)**

AREA OF CONCENTRATION: The purpose of this program is to prepare students for employment as a law enforcement officer. This program includes courses mandated for law enforcement certification with the state of Florida. Students who graduate from this program would typically work as municipal, county, or state law enforcement officers. Courses within this program can also be used toward certification as a law enforcement officer. (NOTE: Must be 19 years of age by date of employment).

ADMISSIONS REQUIREMENTS

Admission requirements include the following:

- Citizen of United States.
- High School diploma or GED (transcript required).
- Not discharged from Armed Forces under dishonorable conditions.
- Good moral character and NOT have been convicted of a felony, or any misdemeanor involving lying or perjury.
- Physical examination by licensed physician, nurse practitioner or physician’s assistant attesting capability of performing essential functions of the officer position.
- Submit to and pass background investigation.
- Passing score on Florida Basic Abilities Test.

All courses in this program must be completed for certificate. A grade of 80% or higher is required to pass each course. Academy classes have specific attendance policies that may differ from the general GCCC 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
= CJK0017, Communications.....	2.5v
= CJK0011, Human Issues.....	1.3v
+ = CJK0020C, CMS L.E. Vehicle Operations.....	1.6v
+ = CJK0031C, CMS First Aid for CJ Officers	1.3v
= CJK0040C, CMS Crim. Just. Firearms.....	2.7v
= CJK0096, Crim. Just. Off. Physical Fitness	2.0v
= CJK0051C, CMS Crim. Just. Defensive Tactics	2.7v
= CJK0422, Dart-Firing Stun Gun.....	0.3v
+ = CJK0061, Patrol 1	1.9v
+ = CJK0062, Patrol 2	1.3v
+ = CJK0076, Crime Scene Investigations	0.8v
+ = CJK0071, Criminal Investigations	1.9v
+ = CJK0081, Traffic Stops.....	1.6v
+ = CJK0086, Traffic Crash Investigations	1.1v
TOTAL CERTIFICATE HOURS	25.7v

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

**CULINARY MANAGEMENT
(CHEF-AAS)**

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)

ADMISSION REQUIREMENTS

The following requirements must be completed:

- A. Application to the college.
- B. Make an appointment for personal interview with the program director. Out-of-state students may delay this interview but must complete the interview prior to start of classes.

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

**DENTAL ASSISTING CERTIFICATE
(DENTA-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 Accreditation 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 three semesters as a full-time student, or longer as a part-time student.

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 with Fall and Spring semester entrance opportunities. 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 August 1 for Fall entrance and December 15 for Spring entrance.

Provisional Admission Requirements:

- A. Application to Gulf Coast Community College.
- B. Application to dental assisting program (must be completed by August 1 for Fall and December 15 for Spring) which includes:
 - 1. Application form.
 - 2. TABE Test Scores (Successful completion of TABE is required for graduation.)
 - 3. Transcripts - High school and college. Students must have all college transfer credits evaluated by the Office of Admissions and Records. It is the student's responsibility to see that this is done.
- C. High School diploma or GED.

Requirements after Provisional Acceptance

- A. Report of Vaccination History to include:
 - Hepatitis B vaccine series or signed declination waiver
 - PPD Mantoux/TB Test: annually (May require chest radiograph if previously tested positive)
 - MMR
 - Tetanus (every 10 years)
- B. Copy of current Cardiopulmonary Resuscitation (CPR) for Healthcare Provider certificate.
- C. HIV Saliva test required for clinical rotation at military sites.

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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 applied 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 complete course work.

Transfer Policy

Applicants who wish to transfer from another Dental Hygiene/Dental Assisting Program to a GCCC Dental Program must : 1) meet all admission requirements, 2) apply at least two (2) months prior to the expected date of enrollment, and 3) notify the Assistant Coordinator in writing, stating anticipated entry date and reason for transfer. 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 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 to 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
=*	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, Radiology I.....	2
*#	DES1200L, Radiology Lab I.....	1
+*#	DES1201, Radiology II.....	1
+*#	DES1201L, Radiology II Lab.....	1
*#	DES1320, Basic Comm. and Human Rel.....	1
*#	DES1404, Anatomy and Physiology	2
*	DES1832, Expanded Functions	1
+*#	DES1832L, Expanded Functions Lab	1
*#	DEH1400, Oral Pathology	2

TOTAL CREDIT HOURS 19

TOTAL VOCATIONAL HOURS 28

TOTAL CERTIFICATE HOURS..... 47

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**DENTAL HYGIENE
(DENTH-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, especially the science courses, prior to seeking admission into the program. Because of limited enrollment, students are encouraged to apply in the fall for the next year’s class.

For more information about this program, visit the Health Sciences website!

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 Community College.
- B. 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.
- C. Official College transcripts (from each college or university attended) sent to the Office of Admissions and Records and evaluated by that office.
- D. Computerized Placement Test Scores (CPT) with a minimum score of 72 on the algebra portion or ACT/SAT equivalent or achieve a grade of “C” or better in MAT0024 or higher level algebra course.
- E. Completion of prerequisite courses with a minimum grade of “C”
 - 1. BSC 2085 Anatomy & Physiology I
 - 2. BSC 2085L Anatomy & Physiology I Lab
 - 3. ENC 1101 English
 - 4. HUN 1201 Nutrition.
- G. Application to Dental Hygiene program, which includes:
 - 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. Report of Vaccination History to include:
 - Hepatitis B vaccine series or signed declination waiver
 - PPD Mantoux/TB test: annually (May require chest radiograph if previously positive PPD Mantoux/TB test)
 - MMR
 - Tetanus (every 10 years)
- B. Copy of current Cardiopulmonary Resuscitation (CPR) for Healthcare Provider Certificate.
- C. HIV Saliva Test is required at the end of the fall semester of the sophomore year in preparation for clinical rotations at Eglin, Tyndall Air Force Base, or Hurlburt Field (Air Force Requirement).

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.

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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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, Radiology I	2
*# DES1200L, Radiology I Lab	1
+*# DES1201, Radiology II	1
+*# DES1201L, Radiology II lab	1
+*# DES1832, Expanded Functions.....	1
+*# DES1832L, Expanded Functions Lab.....	1
*# DEH1002, Fundamentals of Dental Hygiene	3
*# DEH1002L, 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.....	2
+*# DEH2602, Periodontics I	2
+*# DEH2702, Dental Public Health.....	2
+*# DEH2702L, Dental Public 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

**TECHNOLOGY
(DIG-AAS)**

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
EUH1000 or EUH1001, Western Civilization.....	3
PSY2012 or SYG2000, Psychology/Sociology	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
# DIG2280, Digital Video and Sound	3
+# DIG2284, Advanced Digital Video and Sound.....	3
MMC2100, Writing for Mass Communications	3
CGS2069, Internet Marketing	3
DIG2949, Digital Media COOP Education	3
+# DIG2580, Digital Media Portfolio.....	1

ELECTIVES—Select 15 Credits from the following courses

Graphic Design Technology

# GRA1100, Principles of Graphic Design	3
+# GRA2121, Desktop Publishing	3
# GRA2151, Drawing Techniques for Dig Ilustrat	3

Animation Gaming and Simulation

# DIG1710, Introduction to Game Development	3
+# DIG2430, Storyboarding and Conceptualizing	3
# DIG2040, Survey of Game Development.....	3
# CAP2028, Computer Game Programming.....	3
# DIG2302, 3D Modeling and Animation I.....	3
+# DIG2303, 3D Modeling and Animation II.....	3
# EST1603C, Projects in Robotics	3

Digital Video Production

# DIG2251, Intro to Digital Audio	3
# DIG2205, Basic Video Editing	3
+# DIG2410, Basic Scripting for Video	3

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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 GCCC 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)

DIG2280, Digital Video and Sound	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
DIG2284, Advanced Digital Video and Sound	3
CGS2069, Internet Marketing	3
DIG2300, 2D Animation	3
Digital Media Elective	3
.....	15

Semester 4 (Spring – January)

DIG2580, Digital Media Portfolio	1
DIG2949, Digital Media COOP.....	3
Digital Media Elective	3
Digital Media Elective	3
Digital Media Elective	3
.....	13

Summer A or B

EUH1001, Western Civilization I or	
EUH1002, Western Civilization II.....	3
PSY2012 or SGY2000, Psychology or Sociology.....	3

Total Degree Hours 64

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

AREA OF CONCENTRATION: The purpose of this program is to prepare students for initial employment as a digital media/multimedia production technician, digital media/multimedia developer, or to provide supplemental training for persons previously or currently employed in these or related occupations. Graduates of this certificate program could potentially obtain entry positions as graphic artist technician, animation/gaming/simulation technician, digital video production technician, or Web design technician. All courses in this program can be used in pursuit of the college’s Digital Media Associate of Applied Science degree.

COMBINATION of FIVE CLASSES **Cr. Hrs.**

Graphic Design Technology

#	GRA1100, Principles of Graphic Design	3
+ #	GRA2121, Desktop Publishing	3
#	GRA2151, Drawing Techniques for Digital Illustration	3
#	GRA2156, Computer Graphics for Digital Designers I.....	3
+ #	GRA 2157, Computer Graphics for Digital Designers II	3

Animation Gaming and Simulation

#	DIG1710, Intro to Game Development	3
+ #	DIG2040, Survey of Game Development.....	3
+ #	DIG2430, Storyboarding & Conceptualizing for Game Development	3
#	DIG2300, 2D Animation.....	3
+ #	DIG2302, 3D Modeling and Animation.....	3

Digital Video Production

#	DIG2251, Introduction to Digital Audio	3
#	DIG2205, Basic Video Editing	3
#	DIG2280, Digital Video and Sound	3
+ #	DIG2410, Basic Scripting for Video	3
+ #	DIG2284, Advanced Digital Video and Sound.....	3

Web Design

#	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 to the adviser listed above. Specific criteria for the portfolio are available from this adviser.

TOTAL CERTIFICATE HOURS..... 15

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

DRAFTING AND DESIGN TECHNOLOGY (DRFT-AAS)

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
CGS1570, Microcomputer Applications	3
+ ETG2502, Statics	3
+ ETG2530, Strength of Materials.....	3
+ ETD1320, Auto CAD	3
# GRA2156, Comp Graphics for Digital Design I.....	3
GRA2157, Comp Graphics for Digital Design II.....	3
+ Elective	1

MAJOR COURSES

Industrial Option

# ETD2357, Auto Desk Inventor or + 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
EGS1001, Intro. to Engineering.....	1

MAJOR COURSES

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
Elective	1
TOTAL DEGREE HOURS	62

e-BUSINESS TECHNOLOGY (EBT-AAS)

This program is for individuals who desire to build a successful e-Business or develop and e-Business within their organizations. Students in e-Business develop a breadth of knowledge related to developing an e-business, including business-to-business (B2B) and business to customer (B2C) initiatives, and understanding the key e-business technologies.

Students are also introduced to a variety of topics including assessing technical infrastructure requirements, understanding the impact of evolving legal and regulatory issues, strategies for obtaining funding, management, marketing, and selling.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I.....	3
+* ENC1102, English Composition II.....	3
+ BSC1005, General Biological Science.....	3
PSY2012/SYG 2000 Psy/Soc.....	3
Humanities	3

MAJOR COURSES

GEB1011, Introduction to Business	3
## QMB1001, College Business Math	3
# ACG2001, Financial Accounting I.....	3
CGS1570, Microcomputer Applications.....	3
COP2250, JAVA Programming	3
# GEB1136, Foundations in e-Business	3
## CGS2069, Internet Marketing.....	3
# GEB2138, e-Business Law and Ethics.....	3
## CGS1843, Starting a Business on the Internet	3
## GEB2139, e-Business Management.....	3
# CGS2820, HTML WEB Page Design	3
## CGS2821, Advanced Web Page Design.....	3
## CGS1871, Intro to Multimedia for the Web	3
## COP2840, Internet Programming	3

ELECTIVES (Choose two of the following)

ART2600, Computer Imaging I.....	3
## CNT1401, Intro to Network Security	3
## CGS1103, Project Management	3
## CET2485, Networking Essentials Plus	3

TOTAL DEGREE HOURS 63

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

EARLY CHILDHOOD EDUCATION (CHLD-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).

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
# 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

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

ELECTRICAL APPRENTICESHIP (APREL-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 Internship Summer 2	18v
= BCA0354, Electrical Apprenticeship 5.....	3v
= BCA0364, Electrical Internship 5	21v
= BCA0355, Electrical Apprenticeship 6.....	3v
= BCA0365, Electrical Internship 6	21v
= BCA0366, Electrical Internship Summer 3	18v
= BCA0356, Electrical Apprenticeship 7.....	3v
= BCA0367, Electrical Internship 7	21v
= BCA0357, Electrical Apprenticeship 8.....	3v
= BCA0368, Electrical Internship 8	21v
= BCA0369, Electrical Internship Summer 4	18v
= BCA0340, Electrical Apprenticeship 9.....	3v
= BCA0345, Electrical Internship 9	21v
= BCA0341, Electrical Apprenticeship 10.....	3v
= BCA0346, Electrical Internship 10	21v
= BCA0347, Electrical Internship Summer 5	18v

TOTAL VOCATIONAL HOURS330 v

**ELECTRONICS ENGINEERING
TECHNOLOGY (ELEC-AS)**

AREA OF CONCENTRATION: This program is designed to prepare electronics software technicians for various electronics careers working in the areas of electronics circuits prototyping, programming embedded systems for military contracting, product testing, instrumentation, audio and video systems, communications, computers and networking, technical sales, etc. Technicians design, build, test, program, modify, install, troubleshoot, calibrate and maintain electronic systems.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English Composition II	3
+* MAC1105, College Algebra	3
+* MAC1114, Plane Trigonometry.....	3
+ Humanities	3
Social Science Electives	6
.....	21

MAJOR COURSES

Computer & Electronics Core Classes

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

Electronics Engineering Technology

+# EET1025C, AC & DC Circuits II	4
+# EET2142C, Electronic Circuits.....	4
+# CET2123C, Microprocessor Fundamentals.	4
+# EET2280C, Data Acquisition and Control Systems.....	4
+* MAC2311, Calculus with Analytic Geometry	3
+# EET2355C, Digital Communications	4
Approved Technical Elective	2
.....	25

TOTAL DEGREE HOURS..... 68

SEMESTER 1 (Fall - August)

ENC1101, English Composition I	3
MAC1105, College Algebra	3
EET1015C, AC & DC Circuits I	4
CET1112C, Digital & Computer Circuits	4
.....	14

SEMESTER 2 (Spring - January)

EET2141C, Electronic Devices	4
EST2542C, Programmable Logic Controllers.....	4
CTS1134, Ntwk. Essentials (Network+)	3
MAC1114, Plane Trigonometry.....	3
.....	14

SUMMER

Social Science Elective	3
ENC1102, English Composition II.....	3
.....	6

SEMESTER 3 (Fall - August)

MAC2311, Calculus with Analytic Geometry.....	3
COP224, Introduction to C++ Programming.....	3
EET1025C, AC & DC Circuits II.....	4
CET2123C, Microprocessor Fundamentals.....	4
.....	14

SEMESTER 4 (Spring – January)

EET 2142C, Electronic Circuits	4
EET2280, Data Acquisition & Control Systems	4
EET2355C, Digital Communications.....	4
Approved Technical Elective.....	2
.....	14

SUMMER

Humanities Elective.....	3
Social Science Elective	3
.....	6

+ Prerequisites required. See course descriptions in catalog.

* 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 Community 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 the Office of Admissions and Records.
- 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 GCCC 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 GCCC 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.
- G. 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 required. See course descriptions in catalog.

* Minimum grade of "C" required.

EMERGENCY MEDICAL TECHNICIAN APPLIED TECHNICAL DIPLOMA (EMT-ATD)

The EMT program is a selective admission, limited enrollment program. Admission to Gulf Coast Community 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, Basic Trauma Life Support	1
Total EMT Certificate Hours.....	11

PARAMEDIC CERTIFICATE (PARAM-CT)

The Paramedic program is a selective admission, limited enrollment program. Admission to Gulf Coast Community 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)

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

MAJOR COURSES

+*# EMS1119, Emergency Medical Tech.....	5
+*# EMS1335, Emergency Vehicle Operator.....	1
+*# EMS1401, Emergency Medical Tech Lab	4
+*# EMS1555, Basic Trauma 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
+*# 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 required. See course descriptions in catalog.

* Minimum grade of "C" required.

**FIRE SCIENCE TECHNOLOGY
(FIRE-AS)**

AREA OF CONCENTRATION: The purpose of this program is to prepare graduates for advancement in the fire service. Completion of the company officer courses leads to Fire Officer Certification; completion of the inspection courses leads to Fire Inspector Certification.

³ #	FFP2670, Ethical & Legal Issues of the Fire Service	3
³ #	FFP2706, Public Information Officer	3
³ #	FFP2793, Fire & Life Safety Educator I.....	3
	FFP1140, 1 st Responder	3

¹ = Fire Officer I
² = Fire Inspector
³ = Fire Officer II

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English II or	
³ + ENC2210, Technical Writing.....	3
+* MAC1105, College Algebra	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	3
³ # FFP1610, Fire Cause and Arson Detection	3
¹ # FFP2810, Firefighting Strat. and Tactics I.....	3
³ # FFP2700, Fire Department Administration	3
¹ # FFP2740, Fire Science Instr. Techniques	3
^{1,2} + FFP1505, Fire Prevention Practices.....	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 # FFP2401, Hazardous Materials I.....	3
¹ # FFP2402, Hazardous Materials II.....	3
# FFP2212, Confined Space Rescue	3
# FFP2214, Confined Space Rescue, Tech.....	3
¹ + FFP2720, Company Officer	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
³ # FFP1741, Fire Service Course Design	3

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

FIREFIGHTING (FIRE-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. Personal Inquiry Waiver.
4. Training Affidavit.
5. Fingerprint Card.
6. High school diploma or GED (transcript required).
7. Driver’s license or Birth Certificate.

In addition to GCCC tuition and books, the following fees are required to be registered with the Florida State Fire College:

1. GCCC Fingerprint Fee, \$80
2. Fire College Application Fee, \$30

Academy classes have specific attendance policies that may differ from the general GCCC attendance policy. For specifics, contact the program manager or the academy recruit manual.

COURSES	Cr. Hrs.
= FFP0010, Firefighter 1.....	7.5
= FFP0020, Firefighter 2.....	7.5
# FFP1140, First Responder to Medical Emergencies	3 crs.
OR	
= CJK0031C, CMS First Aid for Criminal Justice Officers	1.3
OR	
EMS1119, Emergency Medical Tech	5 crs.
OR	
EMS2231, Paramedic I	5 crs.
TOTAL CERTIFICATE HOURS	3crs./15v

FLORIDA CHILD CARE PROFESSIONAL CREDENTIAL (FCCPC-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 80 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 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

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

**HOSPITALITY MANAGEMENT
(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	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

TOTAL DEGREE HOURS..... 64

**INTERNET SERVICES TECHNOLOGY
(INT-AAS)**

The Internet Services Technology program provides a basic foundation in the field of web site design and programming for employment in commercial, industrial,, and government institutions. Web Services personnel work in a variety of positions including designing and daily maintenance of web sites and configuring, administering, and managing web sites. Graduates are prepared for entry-level positions as Web Technicians, Administrators, Web Site Developers, and Web Masters. Students will be able to develop applications in a variety of environments using the leading Web development languages, applications, and standards.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* ENC1102, English Composition II.....	3
+ BSC1005, General Biological Science.....	3
PSY2012 or SYG 2000, Psychology/Sociology	3
Humanities	3

MAJOR COURSES	
GEB1011, Introduction to Business	3
+# QMB1001, College Business Math	3
CGS1570, Microcomputer Applications.....	3
+ CGS1544, Access Database Management	3
# GEB1136, Foundations in e-Business	3
# GEB2138, e-Business Law & Ethics	3
COP2250, JAVA Programming	3
+# COP2840, Internet Programming	3
ART2600, Computer Imaging I.....	3
# CGS2820, HTML Web Page Design	3
+# CGS2821, Advanced Web Page Design.....	3
+# CGS1871, Intro to Multimedia for Web.....	3
+# CGS2874, Advanced Multimedia for Web	3

ELECTIVES (Choose three of the following)	
+# CGS2825, Web Site Management	3
+# CNT1401, Intro to Network Security	3
+# CGS1103, Project Management	3
+# COP2823, ASP/Script Language Program	3
+# CET2485, Networking Essentials Plus	3
+# GEB2139, e-Business Management.....	3

TOTAL DEGREE HOURS 63

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

**LEGAL ASSISTING/PARALEGAL
(LEGL-AAS)**

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	3
PSY2012 or SYG2000, Psychology/Sociology	3
Humanities	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 OR MAT1033, Intermediate Algebra	3
 ELECTIVE	1
 TOTAL DEGREE HOURS	64

NOTE: Courses beginning with prefix PLA are offered at NIGHT ONLY and are taught at GCCC's main campus.

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

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.

**MAGNETIC RESONANCE IMAGING
(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 Community 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 Community College.
2. Submit program application form, including technical standards form.
3. Submit official high school transcript or copy of GED scores to the Office of Admissions and Records.
4. Submit official college transcripts and have evaluation completed by the Office of Admissions and Records.
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 TB skin test.
- E. Copies of licensure / certification cards.

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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

NETWORKING SERVICES TECHNOLOGY (NET-AAS)

AREA OF CONCENTRATION: The Networking Services Technology program is for individuals interested in beginning or advancing a career in computer/network support. Computer and network support involves installing, configuring, repairing, and managing computer and network hardware and software. It requires both hands-on skills and knowledge of theory and concepts.

Network technology is constantly changing and evolving, therefore learning in this field never ends. A strong emphasis is placed on working collaboratively in a team environment, effective communication and cultivating good customer service skills.

As part of this program, students will have the opportunity to achieve recognized IT industry certifications such as MCSE, MCSA, CCNA, A+, Security+ Project + and Network+.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
+* MAC1105, College Algebra	3
+ EUH1000, Western Civilization I or	3
+ EUH1001, Western Civilization II	3
+ PSY2012 or SYG2000, Psychology/Sociology	3
Humanities	3

Total General Education Classes..... 15

MAJOR COURSES

CGS1103, Project Management (Project +)	3
+# CTS1156, Customer Support Fundamentals (ITIL).....	3
CGS1570, Microcomputer Applications	3
# CET2143, Microcomputer Systems (A+ Hardware).....	3
# CTS1133, Desktop Operating Systems A+ Software (MS 70-620)	3
# CTS1134, Networking Essentials (Network +)	3
+# CTS1120, Computer & Network Security (Security+)	3
+# CTS1651, Router Technology (CISCO-CCNA).....	3
+# CTS1328, Managing and Maintaining a Microsoft Windows Server (70-290)	3
COP1332, Visual Basic Programming	3
CNT2949, Network Services COOP Education.....	3

Total General Core Classes..... 33

ELECTIVES - select 15 credits

Microsoft Servers/Administration (MCSE/MCSA)

+# CTS1325, Server Network Infrastructure (MS 70-291)	3
+# CTS2304, Networking Services Planning and Maintenance (MS 70-293).....	3

+# CTS2302, Server Active Directory Infrastructure (MS 70-294)	3
+# CTS2326, Implementing & Administering Security..... (MS 70-299)	3

Routers/Switches (CISCO - CCNA)

+# CTS2652, Advanced Router Technology (CISCO - CCNA)	3
+# CTS2653, Project-Based Learning (CISCO - CCNA).....	3

Information Security

+# CTS2315, Firewalls and Network Security	3
+# CTS2314, Network Defense and Countermeasures	3
+# CTS2310, Designing Security for a Microsoft Server Network (MS 70-298)	3

Industrial Networking

+# EST2542C, Programmable Logic Controllers	4
+# CET1112C, Digital & Computer Electronics Circuits	4
+# EST2650C, Industrial Networking	4

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 GCCC on a part-time basis.

Semester I

CET2143, Microcomputer Systems (A+ Hardware).....	3
CTS1156, Customer Support Fundamentals (ITIL)	3
CGS1570, Microcomputer Applications.....	3
CTS1134, Network Essentials (Network +)	3
MAC1105, College Algebra	3

Semester II

CTS1133, Desktop Operating Systems A+ Software (MS 70-620).....	3
CTS1328, Managing and Maintaining a Microsoft Windows Server (70-290).....	3
CTS1651, Router Technology (CISCO-CCNA)	3
COP1332, Visual Basic Programming.....	3
General Education Course	3

Semester III

CTS1120, Computer & Network Security	3
Network Service Technology Elective.....	3
Network Service Technology Elective.....	3
Network Service Technology Elective.....	3
General Education Course	3

Semester IV

CGS1103, IT Project Management (Project +)	3
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+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

CNT2949, Network Services COOP Education..... 3
 Network Service Technology Elective 3
 Network Service Technology Elective 3
 General Education Course 3
Summer Session
 General Education Course 3

**NURSING, ASSOCIATE DEGREE
 (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 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 Community 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. Successfully complete the nursing school entrance exam. (Registration process, study information, and minimum scores are contained in the nursing application packet).
7. Schedule appointment with assigned nursing faculty Adviser.

The Nursing program is a selective admission, limited enrollment program. Admission to Gulf Coast Community 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 required. See course descriptions in catalog.
 * 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 GCCC. 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

LPN/ADN ARTICULATION

PRIMARY ADVISER: Martha Ruder (ext. 5817), 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 Community 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 PN. articulation to Associate Degree nursing packet.

Minimum Requirements for Admission to LPN-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 articulation packet.

Requirements for completion of additional cognate courses will be determined based on placement of applicant within the nursing sequence.

Excelsior College Mobility Exam official results 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)

GCCC Credit: NUR 1022C

Minimum Required for Credit: Grade of “C”

Maximum Semester Hrs. Credit: 3

Adult Nursing (554)

GCCC Credit: NUR 1210C, NUR 1212C

Minimum Required for Credit: Grade of “C”

Maximum Semester Hrs. Credit: 9

Foundations of Gerontology (407)

GCCC Credit: NUR 1281C

Minimum Required for Credit: Grade of “C”

Maximum Semester Hrs. Credit: 5

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

- A. Official transcripts must be sent to the Office of Admissions and Records. 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 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 anytime 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.

NUR2293 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.
#*NUR2293, Periop Nursing Theory	3
#*NUR 2949, Clinical Periop Nursing Co-op	3

**REGISTERED NURSING FIRST ASSISTANT
Advanced Technical Certificate**

Goal:

The purpose of this program is to prepare the registered perioperative nurse in the specialized expanded area of practice as a first assistant in surgery.

1. Apply for admission to Gulf Coast Community College.
2. Submit the RNFA program application with all forms as outlined in the application packet.
3. Submit official transcripts from all previous colleges to the Office of Admissions and Records for evaluation.
4. Have two letters of reference mailed to the program director.

To enter the program the student must:

1. Meet and complete all general admission requirements for GCCC.
2. Provide proof of active licensure in good standing to practice as a Registered Nurse in the state in which the clinical internship will be undertaken.
3. Verification of certification as follows:
 - a. CNOR or CNOR eligible or Board certified or board eligible as an advanced practice nurse (APN). If no experience or competency in intraoperative patient care, student must undergo an assessment regarding clinical skills and knowledge. If deficient, faculty shall develop a plan to remediate identified deficiencies using courses NUR2293 and NUR2949.
 - b. Proof of current CPR (BCLS); ACLS is preferred.
 - c. Two letters of recommendation attesting to the years of experience as an RN and knowledge, judgment, and skills specific to surgical patient care.
 - d. Call Primary Adviser for further information on the course.

Students must earn a grade of “C” or higher in each course. See the RNFA syllabus for further information regarding

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

graduation, retention, dismissal, readmission, and transfer credit policies

COURSES	Cr. Hrs.
#*NUR2293, Periop Nursing Theory	3
#*NUR2790, RNFA Theory	3
#*NUR2790L, RNFA Lab/Clinical	3
TOTAL CERTIFICATE HOURS	9

**OFFICE ADMINISTRATION
(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
+ Humanities	3
+ BSC1005, General Biological Science.....	3
PSY2012 or SYG 2000, Psychology/Sociology	3

MAJOR COURSES

+ OST1102, Keybrdg. & Doc. Processing II.....	3
(offered spring semester only)	
+# QMB1001, College Business Math	3
CGS1570, Microcomputer Applications.....	3
+# CTS1205, Excel	3
+# OST2335, Business Communications.....	3
+# OST1061, Intro. to Office Management	3
(offered fall semester only)	
ACG2001, Financial Accounting I.....	3
+# OST1355, Records Management	3
(offered fall semester only)	
+ OST1856, Word Process. w/MS Word	3
(offered fall semester only)	
+# OST2811, Desktop Publishing/MS Pub	3
(offered spring semester only)	

Choose one of the following options:

Office Management Option

OST1101, Keybrdg. & Doc. Processing I.....	3
+# OST2601, Machine Transcription	3
(offered fall semester only)	
# MNA1100, Human Relations	3
MAN2021, Principles of Management or	
GEB1011, Intro to Business	3
Elective Hours	6

Medical Office Administration Option

# OST1257, Medical Terminology.....	2
+# OST1611, Medical Machine Transcription.....	3
+# OST1461, Computer Medical Office Mgt.....	3
# MNA1100, Human Relations	3
MAN2021, Principles of Management or	
GEB1011, Intro to Business	3
Elective Hours	4

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

Office Software Applications Option

#	CET1580, FrontPage.....	3
#	CET2485, Networking Essentials Plus	3
	COP2250, Java Programming.....	3
+	CGS1544, Database Mgt Using Access.....	3
	ACG2450, Basic Computer Augmented Acct.....	3
	Elective Hours	3
TOTAL DEGREE HOURS.....		63

**OFFICE MANAGEMENT TECHNICAL
CERTIFICATE (CLERK-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
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+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

PHYSICAL THERAPIST ASSISTANT (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 Community 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 Community 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 Community 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 the Office of Admissions and Records and evaluated by that office. A minimum GPA of "C" or 2.0 is required. Preference is given to those students with a science background and a GPA of 2.8 or better.
- D. A completed health sciences application must be submitted, including technical standards and prerequisites. The satisfaction of minimum requirements does not automatically guarantee admission. Admission is competitive among eligible applicants. Final selections will be made by the Admissions Committee based on an objective point system computed from the admissions criteria.
- E. 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

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**MASSAGE THERAPY
(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
TOTAL CERTIFICATE HOURS	10

**MUSIC PRODUCTION TECHNOLOGY
(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.

GENERAL EDUCATION COURSES	Cr. Hrs.
+* ENC1101, English I	3
PSY2012, Psychology	3
+ MUL2110, Survey of Music Literature	3
EUH1000 or EUH1001, Western Civilization.....	3
Humanities	3
+* Approved mathematics (MAC, MGF, STA).....	3

MAJOR COURSES

+* MUM1620, Audio & Acoustics Fund.....	3
+ MUM2600, Sound Recording I	3
+* MUM2600L, Sound Recording I Lab	2
+ 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 & Sightsinging I	2
+ MUT1242, Ear-Training & Sightsinging II	2
MVK1111, Class Piano I	2
MVK1112, Class Piano II	2
+ MV_----, Applied Music (2 semesters).....	4
MUN----, Performance Ensemble	1

ELECTIVES

+ MUT2116, Music Theory III	3
+ MUT2117, Music Theory IV	3
+ MUT2246, Ear-Training & Sightsinging III	2
+ MUT2247, Ear-Training & Sightsinging IV.....	2
# 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
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+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**PRACTICAL NURSE CERTIFICATE
(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 Community College does not imply acceptance into the Practical Nursing program.

APPLICATION PROCESS:

- Apply to Gulf Coast Community 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

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
=+* PRN0000C, 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
=+* PRN0020, 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.

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

**PRIVATE SECURITY OFFICER
(PSO-VC)**

AREA OF CONCENTRATION: This program is designed to meet the course work requirements of the Department of Agriculture for class D license “Unarmed Security Guard” and class G license “Armed Security Guard.”

COURSES	Cr. Hrs.
SCY0501, Unarmed Security Guard.....	1.5v
SCY0503C, Armed Security Guard.....	1.0v
TOTAL CERTIFICATE CREDITS	2.5v

RADIOGRAPHY (RADT-AAS)

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 Community College.
2. Submit program application form, including Duties and Responsibilities form.
3. Demonstrate college level competency in Reading, English, and Algebra with active scores in those areas on the Computerized Placement Test (CPT) OR complete college level English and Math courses with a grade of “C” or better.
4. Submit official high school transcript or copy of GED scores to the Office of Admissions and Records.
5. Submit official college transcript and have evaluation completed by the Office of Admissions and Records.
6. Schedule a visit to the Radiography Department for an advisement session with a member of the program faculty.

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. Four areas are considered:

1. Number of general education courses successfully completed.

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

2. Grade Point Average in general education courses.
3. Computerized placement test scores.
4. Letters of recommendation.

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.
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 TB skin test.

GENERAL EDUCATION COURSES Cr. Hrs.

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

+*	ENC1101, English I	3
+*	MAC1105, College Algebra	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	3

MAJOR COURSES

+*#	RTE1000C, Intro. to Diagnostic Imaging.....	3
+*#	RTE1613, Diagnostic Imaging Physics	3
+*#	RTE1503C, Radiographic Procedures/ Positioning I	3
+*#	RTE1804, Clinical Education I.....	2
+*#	RTE1418C, Prin. of Radiographic Exposure I.....	3
+*#	RTE1513C, Radiographic Procedures/ Positioning II	3
+*#	RTE1814, Clinical Education II.....	3
+*#	RTE1457, Prin. of Radiographic Exposure II.....	3
+*#	RTE1523C, Radiographic Procedures/ Positioning III	2
+*#	RTE1824, Clinical Education III.....	4
+*#	RTE2385, Radiobiology	3
+*#	RTE2762, Sectional Anatomy & Pathology.....	3
+*#	RTE2834, Clinical Education IV.....	4
+*#	RTE2473, Radiographic Quality Assurance	2
+*#	RTE2563, Advanced Medical Imaging	3
+*#	RTE2844, Clinical Education V.....	4
+*#	RTE2854, Clinical Education VI.....	2
+*#	RTE2061, Radiography Seminar.....	2
	OST1257, Medical Terminology	2
	CGS1570, Microcomputer Applications.....	3

TOTAL DEGREE HOURS..... 77

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

RESPIRATORY THERAPY (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 Committee on Accreditation for Respiratory Care (COARC).

The Respiratory Therapy program is a selective admission, limited enrollment program. Admission to Gulf Coast Community 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 GCCC and request official transcripts from previous high school, GED, colleges, and universities attended.
2. Take the Computerized Placement Test (CPT) 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: The program begins once each year. Selection is made within three weeks of completion of respiratory care application. Students are admitted on a space available basis.

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.

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	
higher 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
*# RET2616, 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

SONOGRAPHY, DIAGNOSTIC MEDICAL (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 Community College.
2. Submit high school transcripts and college transcripts to the Office of Admissions and Records 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. For the A.A.S. degree, submit active Computerized Placement Test (CPT) with minimum scores for placement into college level reading and English, satisfactory arithmetic and algebra scores OR complete

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

college level English and math courses with a grade of "C" or better. Acceptable CPT scores are noted in the application package.

5. For the advanced technical certificate, submit associate degree documentation or successfully 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.
6. 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 skin test.

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
OST1257, Medical Terminology	2
HOURS	21

DIAGNOSTIC MEDICAL SONOGRAPHY (DMS-CCC)

COURSES	Cr. Hrs.
+# SON1000C, Introduction to Sonography.....	2
+# SON1052C, Sono Anatomy & Pathology	3
+# SON1100C, Prin/Prot of Sono Imaging.....	4
+# SON1111, Abdominal Sonography I.....	3
+# SON1112, Abdominal Sonography II.....	3
+# SON1121, OB/GYN Sonography I.....	3
+# SON1122, OB/GYN Sonography II.....	3
+# SON1144, Superficial Structures	1
+# SON1170, Sonography Circulatory System	3
+# SON1211, Medical Sonography Physics	3
+# SON1804, Clinical Education I	3
+# SON1814, Clinical Education II.....	3
+# SON1824, Clinical Education III.....	4
SON2113, Sono Cross Sectional Anatomy.....	2
+# SON2171C, Intro to Vascular Sonography	4
SON 2175, Vascular Sonography.....	3
SON 2834, Clinical Ed IV.....	4
TOTAL CERTIFICATE HOURS	51
TOTAL DEGREE HOURS	72

SURGICAL TECHNOLOGY VOCATIONAL CERTIFICATE (SURG-VC)

AREA OF CONCENTRATION: The purpose of this 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.
<i>All courses must be completed with a "C" or better.</i>	
BSC1020, Human Biology or EMS 2010, Essentials of Human Structure and Function	3
AND	
# OST1257, Medical Terminology.....	2
OR	
STS1300, Surgical Anatomy and Physiology	5

INTRODUCTORY COURSES

=* HSC0005, Orientation to Health Sciences	1.5 v
=+* HSC0005L, Orientation to Health Sciences Lab	0.5v

MAJOR COURSES

+*= STS0003, Intro to Surgical Technology	3 v
+*= STS 0003L, Intro to Surgical Tech. Lab	2 v
*= STS 0803, Pharmacology & Anesthesia	1.5 v
*= STS 0803L, P'col & Anesthesia Lab	0.5 v
*= STS 0804, Basic Microbiology	2 v
+*= STS 0120, Surgical Specialties I.....	1 v
+*= STS 0120L, Surgical Specialties I Lab.....	0.5 v
+*= STS 0121, Surgical Specialties II.....	1 v
+*= STS 0121L, Surgical Specialties II Lab.....	0.5 v
+*= STS 0122, Surgical Specialties III	1 v
+*= STS 0122L, Surgical Specialties III Lab.....	0.5 v
+*= STS 0155, Surgical Tech & Procedures.....	3.5 v
+*= STS 0155L, Surg Tech & Procedures Lab.....	4.5 v
+*= STS 0255L, Surgical Procedures Clinical I.....	6 v
+*= STS 0256L, Surgical Procedures Clinical II.....	6 v
+*= STS 0257L, Surg Proc Clinical III	6.5 v

TOTAL VOCATIONAL HOURS 5crs/42v

+ Prerequisites required. See course descriptions in catalog.
* Minimum grade of "C" required.

APPLICATION PROCESS:

- A. Apply for admission to Gulf Coast Community College.
- B. Submit the Surgical Technology program application forms to the Division of Health Sciences.
- C. Take TABE or CPT examination as required in the Surgical Technology application package.
- D. Submit official transcripts as required by the Office of Admissions and Records for evaluation.
- E. Have two letters of reference mailed to the program director.
- F. Complete transcript analysis with course instructor (previous training in anatomy/physiology and medical terminology may be substituted for BSC 1005, EMS 2010, and OST 1257).
- G. See application packet for further information.

Minimum Requirements for Admission: Listed below are the specific requirements for admission to this program. It should be understood, however, that the Surgical Technology program is a selective admission, limited enrollment program. Admission to Gulf Coast Community College and the satisfaction of minimum requirements does not automatically guarantee admission into the Surgical Technology program. When space is limited, preference may be given to students within the community college's assigned district.

1. Complete the application process as outlined in the selection package.
2. Conference with surgical technology adviser.
3. Submit proof of age – 18 years or older on or before the first clinical class start date of the class year.
4. Prerequisites: Satisfactory completion with a grade of "C" or higher in BSC 1020, Human Biology and OST 1257, Medical Terminology or STS1300, Surgical Anatomy and Physiology. (NOTE: BSC 2085 and BSC 2086, Anatomy and Physiology I and II or EMS 2010, Essentials of Human Structure and Function, may be substituted for the Human Biology requirements). Preference will be given to students who have completed the recommended prerequisites or are currently enrolled with a satisfactory grade.

Requirements upon conditional acceptance:

1. Satisfactory fingerprint / criminal background check.
2. Copy of current Certification in CPR by the American Heart Association or Red Cross Health Care Provider.
3. Completion of physical examination (with satisfactory results), including copy of immunization form.
4. Drug screen or other requirements as required by clinical sites.
5. Complete Introductory Classes HSC 0005 and HSC 0005L.

The Accelerated Alternate Delivery Bridge Program in Surgical Technology was developed to assist non-certified, currently practicing surgical technologists obtain the educational background they need to be eligible to sit for the Liaison Council on Certification for the Surgical Technologist (LCC-ST) National Certification Examination.

Surgical technologists interested in this program must fit into one of three 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.
3. Formally trained surgical technologists who completed a military program.

The Accelerated Alternate Delivery Bridge Program in Surgical Technology is a 5 college credit/42 vocational credit program. Up to 27 ½ of those vocational credits in lab skills and clinical experience may be granted by documented work experience in the field with a written validation of competency/examination. There is no charge for those courses. The remaining thirteen (13) vocational credits and the 5 college credits representing 10 courses must be successfully completed. Students must complete at least 12 hours at GCCC as required by the State of Florida.

Of those courses, 3 courses can be challenged by examination: HSC 0005, Orientation to Health Sciences; STS 0003, Introduction to Surgical Technology; and STS 0155, Surgical Techniques and Procedures. To challenge, one must 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 minimal 70% score or "C" to successfully challenge the course. In the event of a score less than 70%, all of the course assignments, examinations, and final examination (not the same examination) must be successfully completed as outlined in the course syllabus.

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.

+ Prerequisites required. See course descriptions in catalog.

* Minimum grade of "C" required.

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 the EPI 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
#+ 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 required. See course descriptions in catalog.
* Minimum grade of "C" required.

ADULT BASIC EDUCATION AND GED PREPARATION PROGRAM

The Passport Program - Designed to prepare students for achievement of the GED and/or to improve basic academic skills for job entry and retention. Open to individuals 18 years of age and older who do not possess a standard high school diploma or GED or who are functioning below the ninth grade level. Orientations are held weekly. Day, evening, and weekend hours, as well as an online course of study, are available. All services are free of charge. Call 850-872-3849 for more information.

The ESOL Program – Designed to provide English language learning opportunities for adults with limited English proficiency. Classes utilize various instructional approaches and are taught at six levels. Call 850-769-1771, ext 3396 for more information.

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 Community College maintains providership status, the following members of the health profession frequently enroll in courses: acupuncturists, dietitians, 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 required. See course descriptions in catalog.

* 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**#EST1800C, Solar Energy**

6 hrs., 3 crs.

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.

+#EST1821, Biofuels and Biomass

3 hrs., 3 crs.

Prerequisite: EST1831.

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.

#EST1831, 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.

#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.

**#EST1831L, 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.

**#EST1835, Introduction to Energy, Environment, and Society
3 hrs., 3 crs.**

This course provides students with the basic principles and history of traditional and alternative energy sources; current industry and government status of geothermal, wind, solar, biomass, fuel cells and other traditional energy sources. The course will discuss evolving alternative energy policies, technologies, and career areas.

**+#EST1840, Geothermal Energy
3 hrs., 3 crs.**

Prerequisite: EST1831.

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.

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 REA0002 or REA1930 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 REA0002 or REA1930 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 REA0002 or REA1930 with a minimum grade of "C." (Meets Area I Humanities Requirement.)
From Renaissance to Twentieth Century.

**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 ART 1100C. 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.

#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.

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.

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.)

+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.

#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.

#BAN1156, Letters of Credit
2 hrs., 2 crs.

This course provides a hands-on approach to learning about the development, use, and operation of letters of credit and related international trade documents. It includes a detailed examination of most documents used in international trade activities today.

#BAN1210, Analyzing Financial Statements
3 hrs., 3 crs.

A study of characteristics of financial statements and financial statement analysis.

#BAN1240, Consumer Lending
3 hrs., 3 crs.

Topics to be covered include consumer credit, credit risks, application, analyzing financial data, collection, compliance, and marketing consumer loans.

#BAN1251, Real Estate Finance
3 hrs., 3 crs.

This course provides instruction to construction lending and other areas of commercial real estate finance with particular emphasis on managing credit risk. Real estate law, appraisal and investment analyses are also covered. Covers principles of finance related to Condominiums; Multifamily Rental Property; Retail Property; Office, Warehouse, and Lodging Property.

#BAN1500, Economics for Bankers
3 hrs., 3 crs.

An introduction to the fundamental principles of economics, basic economic theory, and examples of the application of economics to banking. Emphasis is placed on topics of importance to bankers.

#BAN1531, Introduction to Supervision
3 hrs., 3 crs.

Provides skills for new or potential supervisors to become better managers by emphasizing broad perspectives and by combining fresh insights with the interpersonal relations required of today's successful managers.

+#BAN2231, Commercial Lending
3 hrs., 3 crs.

Prerequisite: BAN1004.

Provides knowledge and skills to be an effective commercial lender, including the technical side of lending and the human relations skills all successful leaders need.

#BAN2253, Introduction to Mortgage Lending
2 hrs., 2 crs.

This course covers construction and permanent financing for residential property, real estate law, documentation, mortgage load servicing, the secondary mortgage market, the role of government in mortgage leading, and residential real estate as an investment.

#BAN2254, Mortgage Loan Documentation
2 hrs., 2 crs.

This course is designed for use in residential mortgage loan processing training, and is tailored specifically to the basic training needs of loan processing offices that are subsidiaries of commercial banks. Compliance with regulatory requirements is emphasized throughout.

#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.

#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.

#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**+BSC1005, General Biological Science****3 hrs., 3 crs.**

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0002 or REA1930 with a minimum grade of "C." Satisfactory completion of ENC0002 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.

+BSC1020, Human Biology**3 hrs., 3 crs.**

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0002 or REA1930 with a minimum grade of "C." Satisfactory completion of ENC0002 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 REA0002 or REA1930 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 REA0002 or REA1930 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 REA0002 or REA1930 with a minimum grade of "C." Corequisite: BSC2010.

A laboratory course to be taken concurrently with BSC 2010. 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 REA0002 or REA1930 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

#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.

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 REA0002 or REA1930 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 REA0002 or REA1930 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 1005 or high school biology during the last 5 years is strongly recommended.

+BSC2085L, Human Anatomy and Physiology I Laboratory
2 hrs., 1 cr.

\$43.00 lab fee

Prerequisite: Satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0002 or REA1930 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 and BSC2085L with a "C" or better.

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: Satisfactory completion of BSC2085L or one semester of a college-level biology laboratory course and satisfactory reading scores on the Florida College-Level Entry Placement Test or completion of REA0002 or REA1930 with a minimum grade of

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 REA0002 or REA1930 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.)

#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.

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 REA0002 or REA1930 with a minimum grade of "C," and 3 hrs. biology or 3 hrs. chemistry. Corequisite: MCB2004L. College-level placement in Eng
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 REA0002 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.

BUILDING CONSTRUCTION**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.

+#BCN2742, Contractor's License Preparation**3 hrs., 3 crs.**

Prerequisite: Permission of instructor.
A study designed to prepare students for the Building Contractors' Examination, state and federal laws, safety codes, building codes, construction methods and technology, and practical field knowledge leading to A, B, and C licenses. Course can be used for general knowledge of construction field.

#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.

#BCT2610, Codes for Electrical Exam**3 hrs., 3 crs.**

A course covering the latest revisions of the national code and local codes intended to aid the experienced worker in preparing for journeyman and master examination.

#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 1st 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.

#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.

**+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.

**=BCA0352, Electrical Apprenticeship 3
90 contact hrs., 3 vocational crs.**

This is the 1st 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 1st 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 2nd 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 1st 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 2nd 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.

#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.

**+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 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.

#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.

**+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.)

**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.

**HFT1700, 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 MAT 0024.

A study of the practical application of mathematics to business transactions and calculations, such as percentage, interest, discounts, markups, and commissions, pricing,

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

payrolls, depreciation, and inventory turnover and costing. Emphasis is given to short methods of calculation and verification.

+QMB2100, Business and Economic Statistics
3 hrs., 3 crs.

Prerequisite: Minimum grade of "C" in MAT 1033 or a higher level mathematics course.

Topics include statistics in business decision-making; statistical data; averages, dispersion and skewness; probability; probability distributions; survey sampling; tests of significance parametric methods and nonparametric methods; simple linear regression and correlation.

CENTRAL SERVICE TECHNOLOGY

+HSC0431, Central Service Technology
90 hrs., 3 vc.

Corequisite: HSC 0431L.

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 vc.
\$45.00 lab fee

Corequisite: HSC0431.

Lab and clinical skills to accompany HSC0431, Central Service Technology.

+HSC0811L, Central Service Technology Clinical
155 hrs., 5 vc.

Prerequisite: HSC0005, HSC0005L. 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.

=HSC0943, Central Service Specialty Topics
15 hrs., 0.5 vc.

This course is designed to prepare students to sit for the national certification examination as a central service technician.

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.
\$43.00 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.

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+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: CHM1046.

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.****\$25.00 lab fee**

Prerequisite or Corequisite: EET1015C.

Integrated lecture and laboratory experiences and study of digital integrated circuits, number systems, Boolean algebra simplification with and introduction to computer architecture. National Instruments MultiSim will be used to design circuits and protoboards with test equipment and will be used to build and test circuits. The Parallax STAMP controller will be used to develop PBASIC applications in the programming of embedded systems up through a small robot application.

#CET1600C, Network Fundamentals**4 hrs., 3 crs.****\$50.00 lab fee**

This course is designed to prepare students to apply and understand the basics of networking hardware. The course covers the OSI model and industry standards, network topologies, IP addressing, and basic network design.

#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.

+#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.

#CET2143, Microcomputer Systems (A+ Hardware)**3 hrs., 3 crs.****\$10.00 lab fee**

A hardware course providing hands-on experience in specifying, assembling, testing, and using a microcomputer to send, receive, and control data. Includes architecture, input-output interfacing, DMA, interrupts, memory management, assembly language and basic programming, and local area networking.

#CET2171, Computer Hardware Essentials**3 hrs., 3 crs.****\$8.00 lab fee**

This course provides the student with the basic knowledge and skills necessary for further study of computers and networking.

#CET2526, LINUX**3 hrs., 3 crs.****\$8.00 lab fee**

A course for LAN or Web system administrators who need to learn supervisory tasks for the LINUX/UNIX operating system. Red Hat LINUX is used for training.

+#CET2587, Web Database Applications**3 hrs., 3 crs.****\$8.00 lab fee**

Prerequisite: CGS1570.

This course covers the installation, use, and management of client server databases such as Microsoft Access, and Microsoft SQL relational databases.

#CET2811, Windows XP Professional**4 hrs., 4 crs.****\$8.00 lab fee**

This course provides students with the opportunity to develop the knowledge and skills that are required to install, configure, and administer the Windows ® XP Professional operating system. This course also helps students to prepare for the MCP Exam 70-270.

#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.**

Prerequisite: CTS1134 or permission of instructor.

This course introduces students to the terminology and concepts associated with network security. Topics addressed include Operating Systems Security – 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.

#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.

#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 is designed to teach the skills and knowledge measured by the compia network+ certification exam. The course provides networking information and skills in the areas of media and topologies, protocols and standards, network implementation, and network support.

+#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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

discuss details of real-life scenarios of working professionals and issues in the workplace.

+#CTS1325, Server Network Infrastructure

3 hrs., 3 crs.

Prerequisite: CTS1328.

This course is designed to provide students with classroom and laboratory experience in configuring, managing, and troubleshooting a Microsoft Windows Server 2003 network infrastructure and to prepare for the Microsoft Certified Professional examination 70-291: Managing and Maintaining a Microsoft Windows Server 2003 Environment as part of becoming a Microsoft Certified Professional (MCP) or a Microsoft Certified Systems Engineer (MCSE).

+#CTS1328, Managing/Maintaining MS Windows Server

3 hrs., 3 crs.

Prerequisite: 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 70-290, Implementing, Managing and Maintaining a Microsoft Windows Server 2003 Network Infrastructure.

+#CTS1651, Router Technology (CISCO-CCNA)

3 hrs., 3 crs.

\$50.00 lab fee

Prerequisite: CTS1134.

This course is designed to provide students with classroom and laboratory 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.

+#CTS2302, MS Server Active Directory Infrastructure (MS 70-294)

3 hrs., 3 crs.

Prerequisite: CTS1328.

This course is designed to provide students with classroom and laboratory experience in planning, installing, managing, and troubleshooting Windows Server Active Directory. In addition, this course provides students with

the information necessary to pass Microsoft certification exam 70-294: Managing and Maintaining a Microsoft Windows Server Environment as part of becoming a Microsoft Certified Professional (MCP) or a Microsoft Certified Systems Engineer (MCSE).

+#CTS2304, MS Networking Services Planning & Maintenance (MS 70-293)

3 hrs., 3 crs.

Prerequisite: CTS1328.

This course is designed to provide students with classroom and laboratory experience in installing, configuring, administering and supporting primary networking services in a Microsoft Windows Server network infrastructure. In addition, this course provides students with the information necessary to pass Microsoft certification exam 70-293: Managing and Maintaining a Microsoft Windows Server Environment as part of becoming a Microsoft Certified Professional (MCP) or a Microsoft Certified Systems Engineer (MCSE).

+#CTS2310, Designing Security for a Microsoft Server Network (MS 70-298)

3 hrs., 3 crs.

Prerequisites: CET1328 and CTS1120.

This course is designed to provide students with classroom and laboratory experience in installing, configuring, administering and support the security services and tools in a MS Windows environment. In addition, this course provides students with the information necessary to pass Microsoft certification exam 70-298: Managing and Maintaining a Microsoft Windows Server Environment as part of becoming a Microsoft Certified Professional (MCP) or a Microsoft Certified Systems Engineer (MCSE).

+#CTS2314, Network Defense and Countermeasures

3 hrs., 3 crs.

Prerequisites: CET1328 and CTS1120.

The primary emphasis is on intrusion detection, but the course also covers such essential practices as developing a security policy and then implementing that policy by performing Network Address Translation, setting up packet filtering, and installing proxy servers, firewalls, and virtual private networks. The text provides the student with a solid foundation in network security fundamentals, but assumes familiarity with the Internet and basic networking concepts. The course includes many hands-on activities along with realistic case studies.

#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.

+#CTS2315, Firewalls and Network Security
3 hrs., 3 crs.

Prerequisites: CET1328 and CTS1120.

This course is designed to provide students with classroom and laboratory experience. The students will learn installation techniques, discusses how to make an intelligent choice of firewall technology, and presents basic firewall troubleshooting. This course maps to the CheckPoint CCSA Certification.

+#CTS2326, Implementing & Administering Security (MS 70-299)
3 hrs., 3 crs.

Prerequisite: CET1328.

This course is designed to provide students with classroom and laboratory experience in implementing and administering security in a Windows Server environment. In addition, this course provides students with the information necessary to pass Microsoft certification exam 70-299: Managing and Maintaining a Microsoft Windows Server Environment as part of becoming a Microsoft Certified Professional (MCP) or a Microsoft Certified Systems Engineer (MCSE).

+#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.

+#CTS2652, Advanced Router Technology (CISCO-CCNA)
3 hrs., 3 crs.**\$50.00 lab fee**

Prerequisite: CET1651.

This course is designed to prepare a student to apply and understand the advanced principles and applications of networking hardware. The course covers advanced router configurations, Local-Area Networking (LAN) switching, network management, and advanced network design. This is the third of a four-part series to prepare students for the Cisco Certified Networking Associate examination.

+#CTS2653, Project Based Learning (CISCO-CCNA)
3 hrs., 3 crs.**\$50.00 lab fee**

Prerequisite: CET1651.

Designed to prepare a student to apply and understand the advanced principles, applications, and implementation of networking hardware. The course covers advanced network design projects and advanced network

management projects. This is the fourth of a four-part series to prepare students for the Cisco Certified Networking Associate examination.

+#EET1015C, AC & DC Circuits I
6 hrs., 4 crs.**\$10.00 lab fee**

Prerequisites: MTB1321 or 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.**\$10.00 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 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.**\$10.00 lab fee**

Prerequisite or Corequisite: EET1025C

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, PNPnPs, single stage amplifiers, and other devices.

#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.

+#EET2142C, Electronic Circuits**6 hrs., 4 crs.****\$10.00 lab fee**

Prerequisites: EET1025C, 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 Systems**6 hrs., 4 crs.****\$20.00 lab fee**

This course covers the hardware and software for data acquisition and control applications. Topics will include Sensors, Signal Conditioners, I/O Modules, Data loggers, Commutations protocols, Alarming, etc. Software for Graphics programming will use National Instruments Lab View, and Keithley Data Acquisitions 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.

#EST1603C, Fundamentals of Robotics**4 hrs., 3 crs.****\$10.00 lab fee**

This Introduction course in Robotics Technology is open to all students, using the Carnegie Mellon Robotics Academy Curriculum for the LEGO® MINDSTORMS® Carnegie Mellon University is the leading University in the country for Robotics. 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, teams of

students can design, build, program, and test robots. Students will develop programming skills using National Instruments software and programming in Visual Basic or C+ languages. Working together on guided and open-ended engineering projects, the team members develop creativity and problem-solving skills along with other important mathematics and science knowledge. Students also become more skilled in communication, organization and research, which helps prepare them for future success in higher levels of education and in the workplace.

#EST2511C, Motor and Motion Control**6 hrs., 4 crs.****\$10.00 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 SERCOS servo drives controlling X-Y Servo tables controlled by AB Control Logix and RSLOGIX 5000 software.

#EST2535C, Process Control and Instrumentation**6 hrs., 4 crs.****\$10.00 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, 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.****\$10.00 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.

#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.

#EST2606C, Robotics**6 hrs., 4 crs.****\$10.00 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.****\$10.00 lab fee**

This class covers network topologies, protocols, the Allen-Bradley, Device Net, Control Net, and Ethernet using RSLOGIX500, RSLOGIX5000, and RSVIEW32 Human Machine Interface. Communication with Microsoft Excel will be used for data acquisition. Manufacturing concepts such as batch processing, supervisory control, just-in-time inventory control, and computer hierarchies will be discussed with lab simulation.

#EST2700C, Electro-Hydraulics and Pneumatics**4 hrs., 3 crs.****\$10.00 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.

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.

+#CGS1103, Project Management**3 hrs., 3 crs.****\$12.00 lab fee**

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.

+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 learning the use of the operating system and the use of software packages, including word processing, electronic spreadsheet, Internet, presentation software, graphics, databases, and telecommunications.

+#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.

+#CGS1871, Introduction to Multimedia for the Web**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisite: CGS1570.

This is a survey course designed to introduce the concepts of multimedia. Students will be exposed to different areas of multimedia that include text, images, audio, video and animation. Students will have the opportunity to learn how to manipulate text, capture images, produce audio and video, and simple animations. They will learn to combine the components into presentations.

#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.

+#CGS2069, Internet Marketing**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisites: CGS1570, GEB1136.

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.

+#CGS2173, E-Business Systems and Web Design**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisite: CGS1570 or permission of instructor.

Use and application of information system technology in the business environment, with emphasis on the fundamental e-Business models, technology concepts and systems used to enable and conduct electronic business. Concepts include the components of an e-Business system, the systems development process, the functions of the various types of communications networks, hardware, and software, including practical, hands-on projects creating and designing web pages to enhance e-Business analytical skills.

+#CGS2820, HTML & XHTML Web Page Design**3 hrs., 3 crs.****\$12.00 lab fee**

Introduces techniques that will help ensure students know how to create web pages and sites that are flexible, scalable, and ready to take full advantage of the World Wide Web. Students will learn how to use FPT, HTML, XHTML, and Dreamweaver. The student will also understand how web browsers and servers are used to display their web pages. This course requires research and project development.

+#CGS2821, Advanced Web Page Design**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisites: CGS1570, CGS2820, CGS1544, COP2840.

This course builds upon web design skills learned in CGS 2820. Topics include creating and managing a web server, shopping cart technology, database integration, automation technologies, client/server scripting, and server scripting, and server platform benefits and limitations. Students will use Microsoft FrontPage and Macromedia Dreamweaver web development tools to create dynamic web sites. Hands-on class project will include implementing and publishing an e-Commerce based intranet website.

+#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.

+#CGS2874, Advanced Multimedia for the Web**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisites: CGS1570, CGS2820, CGS1871.

Continuation of CGS 1871. Topics include advanced uses of macromedia director including shockwave, animation and lingo. This course will cover the fundamentals of professional multimedia projects development. In-depth study and successful implementation of multimedia applications for cd-rom, kiosk, and web distribution. Emphasis on video and audio compressions, multi-platform implementations and applications authoring will also be covered. Hands-on projects will be required.

+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-commerce needs, intrusion detection and platform-specific implementations.

#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.

COP1332, Introduction to Visual Basic**3 hrs., 3 crs.****\$12.00 lab fee**

An introduction to the standards and conventions of programming in a graphical environment. Emphasis will be placed on gaining an understanding of proper design and use of the graphical user interface (GUI) development tools available in Visual Basic. Similarities to and differences from traditional programming languages will be explored.

+COP2120, COBOL Programming**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisite: COP1332 or permission of instructor. Instruction in the use of COBOL language and its applications to business electronic data processing problems, applications, and systems.

+#COP2121, Advanced COBOL**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisite: COP2120 or permission of instructor. A more advanced study of COBOL programming, including structured techniques processing with multiple I/O files, sequential and indexed fields, multiple control breaks, indexing, and file updating.

COP2224, Introduction to C++ Programming**3 hrs., 3 crs.****\$12.00 lab fee**

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.

COP2250, Introduction to Java Programming**3 hrs., 3 crs.****\$12.00 lab fee**

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.

#COP2333, Advanced Visual Basic Programming**3 hrs., 3 crs.****\$12.00 lab fee**

A study of advanced programming concepts using the Microsoft Visual Basic.NET programming environment. This course will investigate objects by using classes and methods. External database sources will be used for both WinForm and WebForm based programs.

+#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.

+#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,

#ETI2441, Technology Project Management**3 hrs., 3 crs.**

This course will examine projects within the framework of a technology enhanced environment to include planning, organizing, managing and controlling projects. Techniques are appropriate for a full range of management approaches including large and small projects within industrial, commercial, academic, or non-profit organizations.

#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.

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
 CCJ2949, Criminal Justice
 CNT2949, Computer Networks
 CHD2949, Child Care
 CHM2949, Chemistry
 CIS2949, Data Processing
 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
 JOU2949, Journalism
 LIS2949, Library Science
 MAC2949, Math
 MET2949, Meteorology
 MNA2949, Management
 MVO2949, Music
 NUR2949, Perioperative Nursing, \$86.00 lab fee
 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

=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.)

CJK0100 or CJK0273 or CJD0773, Correctional Officer
 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, Correctional Officer 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.)

=CJK0270, Correctional Officer 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.)

#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.

**=CJK0271 or CJK0285, Correctional Officer 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.)

**=CJK0272 or CJK0286 or CJD0772, Correctional Officer
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.)

**=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.)

< 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.

<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.

+<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
3 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.

**<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.

**<CJE2308 or CJD2332, 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.

#CJE1000, Introduction to Law Enforcement

3 hrs., 3 crs.

This course is an introduction to the philosophical and historical background of law enforcement. This course covers the organization, purpose and functions of law enforcement and other agencies involved in the administration of criminal justice in the United States. It includes career education.

#CJE1300, Police Organization and Administration

3 hrs., 3 crs.

This course covers the principles of organization and administration in law enforcement, to include functions and activities, inspection and control, and policy formulation.

<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.

#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.

+#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.

#CJE1500, Police Operations**3 hrs., 3 crs.**

This course provides an overview of the principles of organization and administration as they apply to police organizations. Topics include the responsibilities and activities of the many units and divisions within a law enforcement agency.

CJE1544, Laser and Radar Speed Measurement**45 contact hrs., 3 crs.**

Prerequisites: Students should have successfully completed the Law Enforcement Basic Training course or have been exempted and possess sufficient experience and background to meet the standard core of knowledge. Officers must have successfully passed the State Officer Certification Exam. Officers who successfully complete the Laser and Radar Speed Measurement course may be eligible for salary incentive payments, or may apply this course toward satisfying their mandatory retraining requirements, per Florida Statutes.

This course is designed for the law enforcement officer whose duties include speed enforcement to improve the officer's effectiveness in speed enforcement through the proper and efficient use of police traffic radar and laser speed measurement devices.

<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/Maintaining a Sound Organization**45 contact hrs., 3 crs.**

General concepts and principles of organization and organizational structures.

<CJE2404, Community and Human Relations**45 contact hrs., 3 crs.**

Goals, rationale, and principles of community and human relations.

#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.

**<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.

<#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.

<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.

<CJE2580, 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.

<CJE2580, 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.

#CJE2600, Introduction to Criminal Investigations**3 hrs., 3 crs.**

This course is a survey of the methods and techniques used by contemporary law enforcement agencies in criminal investigation and its role in society. The course will include studies of such aspects as the discovery of evidence and its preservation and marking, fingerprinting, and identification. The course will also explore the identification and elements of homicide, burglary, robbery, and narcotics violations.

<CJE2603, 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.

<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.

<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.

#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.

<#CJE2770, Organized Crime**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**3 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.

+ =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 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: CJK 0005 or CJK 0006.

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.**

#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.

**+CJK0031C, CMS First Aid for Criminal Justice Officers
40 contact hrs., 1.3 vocational crs.****\$6.00 lab fee**

Prerequisite: CJK 0005 or CJK 0006 (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, 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 academy 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**

Prerequisite: Permission of program coordinator.

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.**

+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 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

#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.

different types of court proceedings. **This is a limited access course and requires admission to the Law Enforcement program.**

+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.**

+CJK0081, Traffic Stops
48 contact hrs., 1.6 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 safely pull over a vehicle; identify and articulate the stop/violation; obtain necessary information from the driver/passenger; safely complete the stop; safely effect an arrest; follow NHTSA guidelines in conducting a DUI stop; and accurately complete the required documentation.

+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.

=CJK0095, Criminal Justice Special Topics
20 contact hrs., 1 vocational cr.

Comprehensive review of subjects taught in Basic Standards. (Limited access; requires admission to the Academy or special permission of chair of public safety.)

+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.**

=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.)

+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.

#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.

**=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.

**+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.

**+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 de-escalate a situation, and avoid the use of a DFSG. **This is a limited access course. It requires admission to the Law Enforcement program.**

**CJL1104, Case Preparation and Courtroom Testimony
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.

**<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.

**#CJD1640 or CJT1110, Introduction to Crime Scene
Technology
3 hrs., 3 crs.**

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 or CJT1111, Advanced Crime Scene
Technology
3 hrs., 3 crs.**

Prerequisite: CJT 1110.

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 or CJT1220, Crime Scene Photography I
3 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 or CJT1221, Advanced Crime Scene
Photography
3 hrs., 3 crs.**

Prerequisite: CJT 1220

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.

**#CJE2644 or CJT2112, 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.

**#CJL2610 or CJT2113, Courtroom Presentation of
Scientific Evidence
3 hrs., 3 crs.**

#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.

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.

#CJE2640 or CJT2141, 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.

#CJE2672 or CJT2240, 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.

+#CJE2671 or CJT2241, Latent Print Development
3 hrs., 3 crs.

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.

+#CJE2676 or CJT2260, 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.

<DSC2214, 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.

#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.

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 or CCJ2500, 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.

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.****\$9.00 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 MAT 0024.

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.****\$12.00 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.****\$21.00 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.

#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.

+#FSS2065L, Food Specialties: Pastry Specialization
4 hrs., 2 crs.**\$12.00 lab fee**

Prerequisites: Math placement test or minimum grade of "C" in MAT0024, 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.

+#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**DAA1100, Beginning Modern Dance**
2 hrs., 1 cr.

An introduction to the fundamentals of modern dance techniques, including the creative use of design, balance, movement and rhythm.

DAA1200, Beginning Ballet
2 hrs., 1 cr.

Beginning study, exercises, techniques, and terminology of ballet as an art form.

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.

DAA1680, Dance Ensemble
2 hrs., 1 cr.

By audition or permission of instructor only.

A course designed to prepare GCCC Dance Ensemble dance routines and to rehearse these routines for performance and competition. (May be repeated up to 3 times for credit.)

#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.

**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 Procedure
182 contact hrs., 6 vocational crs.
\$36.00 lab fee**

A comprehensive course designed to acquaint the student with assisting at chair side in the treatment of dental patients. Among the areas included are patient management techniques, taking and recording medical and dental histories, vital signs, performing and assisting with clinical examinations and charting, assisting with local anesthesia, and operative procedures. Emphasis is placed on infection control and maintaining dental equipment and sterilizers.

**=DEA0132, Dental Nutrition
32 contact hrs., 1 vocational cr.**

This course is designed to integrate nutrition into the diagnosis, care, and treatment of dental patients and to show the relationship between dental disease and lifestyles, eating habits, and oral health. It instills in the student an overall

**#DEA0134, Introductory Pharmacology/Office
Emergencies
32 hrs., 2 vocational crs.**

The pharmacology section is designed to familiarize the student with basic concepts and considerations regarding pharmacology and pharmaceutical preparations used in dentistry and by patients presenting for dental treatment. Chemical and physical properties, action, doses, methods of administration, therapeutic usage, side effects, indications and contraindications for pharmaceutical preparations used in dentistry will be covered. Possible interactions with medications used by patients presenting for dental treatment will be considered. Dental office emergencies deal with the

**#DEA0133, Introduction to Microbiology
16 hrs., 1 vocational cr.**

This course is intended to familiarize the student with the role of microorganisms in health and disease. Organisms of concern to the dental practitioner/ auxiliary will receive particular attention.

**+DEA0800L, Clinical Practice I
48 contact hrs., 1.5 vocational crs.
\$58.00 lab fee**

Corequisite: DEA0020C.

An introduction to basic clinical assisting skills. Students will assist with introducing the patient to the clinic and operating policies, establishing records, taking vital signs, charting, planning appointments, assisting with or performing certain dental services, performing bookkeeping entries, and dismissing patients.

**+DEA0801, Clinical Practice II
58 contact hrs., 2 vocational crs.**

Prerequisite: DEA0800L.

A series of specialty lectures and seminars designed to provide an overview of each of the dental specialty practices. The lecture series will be accompanied by the laboratory/clinical component of this course whereby students will be assigned to the specialty offices and other available clinical sites.

**+DEA0801L, Clinical Practice II Lab
198 contact hrs., 6 vocational crs.**

\$42.00 lab fee

Prerequisite: DEA0800L.

A clinical experience designed to provide each student with additional dental assisting skills. The student will progress to an intermediate skill level, apply knowledge in multiple dental assisting functions and develop proficiency in the advanced functions.

**+DEA0850L, Clinical Practice III
192 contact hrs., 6.5 vocational crs.**

Prerequisites: DEA0801 and DEA0801L.

Clinical practice 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.**

Corequisite: DEH1002L.

An introduction to the philosophy of dental hygiene, fundamental theories, principles, and procedures utilized to perform basic dental hygiene 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.

+#DEH1002L, Pre-Clinical Procedures**9 hrs., 3 crs.****\$748.00 lab fee**

Corequisite: DEH1002.

Fundamental skills needed to perform basic dental hygiene procedures.

#DEH1130, Oral Histology and Embryology**2 hrs., 2 crs.**

Prerequisites: DES1010, DES1000.

A study of histologic and embryonic development with emphasis on the face and oral cavity. Comprehensive course content includes instruction in early facial and tooth development.

#DEH1400, Oral Pathology**2 hrs., 2 crs.**

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: DEH1002. Corequisite: DEH1800L.

Emphasis is on preventive oral hygiene techniques and procedures. Treatment planning for patients with special needs will be an important component of this study. Asepsis standards in current practice is a crucial element in this course.

+#DEH1800L, Dental Hygiene Clinical I**15 hrs., 5 crs.****\$805.00 lab fee**

Prerequisite: DEH1002. Corequisite: DEH1800.

Clinical experiences designed to incorporate the basic principles and concepts of current preventive dental hygiene services. Clinical application and refinement of pre-clinical instrumentation skills and procedures with emphasis on entry-level dental hygiene services. Medical/dental health surveys, data collection, patient assessment, vital signs, treatment planning, appointment control, preventive oral prophylactic procedures, oral hygiene education, asepsis standards, and optimum oral maintenance therapy are clinical competencies cultivated through supervised practice. An introduction to the clinical management of dental/medical emergencies.

+#DEH1802C, Dental Hygiene II**5 hrs., 3 crs.****\$999.00 lab fee**

Prerequisites: DEH1800, DEH1800L.

Didactic and clinical/laboratory instruction with an emphasis on periodontal instrumentation. Clinical practice coordinated with didactic instruction to develop essential skills in advanced techniques of scaling, root planing, gingival curettage, and periodontal treatment planning.

+#DEH2300, Pharmacology**2 hrs., 2 crs.**

Prerequisite: DEH1002.

A review of basic pharmacology and study of more advanced concepts of pharmacology with emphasis on drugs related to the practice of dental hygiene. Antibiotics, drugs for anesthesia, and patient education are emphasized.

+#DEH2602, Periodontics I**2 hrs., 2 crs.**

Prerequisite: DEH1802C.

Didactic and clinical information relative to periodontology. Anatomy and physiology of the periodontium, its diseased states, systemic involvement, therapeutic objectives, and techniques and preventive measures.

+#DEH2702, Dental Public Health**2 hrs., 2 crs.****\$8.00 lab fee**

Prerequisite: DEH1802C.

Assessment, planning, implementation, and evaluation of community oral health programs and their needs. Educational aspects of dental health will also be a primary objective. Epidemiological surveys and fundamental concepts in biostatistics will be taught.

+#DEH2702L, Dental Public Health Lab**2 hrs., 1 crs.**

Prerequisite: DEH2702.

Planning and development of a community dental health project using the assessment, planning, implementation, and evaluation techniques studied in the corresponding lecture course. Formative and summative evaluations of the project will be presented in research paper format.

+#DEH2804, Dental Hygiene III**2 hrs., 2 crs.**

Prerequisite: DEH1802C. Corequisite: DEH2804L.

Clinical theory coordinated with clinical practice of dental hygiene health care delivery. Emphasizes modification of

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

treatment and the management of patients with specialized needs.

+#DEH2804L, Dental Hygiene Clinical III

15 hrs., 5 crs.

\$60.00 lab fee

Prerequisite: DEH1802C. Corequisite: DEH2804.

Designed to advance the skills of the dental hygiene student from a basic skill level to an intermediate skill level with emphasis on total patient care. Instruction and clinical experience is directed toward the treatment of the periodontally involved patient, patients with physical and mental handicaps, and the medically compromised patient. Clinical evaluations are designed to measure cognitive, psychomotor, and affective behavior.

+#DEH2806, Dental Hygiene IV

2 hrs., 2 crs.

Prerequisite: DEH2804. Corequisite: DEH2806L.

Clinical theory coordinated with the clinical application of advanced level dental health care delivery. Reinforces exist-level knowledge and skills essential to practice dental hygiene care in accordance with the Florida State Dental Practice Statutes. Professional ethics, history, and future trends in dental hygiene care will be explored. The legal aspects of dental hygiene practice will be analyzed in detail. Students will develop a professional personal resume.

+#DEH2806L, Dental Hygiene Clinical IV

15 hrs., 5 crs.

\$42.00 lab fee

Prerequisite: DEH2804. Corequisite: DEH2806.

Clinical application of advanced dental health care delivery. Develops clinical proficiency and expertise in the exit-level tasks essential for the practice of preventive dental hygiene care in accordance with the Florida State Dental Practice Act. Mastery of advanced clinical skills and efficient time utilization reinforces the student's confident, competence, and ability to self evaluate.

+#DEH2900, Dental Hygiene Competency Review

9 hrs., 3 crs.

\$46.00 lab fee

Prerequisite: Permission of program coordinator.

This course is designed to enable students who are re-entering the program to improve their clinical competencies and maintain pace in regular program courses or to remediate those students who have completed the program but need competency review to pass licensure examinations. Content will be designed to meet specific needs of the student.

=DES0501, Dental Practice Management

32 hrs., 1 vocational cr.

A study of the various practice management procedures which include communication with patients, reception procedures, telephone techniques, appointment book control, purchasing and maintaining inventory of supplies, filling systems, written communications, clinical and financial records, bookkeeping methods, banking procedures, and tax records. Job interviews, resumes, and a budget workup will be included, along with information on legal and ethical aspects of dentistry, State Dental Practice Act, professional organizations, and employment opportunities.

=DES0844, Dental Health Education

32 hrs., 1 vocational cr.

This course is designed to familiarize the dental auxiliary with the factors involved in the dental disease process and to assist the student in developing a comprehensive approach to preventive dentistry. Topics included are steps in a preventive program, educational principles, adult learners, patient motivation and involvement in personal oral hygiene, and the influence of lifestyles and nutritional effects. Emphasis is placed on current disease control techniques and auxiliary plaque control measures with special concern given to products available on the market for dental care. Dental appliances care and fluoride treatments are also included. The student will gain practical experience by developing and presenting dental health information in local elementary schools and the clinical setting during National Dental Health Month.

#DES1000, Dental Anatomy

2 hrs., 2 crs.

Comprehensive instruction in macroscopic anatomy of the human dentition. Includes the function and eruption of both deciduous and permanent dentitions.

#DES1010, Head and Neck Anatomy

2 hrs., 2 crs.

A detailed study of the skeletal, muscular, circulatory, and nervous systems of the head and neck. Special emphasis is

#DES1100C, Dental Materials

4 hrs., 3 crs.

\$30.00 lab fee

A study of the properties, manipulation, and care of materials used in the prevention and treatment of oral disease. Study of physical, mechanical, chemical, and biological characteristics of materials. Includes clinical application of dental materials and the relationship to the oral environment.

#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.

+#DES1200, Radiology I
2 hrs., 2 crs.

Corequisite: DES1200L.

Study of principles of radiology, theory and operation of X-ray equipment, darkroom procedures, film storage, and hazards and precautions involved in dental radiology,

+#DES1200L, Radiology Lab I
3 hrs., 1 cr.**\$158.00 lab fee**

Corequisite: DES1200.

Applying principles of radiology, theory and operation of x-ray equipment, darkroom procedures, film storage, and the hazards and precautions involved in dental radiology.

+#DES1201, Radiology II
1 hr., 1 cr.

Prerequisite: DES1200.

Radiology interpretation of the oral structures, surveys, and advanced techniques in extraoral radiology. Information will be presented on quality control, radiologic physics, and health physics.

+#DES1201L, Radiology II Lab
3 hrs., 1 cr.**\$24.00 lab fee**

Prerequisite: DES1200.

Laboratory assignments scheduled concomitant with lecture materials.

+#DES1203C, Dental Radiology
1 hr., 1 cr.**\$12.00 lab fee**

Prerequisite: Dental hygienist, dental assistant, radiologic technician, 18 years or older, with 3 months of experience in dental office.

Basic principles and procedures in the theory and practice of dental radiology with emphasis on radiation safety, exposing, processing, and mounting both intraoral and extraoral radiographs. Designed to meet the educational requirements of the Florida State Board of Dentistry Rule 21G-9.11 for certification of auxiliaries in dental radiology.

#DES1320, Basic Communications and Human Relations
1 hr., 1 cr.

Emphasis on effective oral and written communication with patients as well as co-workers and how that relationship affects both parties. Designed to stimulate group participation and individual growth.

Professionalism and ethics related to dental assisting will be reviewed.

#DES1404, Anatomy and Physiology
2 hrs., 2 crs.

A study of the development of the human body along with a survey of the structure, growth, and function of the body organ system.

+#DES1832, Expanded Functions
1 hr., 1 cr.

Prerequisites: DEH1002 or DEA0020C or currently employed in a dental practice with two years experience and permission of program faculty.

This course is designed to provide instruction and gain proficiency in the expanded duties legally allowable in the State of Florida. Each student will demonstrate clinical competency by completing established quotas for each intraoral task. This is the most advanced clinical course within the dental program and 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. Upon completion, 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: DEH1002 or DEA0020C or currently employed in a dental practice with two years experience and permission of program faculty.

This course is designed to provide the laboratory instruction and practice that will accompany the lecture series presented in DES 1832. The 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. To receive certification in the task, each student will demonstrate clinical competency by completing established quotas for each intraoral task.

DIGITAL MEDIA TECHNOLOGY**+#CAP2028, 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

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=PSAV course.

*Minimum grade of "C" required.

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.

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.

#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., 3 crs.

\$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., 3 crs.

\$18.00 lab fee

Participants in this course will have an opportunity to explore an introduction to professional tools, techniques and methods used in Web design and publishing. Through

the use of current industry production software, students will create and edit electronic pages, layouts and Websites.

+ #DIG2101, Web Design II
3 hrs., 3 crs.

\$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.

#DIG2205, Basic Video Editing
3 hrs., 3 crs.

\$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 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.

#DIG2280, Digital Video and Sound
3 hrs., 3 crs.

\$22.00 lab fee

Participants in this course will have an opportunity to explore basic working concepts of the art of editing through the use of desktop video production and editing software as well as 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

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=PSAV course.

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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., 3crs.

\$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., 3crs.

\$22.00 lab fee

Participants in this course will have an opportunity to explore the skills and techniques associated with 2D animation. This is an introductory course in creating two-dimensional digital animation. The software Adobe After Effects, or an equivalent substitution such as Flash, FlashMX, or Fireworks will be used. Students will explore the historical and cultural precursors to digital animation, making links between early cinema, experimental film, and our contemporary electronic milieu.

#DIG2302, 3D Modeling and Animation I

3 hrs., 3crs.

\$25.00 lab fee

Participants in this course will have an opportunity to explore the skills and techniques associated with 3D modeling and texturing. This is an introductory course in creating three-dimensional digital renderings. The following software or an appropriate substitution will be used: Photoshop for Texture editing and final touch ups on the rendered picture; SketchUp for basic 3D modeling, texture mapping and non photorealistic rendering; 3D Studio-Max for advanced modeling and photorealistic rendering. Students will explore the concepts of light, shadow, foreshadowing, polygons, textures, 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 with 3D modeling and Animation. The software 3D Studio-Max, or an appropriate substitution will be used. Students will explore the concepts of light, shadow, foreshadowing, polygons, textures, keyframes, and rendering processes as they relate to digital animation and 3D modeling.

+#DIG2410, Basic Scripting for Video & Digital Media
3 hrs., 3crs.

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
1 hr., 1cr.

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.

#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.

#GRA1100, Principles of Graphic Design**3 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.

DESIGN DRAFTING-ARCHITECTURE/INDUSTRIAL**EGS1110C, Engineering Drawing****6 hrs., 3 crs.****\$25.00 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.****\$25.00 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.

#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.

+#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.****\$25.00 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.****\$25.00 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.****\$25.00 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.****\$0.00 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.

+#ETD2465L, Jig and Fixture Design Lab**6 hrs., 3 crs.****\$25.00 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.****\$25.00 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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+TAR1120L, Architectural Drafting Lab
6 hrs., 3 crs.**\$25.00 lab fee**

Prerequisite: EGS 1110C. Corequisite: TAR 1120.

Investigation and implementation of lecture content with emphasis on drafting solutions.

+TAR 2122, 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.**\$25.00 lab fee**

Prerequisite: TAR1120. 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.**\$25.00 lab fee lab fee.**

Prerequisite: TAR1120. Corequisite: TAR2154.

Investigation and implementation of TAR 2154 lecture content with emphasis on drafting solutions using computer-aided design system.

EARLY CHILDHOOD EDUCATION/INSTRUCTIONAL SERVICES TECHNOLOGY**#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 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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.**

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.**

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 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

#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.

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 REA 0002 or REA 1930 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 REA 0002 or REA 1930 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 Education

3 hrs., 3 crs.

This course requires 15 hours of classroom observations in addition to the class time. This course is designed to familiarize the student with the teaching profession and the educational process. Specific State of Florida Department of Education programs, policies, certification requirements, and curriculum frameworks will be discussed. Other states' programs will also be analyzed. Much of this course focuses on how to design lesson plans and how to teach from such plans (scope and sequence). Coupled with the observation experiences, students will gain an understanding of the "peaks and valleys" of the education profession. A background check is required before students complete the K-12 classroom observations required by this course.

EDG2701, Teaching Diverse Populations

3 hrs., 3 crs.

This course requires 15 hours of classroom observations in addition to the class time. This course concentrates upon the historical background of the current multi-educational movement. In addition, it examines what teachers can do to make their multicultural classrooms more effective learning communities. Pre-educators and educators alike will discuss the issues about diversity that directly deal with and affect schools in the American education system. Students in this course will work in open forums to discuss and research issues of educational and societal diversity primarily pertaining to K-12 schools. When exiting this course, students will acquire a comprehensive understanding that schools are microcosms of the contemporary society that encompasses them. A background check is required before students can complete the K-12 classroom observations required by this course.

EME2040, Technology for Teachers

3 hrs., 3 crs.

This course will provide participants with hands-on experiences of integrating technology into classroom activities. Students will see examples of applications of educational technology in classroom settings and learn to apply such technology during individual, group, and laboratory exercises. The primary focus of this course is the utilization of the personal computer; however, students should not approach this course with the idea that it is an introduction to computers course. This course primarily trains pre-educators or professional educators in how to utilize technology in "teaching" settings.

#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.

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.**

This course is designed to help teachers improve reading instruction for students in grades K-12 by delivering current, relevant, scientifically based and classroom-based information on teaching reading. Course topics insure that all participants have the opportunity to demonstrate Competency 2 in reading. Topics include how children learn to read, factors effecting reading, quality reading instruction, vocabulary, comprehension, assessment,

differentiated instruction, and the importance of reflection.

EPI0020, The Teaching Profession**2 hrs., 2 crs.**

This course teaches the foundation for becoming a productive member of the teaching profession. Topics will include history and philosophy of education, school governance, school finance, school law, ethics, purpose of schools, and continuing professional development.

EPI0030, Diversity in the Classroom**2 hrs., 2 crs.**

Participants in this course will be provided opportunities to gain an appreciation for the variety of backgrounds and cultures that may be found in a typical classroom. Additional foundational theory and structured experiences will address how social class, religion, language, gender differences, culture and ethnicity, physical differences, and prejudices have an effect on how a student learns.

+EPI0940, The Teaching Profession: Field Experience**1 hr., 1 cr.****\$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.

#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.

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.

**+#EMS1555, Basic Trauma Life Support
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.

#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.

**#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.

**+#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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 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.

\$25.00 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, compaction, and

+ETC2213L, Engineering Properties of Soils Lab
3 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 prestress precasting and casting in place in the design of columns, beams, slabs, and other structures.

+#ETC2450L, Concrete Design Laboratory
3 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.

#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.

+ETG2502, Statics**3 hrs., 3 crs.**

Prerequisite: MAC1114 or MTB1322.

Basic principles of statics; resolution and composition of forces; equilibrium of forces; simple machines; trusses and frames; screws and threads; friction; centroids and center of gravity; moment of inertia, and radius of gyration. Includes scale model analysis and testing of bridge and truss-type structures.

+ETG2530, Strength of Materials**3 hrs., 3 crs.**

Prerequisite: ETG2502.

Stress and deformation; riveted and welded joints; thin-walled pressure vessels; torsion; shear and moment of beams; columns. Includes scale model analysis and testing of tower and column-type structures.

#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.

+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.

+ENC0002, Basic English**4 hrs., 3 crs.**

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.

+ENC0021, Fundamentals of Composition**5 hrs., 4 crs.**

Prerequisite: ENC0002 or satisfactory score on the Gulf Coast Community 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.

Prerequisite: Satisfactory English scores on the Florida College Entry-Level Placement Test or completion of ENC 0021 with a minimum grade of "C" and satisfactory reading scores on the Florida College Entry-Level Placement Test or completion of REA0002 or REA1390 with a minimum grade of "C." Minimum competency in word processing needed.

The rhetoric of the expository essay and the documented paper. Word processed and handwritten compositions based on reading of fiction and nonfiction. Oral component included. This course is a Gordon Rule Writing course where students will produce extensive college level writing and requires completion with a minimum grade of "C."

+ENC1102, English Composition II

3 hrs., 3 crs.

Prerequisite: ENC1101 with a minimum grade of "C." Rhetoric of the expository essay, the argumentative essay, and the documented paper. Compositions based on readings of fiction and nonfiction. This course is a Gordon Rule Writing course where students will produce extensive college level writing and 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.

ENC 2210, Technical Writing

3 hrs., 3 crs.

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 with requirements of approximately 6,000 words of writing and 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 where students will produce extensive college level writing and 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 ENC 0021 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.

LIS1004, 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, FTP, and Telnet 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.

FIREFIGHTING

Maritime

=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
225 contact hrs., 7.5 vocational crs.
\$84.00 lab fee

Corequisite: EMS1119

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. After completion, the student is eligible to test for Firefight 1 (Volunteer) certification or continue with Firefighter 2 training. Permission of the Fire Science coordinator is required.

+FFP0020, Firefighter 2
225 contact hrs., 7.5 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).

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.

#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.

#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.

+ #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.

#FFP2212, Confined Space Rescue**3 hrs., 3 crs.****\$50.00 lab fee**

Students will collect and understand data, recognize and evaluate hazards, and utilize equipment necessary to safely perform a confined space rescue; study appropriate measures to ensure compliance with OSHA, NIOSH, and other applicable standards and regulations associated with confined spaces.

+ #FFP2214, Confined Space Rescue, Technician Level**3 hrs., 3 crs.****\$50.00 lab fee**

Prerequisite: FFP2212, FFP2662, or a minimum of 24 hours of basic confined space rescue by an accredited agency.

Corequisite: Participants must sign liability waiver.

Students will collect and understand data, recognize and evaluate hazards, and utilize equipment necessary to safely perform a confined space rescue; study appropriate measures to ensure compliance with OSHA, NIOSH, and other applicable standards and regulations associated with confined spaces.

#FFP2401, Hazardous Materials I**3 hrs., 3 crs.**

Basic principles involved in the recognition of materials which are hazardous because of combustibility, toxicity, reactivity, or other properties. A study of pyrophoric metals, hypergolics and cryogenics, and insecticides. Emphasis placed on ways in which hazardous materials can be recognized in the field, and study made of sources of special information relating to safe handling of the materials and extinguishment of fires in which they are involved.

+ #FFP2402, Hazardous Materials II**3 hrs., 3 crs.**

Prerequisite: FFP2401 or FFP2500.

Further study of the chemical and physical properties of various forms of matter and their possible interaction relating to storage, transportation, and handling. Includes flammable liquids, combustible solids, oxidizing corrosives, and radioactive materials.

#FFP2521, Blueprint Reading and Plans Examination**3 hrs., 3 crs.**

Preparation course of study for exam in blueprint reading and plans.

#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.

**+#FFP2670, 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.

**#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.

**+#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.

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.

#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.

- 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).

GEOGRAPHY

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 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.

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.

#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.

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.

+#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

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.)

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 PageMaker. Practical application through production of the college newspaper. (May be taken four times for credit.)

JOU2440L, Literary Magazine Production 3 hrs., 2 crs.

Development of skills in evaluating, copyreading, and editing poetry and prose; in evaluating art and photography; and in developing layout. Practical application through production of the college literary magazine. (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 (radio, television, newspaper, books, magazines, films, and advertising).

+MMC2100, Writing for Mass Communication 3 hrs., 3 crs.

Prerequisite: ENC1101 with a minimum grade of "C."

Techniques used in preparing copy for mass communications media. Development of fundamental skills used in writing for newspapers, magazines, radio, television, 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 facts, 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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+#PLA2114, Legal Writing and Research II
3 hrs., 3 crs.

Prerequisite: PLA1104.

Study of format and purpose of legal memorandum; study of form for legal citation and law office correspondence; preparation of legal instruments and documents; drafting intra-office memorandums; and ethical considerations.

PLA2190, Legal Reasoning
3 hrs., 3 crs.

This course focuses on judgment and analytical thinking, including legal analysis, deductions, and categorization of facts and evidence; legal ethics and professional responsibility; and effective communications, including interviews and investigation of legal issues.

+#PLA2223, Civil Practice and Procedure II
3 hrs., 3 crs.

Prerequisite: PLA1203.

In depth study of Florida rules of civil procedure. Florida Appellate rules, and Florida rules of summary procedure with emphasis on application to assist lawyers in commencement of lawsuit, discovery, settlement, trial, appeal, and collection of judgments.

PLA2308, Criminal Procedure
3 hrs., 3 crs.

Study of development of criminal procedures and Constitutional safeguards, including rights to counsel, bail, search and seizure, arrest, identification, trial, and post-trial proceedings.

#PLA2433, Corporations, Partnerships, and Agency Law
3 hrs., 3 crs.

This course examines the nature, formation, financial structure, management structure, and dissolution of corporations; the formation, operation, and dissolution of partnerships and limited liability companies; and the relationship of principal and agent with third parties.

PLA2600, Wills, Trusts, and Probate
3 hrs., 3 crs.

The study of probate practices and procedures and the legal aspects of drafting wills, preparing guardianships and trusts, and administering estates.

PLA2610, Real Property Law I
3 hrs., 3 crs.

Study of laws relating to common types of real estate transactions, including conveyances, deeds, racts, and leases, with emphasis on the 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 colonial times to the end of the Civil War. This course is a Gordon Rule Writing course where students will produce extensive college level writing and 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 where students will produce extensive college level writing and 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 where students will produce extensive college level writing and 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, as well as the ways that psychological, sociological, political, philosophical, and theological ideas and issues are presented in these two art forms. This course is a Gordon Rule Writing course where students will produce extensive college level writing and requires completion with a minimum grade of "C."

#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.

+*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 where students will produce extensive college level writing and 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 of the nineteenth and twentieth centuries. This course is a Gordon Rule Writing course where students will produce extensive college level writing and 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 where students will produce extensive college level writing and 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 where students will produce extensive college level writing and 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 where students will produce extensive college level writing and 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 Renaissance to the present. This course is a Gordon Rule Writing course where students will produce extensive college level writing and 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 spanning from ancient through the present. This course is a Gordon Rule Writing course where students will produce extensive college level writing and 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****MAN 2021, 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.

#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.

MARKETING**+MAR2011, Marketing****3 hrs., 3 crs.**Prerequisite: GEB1011 or consent of instructor.
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

#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.

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.

Prerequisite: GEB1011 or consent of instructor.

Theory and administration of advertising, including functions, research, distribution, displays, direct mail, newspapers, layout,

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.

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.

+MAT0002, Pre-Algebra
4 hrs., 3 crs.

Pre-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. Calculators are not allowed in the course. Topics included are basic operations of fractions, mixed numerals, decimals, integers, percent notation and

applications, solving equations, exponential notation, order of operations, areas, volumes, ratio, and proportion. (Includes one hour per week in the Success Center or its equivalent.)

+MAT0024, Fundamentals of Algebra
5 hrs., 4 crs.

Prerequisite: Math placement test or minimum grade of "C" in MAT0002. Fundamentals of 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 mathematical symbols and expressions, development of number system, order of operations, properties of operations, operations with signed numbers, properties of equality and inequality, functions, first degree equations, absolute value, problem solving with one variable, exponents, polynomials, graphing linear equations in two variables, finding square roots, factoring, fundamental property of rational expressions, and operations with radicals.

+MTB0375, Health Math
3 hrs., 3 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 MAT0024.

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

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=PSAV course.

*Minimum grade of "C" required.

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 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 continuity; 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.

#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.

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 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 REA0002 or REA1930 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 REA0002 or REA1930 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.)

MUN 1130, 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.)

MUN 1340, 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.)

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

MUN 2120, 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.)

+MUN 2121, Concert Band II**3 hrs., 1 cr.**

Prerequisites: MUN2120, permission of instructor.

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.)

MUN 2210, 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.)

MUN 2310, 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.)

MUN 2311, 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.)

+MUN 2312, Concert Chorale II**3 hrs., 1 cr.**

Prerequisites: MUN2310, permission of instructor.

The study and performance of works representative of a wide spectrum of choral literature. (Open to all college students. May be repeated up to two times for credit.)

MUN 2710, Jazz Ensemble**3 hrs., 1 cr.**

(Audition and instructor permission required.) The study and performance of jazz and popular band literature. (May be repeated up to three times for credit. Open to all GCCC students.)

MUO 1020, 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.)

MUT 1011, 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.)

+MUT 1111, 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.

+MUT 1112, 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.

+MUT 1241, Ear Training and Sight Singing I**2 hrs., 1 cr.**

Corequisite: MUT1111.

Development of ear training skills and sight singing.

+MUT 1242, 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.

+MUT 2116, 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.

+MUT 2117, 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.

+MUT 2246, Ear Training and Sight Singing III**2 hrs., 1 cr.**

Prerequisite: MUT1242 or permission of instructor.

Corequisite: MUT2116.

Development of ear training skills and sight singing.

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=PSAV course.

*Minimum grade of "C" required.

+MUT 2247, 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

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.)

MVV 1111, Class Voice**2 hrs., 1 cr.**

Fundamentals of voice production, beginning level.

MUSIC PRODUCTION TECHNOLOGY**+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.

+MUM 2600, Sound Recording I**3 hrs., 3 crs.****\$12.00 lab fee**

Prerequisite: 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

+MUM 2600L, Sound Recording Lab**2 hrs., 2 crs.****\$11.00 lab fee**

Prerequisite or Corequisite: MUM 2600.

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=PSAV course.

*Minimum grade of "C" required.

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.

+MUM 2601, 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

MUM 2604, 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.

MUM 2720, 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.

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 managements, employee and time management, conflict resolution, computerization of health care, and legal concerns in management.

#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.

+#NUR1005C, LPN-ADN Transition

2 hrs., 1 cr.

\$11.00 lab fee

Prerequisites: BSC2085, BSC2085L.

Designed to orient the LPN-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,

+#NUR1022C, Foundations of Nursing Practice

4 hrs., 3 crs.

\$44.00 lab fee

Prerequisites: BSC2085, BSC2085L.

framework and outcomes, roles and functions of the R.N., utilization of the nursing process and selected aspects of patient assessment. Evaluation of selected clinical skills, management, and pharmacology math also included.

+#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. ent addresses the surgical experience, alterations in protective functions, oncology, death and

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=PSAV course.

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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., 4 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 alternations 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.

+#NUR2293, 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.

+#NUR2310C, Nursing Care of the Child

6 hrs., 4 crs.

\$12.00 lab fee

Prerequisites: NUR1211C, NUR1281C, SYG2000.

This course utilizes the nursing process and family-centered care to provide nursing care for children and their families in the hospital, home, ambulatory and community settings. Emphasis is placed on the application of normal growth and development principles as well as selected health problems of children. A variety of clinical rotation experiences are provided which assist the student in applying theoretical knowledge to clinical situations in the pediatric setting. Specific exercises and opportunities emphasize critical thinking, communication, cultural consideration, growth and development, assessment, legal and ethical considerations, and management principles.

+#NUR2420C, Maternal-Infant Nursing

6 hrs., 4 crs.

\$25.00 lab fee

Prerequisites: NUR1211C, NUR1281C, SYG2000.

This course focuses on the application of the nursing process to the childbearing family. ent 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 rol. Legal and ethical concepts are considered, along with selected principles of nursing leadership/ management. Concurrent campus and clinical lab experiences are provides.

+#NUR2520C, Psychiatric Mental Health Nursing

6 hrs., 4 crs.

\$4.00 lab fee

Prerequisites: NUR1211C, 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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

**+#NUR2790, 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.

**+#NUR2790L, Registered Nurse First Assistant
Lab/Clinical
150 hrs., 3 crs.
\$220.00 lab fee**

This course is designed to provide clinical experience to the registered nurse with a focus in first assisting. This course includes a study of common surgical procedures including but not limited to anatomy and physiology, pathophysiology, sequence of procedure, assisting behaviors, operative technique, and potential complications for the procedure.

**+#NUR2930, Selected Topics in Nursing I
1 hr., 1 cr.**

Prerequisite: Permission of instructor.
Individualized study of selected aspects in nursing.

**+#NUR 2932, 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.
\$47.00 lab fee**

Prerequisites: 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.

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).

**+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 problems 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 ENC0021 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

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=PSAV course.

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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 Machine Transcription

3 hrs., 3 crs.

\$12.00 lab fee

Prerequisites: OST1711 or OST1856, and OST1257 or consent of instructor.

Transcribing of medical-related materials of various forms and formats.

+OST1711, Word Processing with WordPerfect

3 hrs., 3 crs.

\$12.00 lab fee

Prerequisites: OST1101 and CGS1570 or consent of instructor.

Develops skills necessary to utilize commercial word processing software WordPerfect to effectively handle word processing needs. Topics include text insertion and deletion, storage and retrieval, formatting, printing, and other topics appropriate to the software of equipment used.

+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 develops skills necessary to utilize commercial word processing software for microcomputers, Microsoft Word 97 for Windows (or current windows version), 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 Community 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 ENC0021 with a

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

minimum grade of "C" and satisfactory reading scores on the Florida College Entry-Level Placement Test or completion of REA0002 or REA1930 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

(Offered spring semester only).

Prerequisites: CGS1570, OST1711 or 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 and create publications.

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 where students will produce extensive college level writing and requires completion with a minimum grade of "C."

+PHI2002, Introduction to Modern and Contemporary Philosophy
3 hrs., 3 crs.

Prerequisite: ENC1101 with a minimum grade of "C."
(Meets Area II Humanities requirement.)

This course is an introduction to aims and methods of philosophy through a survey of Western thought from the modern to the contemporary world. The course deals with major philosophical problems treated in the works of such philosophers as Descartes, Locke, Hume, Kant, Hegel, Nietzsche, Dewey, Sartre, and Russell. This course is a Gordon Rule Writing course where 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 where students will produce extensive college level writing and 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 where students will produce extensive college level writing and requires completion with a minimum grade of "C."

PHOTOGRAPHY

PGY2401C, Photography I
6 hrs., 3 crs.

\$36.00 lab fee

Basic photographic composition and photographic skills; operation of the camera, techniques of developing and printing, and history and criticism of photography approaches as they relate to personal expression.

PGY2410C, 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.)

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+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.

+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.

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.

PSC2341, Physical Science Survey**3 hrs., 3 crs.**

A survey of selected topics in physics and chemistry. Simple mathematical manipulations with whole numbers are used.

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=PSAV course.

*Minimum grade of "C" required.

**+PSC2341L, Physical Science Survey Laboratory
2 hrs., 1 cr.****\$21.00 lab fee**

Corequisite: PSC2341 or consent of instructor.
Selected laboratory experience emphasizing basic scientific principles through the use of simple equipment. Designed for Pre-Elementary Teacher Education majors.

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 role. 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 PHT 1124 in movement, posture, and gait analysis and measurement. Focus on the development of sound application of kinesiological and biomechanical concepts to human movement and on the development of keen and effective visual and manual observational skills, surface anatomy, and palpation.

**+PHT1131, Assessment, Measurement, and Documentation
1 hr., 1 cr.**

Prerequisite: 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.**

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 role; 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.**

\$33.00 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.

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=PSAV course.

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**+#PHT1220L, Therapeutic Exercise Lab
4 hrs., 2 crs.****\$4.00 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, and 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.****\$14.00 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 PHT 2224. Practice in performing, assisting, teaching, and documenting therapeutic exercises and treatment techniques for selected medical/surgical disabilities.

**+#PHT2225, Therapeutic Interventions II: Orthopedic Disabilities
3 hrs., 3 crs.**

Prerequisites: PHT2224, PHT2224L.

Exploration of basic pathological processes in body systems and their clinical signs and symptoms in physical disabilities associated with selected orthopedic disabilities. Relationships between pathological conditions and their prognosis and treatment. Pharmacological aspects of treatment with implications for physical therapy treatment.

**+#PHT2225L, Therapeutic Interventions II Lab
4 hrs., 2 crs.**

Corequisite: PHT2225.

This is a laboratory course designed to develop skill in the application of concepts presented in PHT 2225. Practice in performing therapeutic exercises and treatment techniques for selected orthopedic disabilities.

**+#PHT2226, Therapeutic Interventions III: Neurological Disabilities
3 hrs., 3 crs.**

Prerequisites: PHT2224, PHT2224L.

Exploration of basic pathological processes in body systems and their clinical signs and symptoms in physical disabilities associated with selected neurological conditions. Relationships between pathological conditions and their prognosis and treatment. Pharmacological aspects of treatment with implications for physical therapy treatment.

**+#PHT2226L, Therapeutic Interventions III Lab
4 hrs., 2 crs.**

Corequisite: PHT2226.

This is a laboratory course designed to develop skill in the application of concepts presented in PHT 2226. 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

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=PSAV course.

*Minimum grade of "C" required.

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 licensing exam preparation. Presentation of in-service and quality assurance projects. Final comprehensive exam.

Advanced Technical Certificate In
Massage Therapy

#PHT 2203, 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.

\$23.00 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.

PHYSICS

+#PHY1007, Physics for the Health Related Technologies
3 hrs., 3 crs.

Prerequisite: MAT1033 or higher.
This is not a general education course. It is designed for a person with no physics background and planning on entering a health related program. It covers units, mechanics as applied to the human body, energy, waves, optics, and atoms.

#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.

+PHY1023, Survey of General Physics**3 hrs., 3 crs.**

Prerequisite or Corequisite: MAC1140.

A conceptual approach to physics with emphasis on problem solving. This course is designed for students who plan to take PHY 2048 and have had no previous physics course.

+PHY2048, University Physics I**4 hrs., 4 crs.**

Prerequisites: MAC2311 and PHY1023.

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.**

Prerequisite: PHY2048. Corequisite: PHY2049L.

A continuation of PHY2048 involving selected topics from sound, thermodynamics, optics, electricity, and magnetism.

+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 or Corequisite: MAC1140. 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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

PRACTICAL NURSING

=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).

+HSC0530, Medical Terminology
15 contact, .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, 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.

+PRN0000C, Fundamentals of Nursing Care
270 contact, 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 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.

+PRN0020, Life Span
15 contact, .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.

+PRN0022, Structure and Function
60 contact, 2 vocational crs.

Prerequisite: PRN0000C.

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.

+PRN0030C, Introduction to Pharmacology/Medication Administration

45 contact, 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, 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, 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, 7 vocational crs.

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.

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=PSAV course.

*Minimum grade of "C" required.

**+PRN0383C, Medical-Surgical Nursing II
300 contact, 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, .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, 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 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 his 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,

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=PSAV course.

*Minimum grade of "C" required.

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.

+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

+RTE1000C, Introduction to Diagnostic Imaging
4 hrs., 3 crs.

\$49.00 lab fee

Prerequisite: Admission to the program.

Students are taught the basic concepts of the health care system, ethics, professionalism, and patient care applied to all age groups. Introduction to fundamentals of radiologic technology, the equipment required to generate x-rays, nature and behavior of radiation, basic radiation protection, and medical terminology are included in the focus of this class. In addition, students participate in laboratory exercises introducing the safe operation of radiographic equipment, application of proper body mechanics for lifting and moving patients, standard precautions, equipment, and techniques involved in patient monitoring.

+RTE1418C, Principles of Radiographic Exposure I
4 hrs., 3 crs.

\$49.00 lab fee

Prerequisite: RTE1000C.

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.

+RTE1457, Principles of Radiographic Exposures II
3 hrs., 3 crs.

Prerequisite: RTE1418C.

A continuation of RTE 1418C with emphasis on image quality, film sensitometry, grids, digital radiography, fluoroscopy, formulation of exposure systems and automatic exposure devices.

+RTE1503C, Radiographic Procedures and Positioning I
4 hrs., 3 crs.

\$49.00 lab fee

Prerequisite: Admission to the program.

This class includes a review of medical terminology, basic nursing procedures, and radiographic radi media and their administration. Basic anatomy and radiographic positioning of the human body in examination of the chest, abdomen, and extremities are thoroughly covered. Trauma radiography is introduced along with the application of radiographic equipment and technical exposure factors for the exams presented.

#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.

+#RTE1513C, Radiographic Procedures and Positioning II
5 hrs., 3 crs.**\$49.00 lab fee**

Prerequisite: RTE1503C.

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, and sternum. Discussion includes trauma radiography along with the application of radiographic equipment and technical exposure factors for the exams presented.

+#RTE1523C, Radiographic Procedures and Positioning III
5 hrs., 2 crs.**\$49.00 lab fee**

Prerequisite: RTE1513C.

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 skull and facial bones. Trauma radiography along with the applications of radiographic equipment and technical exposure factors for the exams presented will be discussed.

#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.****\$38.00 lab fee**

Corequisites: 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.

+#RTE1814, Clinical Education II**256 hrs., 3 crs.****\$13.00 lab fee**

Prerequisite: RTE1804.

Observation and application of the primary healthcare principles will be the focus of this clinical rotation. The student will begin to apply the radiographic principles and skills taught in RTE 1503C.

+#RTE1824, Clinical Education III**336 hrs., 4 crs.****\$13.00 lab fee**

Prerequisites: RTE1814.

Observation and application of the primary of healthcare principles will be the focus of this clinical rotation. The student will inue 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.

+#RTE2061, Radiography Seminar**1 hr., 2 crs.**

Prerequisites: RTE2385, RTE2563.

Preparation of new graduates for entry into the field, and the transition to the role of professional caregiver; an in-depth analysis of professional competencies required for entry into the workplace, including: radiographic procedures, patient care, image production and evaluation, equipment operation and maintenance, radiation protection, and evaluation processes.

+#RTE2385, Radiobiology**3 hrs., 3 crs.**

Prerequisite: RTE1000C.

The student will receive instruction on the effects of ionizing radiation on organisms with an emphasis on changes at the cellular level. Incidences of cancer induction related to exposure to ionizing radiation will also be discussed. In addition, the student will learn the procedures for radiation detection and how this relates to radiography.

+#RTE2473, Radiographic Quality Assurance**2 hrs., 2 crs.**

Prerequisite: RTE1418C.

The student will receive instruction and basic equipment tests to ensure consistent and proper performance of radiographic equipment. The rationale of a quality assurance program will be discussed with a focus on quality control evaluation and documentation.

+#RTE2563, Advanced Medical Imaging**5 hrs., 3 crs.**

Prerequisite : RTE2762.

This course prepares the radiographer to conduct diagnostic vascular procedures and patient care in angiography, peripheral venography, vascular, and non-vascular interventions. An introduction to CT, MRI, sonography, nuclear medicine, surgical radiography, and radiation therapy is provided. Students will research and present a topic in selected advanced radiologic modalities.

#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.

+#RTE2762, Sectional Anatomy/Pathology
3 hrs., 3 crs.

Prerequisites: BSC2085, BSC2085L, BSC2086, BSC2086L.
Identification of normal and abnormal anatomic structures of the skull, neck, thorax, reproduction, central nervous, cardiovascular, and musculoskeletal systems by the use of diagnostic and cross-sectional imaging modalities.

+#RTE2834, Clinical Education IV
384 hrs., 4 crs.**\$38.00 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 and RTE 1513C. In addition, the student will begin applying the principles taught in RTE 1523C.

+#RTE2844, Clinical Education V
384 hrs., 4 crs.**\$13.00 lab fee**

Prerequisite: RTE2834.

Observation and application of primary healthcare principles will be the focus of this clinical rotation. The student will inue to build on the radiographic principles and skills taught in RTE 1503C, RTE 1513C, and RTE 1523C. In addition, the student will inue clinical rotations into the surgical suite and portable radiography.

+#RTE2854, Clinical Education VI
144 hrs., 2 crs.**\$13.00 lab fee**

Prerequisite: RTE2844.

Application of principles and performance of radiographic procedures will be the focus of this clinical rotation. Students will demonstrate a mastery of the basic skills necessary to perform a variety of radiographic procedures. Students will also, on a rotational basis, begin clinical observation of advanced modalities to include CT, MRI, US, Special Procedures, Nuclear Medicine, and the Cardiac Catheterization Lab.

**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,

raindications, 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,

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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.

**+#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.

REA0001, Reading Skills I

4 hrs., 3 crs.

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 Community 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.)

+REA0002, Reading Skills II

4 hrs., 3 crs.

Prerequisite: Satisfactory score on the Gulf Coast Community College placement test or completion of REA0001 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.)

#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.

College-Level Reading**+REA1930, Special Topics in Reading
3 hrs., 3 crs.**

Prerequisite: Satisfactory English score on the Florida College Entry-Level Placement Test or completion of REA0001 with a minimum grade of "C." This course may be used as an alternative to REA 0002 as a prerequisite for ENC1101. In order to meet the the reading prerequisite for ENC 1101 or any other college level course requiring a reading prerequisite, students who are substituting REA 1930 for REA 0002 must take and pass the REA 0002 exit exam and pass the course with a "C" or place into college reading by means of the CPT.

A course that focuses on developing and refining reading skills primarily through reading and responding to full-length, thematically related works.

**+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 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, compara-ble-sales analysis, cost-depreciation analysis, appraisals of attached and manufactured housing, and appraisal reports. (Successful completion is necessary to obtain certification as a Registered/Licensed Appraiser in Florida.)

**+#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 where students will produce extensive college level writing and 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 ext of American religious life. Emphasis

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 where students will produce extensive college level writing and 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 where students will produce extensive college level writing and requires completion with a minimum grade of "C."

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

Topics include setting objectives of patient care, theory and procedure for handling of compressed gases, humidity, O₂, and IS. Laboratory and related clinical experiences will be part of this unit.

#RET1264C, Respiratory Care II

19 hrs., 9 crs.

\$65.00 lab fee

A lecture, laboratory, and clinical course covering theory, procedures, and equipment of respiratory care. Topics include CPT, HHN therapy, IPPB airway control, 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.

The route and methods of drug administration; effects and mechanisms of drugs; absorption and excretion of drugs; classification and description of drugs commonly used in respiratory therapy.

#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.

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=PSAV course.

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#RET1934, Selected Topics Seminar V**1 hr., 1 cr.**

This course provides the student Advanced Cardiac Life Support (ACLS) certification.

#RET1935, Selected Topics Seminar VI**1 hr., 1 cr.**

This course will cover the theory, procedures, and selected clinical practice of pulmonary function testing.

#RET1936, Selected Topics Seminar VII**1 hr., 1 cr.**

This course will introduce the new and constantly changing concepts and procedures in respiratory care.

+#RET2007, Pulmonary Pharmacology II**3 hrs., 3 crs.**

Prerequisite: RET1350.

This course will continue the study of pulmonary pharmacology to include anti-microbial agents, anti-smoking therapy, neonatal and pediatric drug therapy, critical care and cardiovascular drugs.

#RET2234, Critical Thinking in Respiratory Care**1 hr., 1 cr.**

This course examines critical thinking, assessment, and evaluation techniques necessary in the development of respiratory care plans and therapist driven protocols. Case studies and simulations will be utilized to enhance learning.

#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**

This course will cover fetal, neonatal, and infant development, assessment, and mechanical ventilation. Students will obtain Neonatal Resuscitation Program (NRP) certification. NBRC SAE exams will be utilized to prepare the student for credentialing exams.

#RET2616, 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**

A lecture, lab, and clinical course covering basic concepts in 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.

#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.

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. 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 emporary American family.

SONOGRAPHY**+SON1000C, Introduction to Sonography****3 hrs., 2 crs.****\$60.00 lab fee**

Prerequisite: Program Admission, BSC2085, BSC2085L.

An introduction to the profession of sonography and the role of the sonographer. Emphasis 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**

Corequisite: SON1170.

This course is designed to introduce the entry-level student to the fundamentals of diagnostic medical Sonography (DMS). The course will focus on the following topics as they relate to DMS: procedures and protocol; patient care; clerical duties; ethics; legal issues in health care; and professional (DMS communications). Additionally, this course will interlink with the other courses in the DMS curriculum during both the didactic and clinical components of the program.

+SON1111, Abdominal Sonography I**3 hrs., 3 crs.**

Prerequisites: SON1100C, SON1170. Corequisites: SON1804, SON1121.

This course is designed to correlate the sonographic anatomy, physiology, and pathology of the following organs/systems: muscles; major vasculature; liver, biliary system; retroperitoneal organ/structure; and pancreas. The course will emphasize the sonographic features and characteristics of normal anatomy as well as the pathologies that might affect each organ. The course will also integrate clinical and diagnostic procedures, which are common to and specific to each organ.

+SON1112, Abdominal Sonography II**3 hrs., 3 crs.**

Prerequisites: SON1111. Corequisites: SON1814, SON1122.

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; and intraperitoneal organs. The course will emphasize the sonographic features and characteristics of normal anatomy as well as the pathologies that might affect each organ/system. The course will also integrate clinical and diagnostic procedures, which are common to and specific to each organ.

+SON1121, OB/GYN Sonography I**3 hrs., 3 crs.**

Prerequisite: SON1100C, SON1170. Corequisites: SON1804, SON1111.

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

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introduced to the first trimester of pregnancy including its related anatomy, physiology, and possible pathology and/or complications. Embryology, early fetal development, sonographic identification and imaging of the embryo and fetus, trans-abdominal and trans-vaginal scanning techniques will be covered.

+#SON1122, OB/GYN Sonography II
3 hrs., 3 crs.

Prerequisite: SON1121. Corequisites: SON1814, SON1112.

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
1 hr., 1 cr.

Prerequisite: SON1100C. Corequisites: 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 integrate clinical and diagnostic procedures of the male pelvis and scrotum; breasts; neck and thyroid.

+#SON1170, Sonography of the Circulatory System
3 hrs., 3 crs.

Prerequisite: BSC2085, BSC2085L. 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.

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., 3 crs.
\$78.00 lab fee

Prerequisite: SON1100C, SON1170. Corequisites: SON1111, SON1121.

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
410 hrs., 3 crs.
\$78.00 lab fee

Prerequisite: SON1804. Corequisites: SON1112, SON1122.

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., 4 crs.
\$13.00 lab fee

Prerequisite: SON1814.

This course is a continuation of Abdominal & OB/GYN II. A goal of this final 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, Sonographic Cross-Sectional Anatomy
2 hrs., 2 crs.

Prerequisite: Program faculty approval. Corequisite: SON1170.

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
8 hrs., 4 crs.
\$60.00 lab fee

Prerequisite: Program Admission, BSC2085, BSC2085L. This course introduces the fundamental theory and skills necessary for the evaluation of vascular disease using

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

noninvasive technique. Hemodynamics, instrumentation, vascular anatomy, physiology and physical principles are emphasized. Cerebrovascular, peripheral arterial and venous testing are included in this course.

+#SON2175, Vascular Sonography
3 hrs., 3 crs.

Prerequisite: SON2171C. Corequisite: SON1112.
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.

+#SON2834, Clinical Education IV
560 hrs., 4 crs.
\$13.00 lab fee

Prerequisite: SON1824
This course is the final course of the curriculum. Its goal is to have the students strive to perform under indirect supervision while exercising independent judgment relative to the entirety of the sonographic examinations being performed and to generally progress to the point where he/she may be accepted as a competent entry level sonographer. The students must meet their exiting competencies.

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 will integrate the following five national standards for foreign language education: 1) communication: communicate in languages other than English; 2) cultures: gain knowledge of other cultures; 3) connections: connect with other disciplines and acquire information; 4) comparisons: develop insight into the nature of language and culture; and 5) communities: participate in multilingual communities at home and around the world. 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 integrate the following five national standards for foreign language education: 1) communication: communicate in languages other than English; 2) cultures: gain knowledge of other cultures; 3) connections: connect with other disciplines and acquire information; 4) comparisons: develop insight into the nature of language and culture; and 5) communities: participate in multilingual communities at home and around the world. 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.)
Readings dealing with Spanish culture and civilization, grammar review, and oral practice. Use of visual and auditory aids. This course is a Gordon Rule Writing course where 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.
Continuation of SPN2200 with emphasis on conversation with authentic cultural materials. Authentic listening, reading, and viewing materials based on everyday culture

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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 practical needs of the general student.

STUDENT LIFE SKILLS

+SLS1201, Personal Development

3 hrs., 3 crs.

Acceptable Corequisites: ENC0021, MAT0002, MAT0024, REA0001, REA0002, 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 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 TECHNOLOGY

+HSC0005, Orientation to Health Sciences

45 hrs., 1.5 vc.

Corequisite: HSC0005L.

The purpose of this course is to introduce the student to the health care delivery system and provide an overview of the role and responsibility of members of the health care team. Common illnesses are 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, which are common to all

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health occupations. Topics include patient and professional communication, proper patient identification, and monitoring of patient status.

+HSC0005L, Orientation to Health Sciences Lab
15 hrs., 0.5 vocational crs.
\$52.00 lab fee

Corequisite: HSC0005.

Lab to accompany HSC0005, Orientation to Health Sciences.

+STS0003, Introduction to Surgical Technology
90 hrs., 3 vocational crs.

Prerequisite: HSC0005.

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 rol, 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.
\$48.00 lab fee

Prerequisite: HSC0005.

Lab and clinical practicum to accompany STS 0003, Introduction to Surgical Technology.

+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
15 hrs., 0.5 vocational crs.
\$60.00 lab fee

Prerequisites: STS0155 and STS0155L.

Lab to accompany STS 0120, Surgical Specialties I.

+STS0121, Surgical Specialties II
30 hrs., 1 vocational cr.

Prerequisite: STS0120 and STS0120L.

Course is designed to prepare students for surgical procedures including review of anatomy, relevant equipment, supplies, and techniques regarding maxillary/mandibular surgery, oral surgery, genito-urinary surgery, gynecological surgery, orthopedic surgery, neurosurgery, cardiovascular surgery, and general surgery. Depth of coverage will be determined by the Core Curriculum for Surgical Technologists published by the Association of Surgical Technologists.

+STS0121L, Surgical Specialties II Lab
15 hrs., 0.5 vocational crs.
\$68.00 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
15 hrs., 0.5 vocational crs.
\$215.00 lab fee

Prerequisites: STS0121 and STS0122L.

Lab to accompany STS 0122, Surgical Specialties III.

+STS0155, Surgical Techniques and Procedures
105 hrs., 3.5 vocational crs.

Prerequisite: STS0003 and STS0003L.

Course is designed to introduce students to aseptic technique, infection rol 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.
\$60.00 lab fee

Prerequisites: STS0003 and STS0003L.

Lab and clinical practicum to accompany course STS 0155, Surgical Techniques and Procedures.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+STS0255L, Surgical Procedures Clinical I
180 hrs., 6 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

+STS0256L, Surgical Procedures Clinical II
180 hrs., 6 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 Technologists published by the Association of Surgical Technologists.

+STS0257L, Surgical Procedures Clinical III
190 hrs., 6.5 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
15 hrs., 0.5 vocational crs.**\$24.00 lab fee**

Corequisite: STS0803.

Lab to accompany STS0803, Pharmacology and Anesthesia.

=STS0804, Basic Microbiology
60 hrs., 2 vocational 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 us against pathogenic microorganisms, principles of wound healing, and how chemotherapeutic agents assist in this task. Various significant aspects of several infectious diseases that occur in humans are also covered.

=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.

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 REA0002 or REA1930 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 REA0002 or REA1930 with a minimum grade of "C." (Meets Area I Humanities requirement).

An introduction to the film industry. Covers silent cinema, the Hollywood studio era, temporary world cinema. These topics are treated by exploring the aesthetic aspects of film and by examining its economics and sociology.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+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 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).

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.

#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.

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.

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 in 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 ribute 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.

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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

+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. 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 sear 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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+Prerequisite and/or corequisite required.

=PSAV course.

*Minimum grade of "C" required.

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 31 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online Statewide Course Numbering System 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 Statewide Course Numbering System. The list of course prefixes and numbers, along with their generic titles, 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
SYG	1	0	1	0	
Sociology, General	Lower (Freshman) Level at this institution	Entry-Level General Sociology	Social Problems Survey Course	Social Problems	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. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 34 different postsecondary institutions. Each institution uses "SYG_010" to identify its social problems 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, "SYG" means "Sociology, General," the century digit "0" represents "Entry-level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

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

Transfer of any successfully completed course from one 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, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully complete SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. 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.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category 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

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, Practica, Study Abroad, Thesis and Dissertations.
- D. College preparatory and vocational preparatory courses.
- E. Graduate courses.
- F. Internships, 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 are not guaranteed as transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Dr. Jeffrey Stevenson, Chief Economic Development Officer at Gulf Coast Community College or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or via the internet at <http://scns.fldoe.org>.

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Certified Business Analyst
 A.A., Gulf Coast Community College
 B.S., Florida State University
- Peaden, Adria D. (2007)**
Associate Professor of Computer Science
 B.S., Florida State University
 M.S., Florida State University
- Peltz, Rick L. (2004)**
Systems Support Analyst
 A.S., Gulf Coast Community College
- Penton, Sr., Ronald A. (1989)**
Associate Professor of Sociology
 A.A., Los Angeles Community College
 B.S., University of Maryland
 M.A., Pepperdine University
- Petersen, Deanna D. (2001)**
Assistant Professor of Mathematics
 B.A., Grinnell College
 M.A., Columbia University
- Phelps, Marko L. (1988)**
Manager of Network Systems
 A.S., Gulf Coast Community College
 A.S., Vernon Regional Junior College
- Phillips, John P. (1998)**
Professor of 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
- Pinero, Melissa S. (2009)**
Coordinator of TRIO
 B.A., F.T. Hays State University
 M.A., Mississippi State University
- Poole, Dennis K. (1984)**
Assistant Professor of Biology
 B.S., San Diego State University
 M.S., San Diego State University
- Pooler, Carolyn S. (2008)**
Career Manager
 A.A., Strayer University
 B.B.A., Strayer University
- Poston, Elaine S. (2008)**
English Learning Manager
 B.A., Western Kentucky University
 M.A., Western Kentucky University
- Powell, Jay C. (2007)**
Coordinator of 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)**
Assistant Professor of Mathematics
 A.A., Gulf Coast Community College
 B.S., University of West Florida
 M.S., University of West Florida
 Ed.S., Florida State University
- Randall, Diane M. (2005)**
Assistant Coordinator of Disability Support Services
 A.A., Gulf Coast Community College
 B.S., Florida State University
 M.S., Florida State University
- Redd, Billy J. (2002)**
Culinary Instructor
 A.S., Gulf Coast Community College
 C.E.C., American Culinary Federation
- Reese, Katrina M. (2007)**
Assistant Coordinator of Respiratory Therapy Program
 C.R.T.T., Gulf Coast Community College
 A.S., Tallahassee Community College
 A.A., Tallahassee Community College
 B.S., University of Central Florida
- Renfroe, Brian C. (2007)**
Programmer/Analyst
 A.A., Gulf Coast Community College
 B.S., University of West Florida
- Reynolds, Angelia S. (1990)**
Chair, of Mathematics Division
 B.S., Alabama State University
 M.S., Alabama State University
- Rhines, Bradford W. (2002)**
Associate Professor of English
 B.S., University of Southern Mississippi
 M.A., University of Arkansas
- Rhodes, Mary R. (2007)**
Instructor of LPN
 A.S., Gulf Coast Community College
 A.A., Gulf Coast Community College
 B.S.N., Florida State University
- Rising, Leah L. (2008)**
Dental Instructor, Health Sciences
 B.S., University of Louisville
 M.S., University of Kentucky
- Ruder, Martha C. (1996)**
Assistant Coordinator of Nursing
 B.S.N., University of Maryland
 M.S., University of Maryland
- Salter, Teresa E. (2006)**
Assistant Academic Program Coordinator of EPI
 A.A., Enterprise-Ozark Community College
 B.S., Troy State University
 M.S., Troy State University
- Samples, Gloria E. (2006)**
Program Manager of ESOL Program
 B.A., UCCC Columbia Cooperative Education
- Schenck, Patricia A. (2006)**
Academic Program Coordinator of EPI
 B.S., Louisiana Tech University
 M.S., Louisiana Tech University
- Scovel, Mary P. (1996)**
Coordinator of Women's Basketball
 B.S., University of Florida
 M.Ed., University of West Florida
- Sheetz, James H. (2009)**
Assistant Professor of Natural Sciences
 B.A., Howard College
 Ph.D., University of Alabama
- Simmons, Valerie (2009)**
Certified Business Analyst
 B.S., Edison State

Smith, Elizabeth A. (2006)**Aquatics Specialist**

A.A., Gulf Coast Community College
B.S., Florida State University

Smith, Henry M. (2007)**Assistant Professor of English**

B.S., University of Montevallo
M.T.S., Samford University
M.A., University of Montevallo

Smith, Roy W. (1976)**Vice President of Student Support and Enrollment Management**

B.S., Southern Connecticut State University
M.S., Southern Connecticut State University

Smitherman, Angela (2005)**Coordinator of Human Resources**

B.S., Park University
M.A., Webster University
SPHR

Stevens, Kaylyn N. (2009)**Assistant Coordinator of Recruitment**

A.A., Gulf Coast Community College
B.S., Florida State 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, Richard B. (1979)**Chair of Business Division**

B.S., Troy State University
M.B.A., Florida State University
Securities Diploma, New York Institute of Finance

Stirn, Patricia L. (1996)**Assistant Coordinator, Network Services**

A.S., Gulf Coast Community College

Storck, Dennis D. (1999)**Superintendent of Grounds & Building Services**

B.S., Miami University
M.B.A., Miami University
M.A.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 of Media & Community Relations**

B.S., University of Florida
M.S., Florida State University

Tidwell, R. Jerome (1984)**Associate Professor of 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

Tingler, Yolanda M. (2004)**Learning Manager, Sign Language Interpreter**

A.A.S., Sinclair Community College

Todd, Sharon O. (1988)**Director of Enrollment Services**

A.A., Gulf Coast Community College
B.S., Florida State University
M.S., Florida State University

Trentanelli, Elizabeth (2004)**Associate Professor of Political Science**

A.A., Polk Community College
B.A., Florida State University
M.P.A., University of South Florida

Trusty, Jennifer L. (2009)**Assistant Professor of Natural Sciences**

B.S., Dartmouth College
Ph.D., Florida International University

Van Dalen, Linda B. (1982)**Coordinator of Disability Support Services**

A.S., Ricks College
B.S., Brigham Young University
M.S., Virginia Commonwealth University

VanDerSchaaf, DeeAnn (2004)**Coordinator of Radiography Program**

A.A.S., Houston Community College
B.S.R.S., Midwestern State University
M.S., Troy University

Vandervest, James R. (1980)**Professor of Drafting**

B.S., Western Michigan University
M.A., Western Michigan University

VanNette, Tara (2006)**Assistant Professor of Philosophy and Religion**

B.A., Heidelberg College
M.A., Cleveland State University

Vossler, Lauren M. (2006)**Assistant Coordinator of Financial Aid**

A.A., Gulf Coast Community College
B.A., Florida State University
M.S., Florida State University

Walker, Rosemary N. (2008)**Instructor of Business**

B.S., University of Tennessee
M.A., Stamford University

Wall, Mary E. (1994)**Assistant Coordinator of Public Safety**

A.A., North Florida Junior College
B.S., Florida State University

Wallace, Arnold Lynn (1989)**Director of Developmental Studies**

B.A., Pennsylvania State University
M.A., Pennsylvania State University

Walls, Alice F. (2004)**Coordinator of 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 of Physical Therapist Assistant Program**

A.A., Gulf Coast Community College
A.S., Gulf Coast Community College

Washington, Jr., Mosell (1989)
Director of Human Resources
 A.A., Gulf Coast Community College
 B.S., Florida State University
 M.S., Florida State University

Webb, Jamieson D. (2003)
Associate Professor of Physical Science
 B.S., Auburn University
 M.S., Auburn University

Wells, Douglas A. (2001)
Associate Professor of English
 A.A., Florida Community College at Jacksonville
 B.A., University of South Florida
 M.A., University of South Florida

West, Barbara E. (1998)
Passport Program Specialist
 B.S.N., Virginia Commonwealth University
 M.B.A., Florida State University

Westcott, John D. (2007)
Superintendent of Construction & Maintenance

Westlake, Christopher J. (2000)
Director of Financial Aid
 B.S., Southeast Missouri State University
 M.B.A., Florida State University

Wheeler, Donna G. (1991)
Associate Professor of Nursing
 A.S., Certificate Gulf Coast Community College
 A.S., Gulf Coast Community College
 A.A., Gulf Coast Community College
 B.S.N., Florida State University
 M.S.N., Florida State University

Whittington, Susan S. (2001)
Coordinator of Financial Services, Workforce Development
 B.A., University of West Florida

Williams, A. Scott (2003)
Assistant Coordinator of Emergency Medical Services Program
 EMT Certificate, Pensacola Junior College
 B.S., University of West Florida

Williams, Keegan N. (2006)
Assistant Coordinator, Radiography
 A.S., Gulf Coast Community College
 B.S., Midwestern State University

Williams, Willard J. (1984)
Business Academic Program Coordinator
 A.A., Gulf Coast Community College
 B.A., University of West Florida
 M.B.A., 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 of 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, Danella (2000)
Assistant Coordinator of Workforce Development
 A.A., Gulf Coast Community College
 B.S., University of West Florida

Wood, Glenda M. (2007)
English Learning Manager
 B.S., Florida State University

Woodham, Patti D. (1998)
Professor of English
 B.A., University of Alabama
 M.A., University of Alabama

Zacchio, Tony J. (2001)
Manager II
 A.A., Gulf Coast Community College
 B.S., University of Florida

Zimmerman, Li A. (2008)
Web Programmer
 B.S., Jacksonville State University
 M.S., University of Kentucky

Zombori, Sandor (2007)
Assistant Professor of Culinary Management
 B.S., University of Massachusetts
 M.B.A., New Hampshire College
 Chef de Cuisine Diploma
 Le Cordon Bleu, Paris. France

EMERITUS

Adair, Linda B. (1975-2008)
Vice President Emeritus
 B.S., Furman University
 M.A., University of West Florida
 Ph.D., University of North Carolina

Baugh, Anna Marie (1970-1998)
Professor Emeritus
 B.S., Florida State University
 M.S., Nova University

Breegle, Winifred M. (2001-2008)
Professor Emeritus
 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

Campbell, Letha J. (1977-1998)
Professor Emeritus
 A.A., Rosenwald Junior College
 B.S., Florida A&M University
 M.E., Florida A&M University

Daugherty II, George I. (1987-2001)
Professor Emeritus
 M.S., University of Texas
 D.D.S., Marquette University

Etheridge-Barkely, Sandra (1967-2003)
Professor Emeritus
 B.S., Limestone College
 M.A.T., Duke University
 Ph.D., Florida State University

Gibson, Dauhrice K. (1973-2003)**Professor Emeritus**

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 Emeritus**

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

Jones, Robert C. (1969-2003)**Professor Emeritus**

B.A., University of Northern Iowa
 M.A., Colorado State College

McFatter, Janice (1966-2003)**Professor Emeritus**

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 Emeritus**

B.S., Florida State University
 M.S., Florida State University

Pelt, Peggy D. (1972-2008)**Professor Emeritus**

B.S., University of Southern
 Mississippi
 M.S., University of Southern
 Mississippi
 Ph.D., Florida State University

Preston, Sandra E. (1970-2004)**Professor Emeritus**

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 Emeritus**

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

Strickland, Carolyn S. (1973-2007)**Professor Emeritus**

B.S., University of Alabama
 M.A., University of Alabama

Syfrett, Ann S. (1969-2003)**Professor Emeritus**

B.S.N., University of Florida
 M.N., University of Florida

Whitlock, Pamela L. (1973-2004)**Dean Emeritus**

A.A., Gulf Coast Community College
 B.A., University of West Florida
 M.Ed., Middle Tennessee State
 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**Ackerman, Michael (2006)**

Groundskeeper

Akins, Debra B. (2000)

Data Analyst

Altigieri, Krystal N. (2008)

Senior Cashier

Ash, Candy S. (1998)

Senior Administrative Secretary
 B.S., Florida State University

Banks, Melissa A. (2006)

Senior Bookkeeper, Payroll
 A.A., Chipola Jr. College

Bennett, Dorrie E. (Beth) (1990)

Executive Administrative Assistant

Bishop, Megan (2005)

Senior Administrative Assistant

Black, Mary J. (2004)

Sign Language Interpreter

Bonanno, Carol L. (2007)

Administrative Assistant

Bowen, Marilyn (2009)

Project Assistant

Brewer, Carol A. (2006)

Senior Administrative Assistant

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

Bruner, Kevin A. (2004)

Lead Network Support Technician
 A.A., Gulf Coast Community College
 B.A., University of West Florida

Buckner, Thomas L. (2003)
Intake Orientation Assistant

Burkett, Brenda S. (1999)
Administrative Assistant

Cain, Larry L. (2002)
Facilities Maintenance, Remote
Campus

Cannon, Lori A. (2004)
Administrative Assistant
A.A., Gulf Coast Community College

Carter, Curtis J. (1986)
Producer/Specialized Programs
A.S., Gulf Coast Community College

Caruso, Carol P. (2001)
Switchboard Operator

Cassani, Tamara M. (2000)
Executive Administrative Assistant
A.A., Gulf Coast Community College

Cato, Linda B. (2003)
Senior Clerk Typist

Chan, Gerard D. (1992)
Inventory Manager

Chapman, Mandy (2008)
Test Administrator
B.S., University of West Florida

Chappelle, Geraldine (1999)
Administrative Assistant

Chisolm, Glenda (2006)
Lab Manager II
B.S., Troy University

Cline, Barbara (2007)
Senior Administrative Assistant

Cobb, Anthony J. (2008)
Senior Administrative Assistant

Collins, George J. (1989)
Custodian

Cook, Richard A. (1999)
Computer Operator

Costa, Don A. (1987)
Facilities Maintenance, Remote
Campus

Courtney, Janice E. (1990)
Postal Operations Assistant

Crawford, Wallace M. (1977)
Program Associate

Dallas, Whitney (2009)
Senior Administrative Assistant
A.A., Gulf Coast Community College

Darko, Michelle (2003)
Senior Administrative Assistant

DeLos Santos, Caty (1997)
Auxiliary Service Worker III

Dennis, Maureen (2006)
Groundskeeper

Devilbiss, James (1997)
Printer

Duhon, Daniel W. (2005)
Computer Technician

Edwards, Carla R. (2006)
Executive Administrative Assistant

Everett, Tyrone (2005)
Facilities Maintenance, Remote
Campus

Felice, Paul (2008)
Groundskeeper

Fralick, Robin B. (2004)
Computer Lab Technician

Freeman, Lonnie C. (1994)
Custodian

Fuller, Jr., John W. (2008)
Auxiliary Worker IV
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

Gillespie, Thomas L. (2002)
Custodian

Givens, Lee F. (2005)
Custodian

Good, Brenda L. (1994)
Bookkeeper

Gupton, Jamie M. (2008)
Operations Associate
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

Hashimoto, Nancy J. (2008)
Membership & Resource
Development Associate
A.B., University of Georgia
M.A., Webster University

Hendrix, Eileena K. (1990)
Sign Language Interpreter

Hesketh, Ann P. (Pat) (2000)
Senior Administrative Assistant

Hewitt, Kathryn L. (1996)
Senior Administrative Assistant

Hillard, Kara (2009)
Testing Assistant
A.A., Gulf Coast Community College

Hillard, Randal J. (1999)
Computer Maintenance Technician
B.S., S. Dakota State University
M.S., University of S. California

Hughes, Bobby E. (2000)
Senior Clerk Typist
A.S., Troy University
B.S., Troy University
M.S., Troy University

Hughes, Thomas M. (2005)
Media Services Assistant

Jenkins, Hilary A. (1996)
Maintenance Mechanic III
A.S., Gulf Coast Community College

Keesler, Pamela S. (1996)
Selections Center Assistant

Kelly, Elizabeth A. (2002)
Executive Administrative Assistant

Kight, Christina L. (1998)
Human Resources Assistant

Krampota, Tom J. (1992)
Custodian

Krutchek, Kimberly A. (2002)
Media Services Technician

Kuczenski, Jacqueline L. (1984)
Senior Administrative Assistant
A.A., Thornton Community College

LaCasse, Colette (1999)
Administrative Assistant

Lamberson, John M. (2000)
Administrative Assistant

Lee, Shae L. (2008)
Media Services Technician
B.A., University of West Florida

Lindman, Lisa I. (2001)
Executive Administrative Assistant
A.A., Gulf Coast Community College

Lloyd, Evelyne (2007)
Executive Administrative Assistant
A.S., European Secretarial Academy

Long, James R. (1985)
Maintenance Mechanic II

Long, Kelley R. (2001)
Intake Orientation Assistant

Long, Margaret A. (1990)
Administrative Assistant

McAfee, Nancy K. (2006)
Records & Credentialing Assistant

McClinton, Horace (1999)
Custodian

McCorvey, Michael (1976)
Custodian

McCullough, Larry (2008)
Custodian

McNear, Latoria O. (1998)
Custodian

Merritt, Robin A. (2003)
Senior Employment Representative
A.S., Gulf Coast Community College
A.A., Gulf Coast Community College
B.S., Florida State University

Mitchell, Marcia J. (2001)
Executive Administrative Assistant
A.A., Everett Community College

Morgan, Michael A. (2002)
Heating/Air Conditioning
Technician

Murphy, Dolores N. (1976)
Executive Administrative Assistant
B.F.A., University of Georgia

Newell, Donna (2008)
Senior Administrative Assistant

Packard, Linda G. (2002)
Custodian

Palmieri, Charles J. (2005)
Lead Network/Telecommunications
Technician

Peterson, Donna W. (2006)
Executive Administrative Assistant

Phillips, Janice L. (1974)
Senior Library Assistant

Pierson, Jennifer (2008)
Auxiliary Food Service Worker

Pittman, Edgar L. (1979)
Lead Groundskeeper

Poomarat, Somboon T. (2007)
Groundskeeper

Porter, Katrina (2007)
Financial Aid Assistant

Pringle, Debra L. (1999)
Receptionist
A.S., Enterprise State Jr. College

Ramsey, Rebecca L. (2008)
Financial Aid Assistant I
A.A., Quinsigamond Community
College

Renfroe, Sherri (2008)
Senior Administrative Assistant

Rice, Ronald W. (2001)
Maintenance Mechanic, Remote
Campus

Riley, Josephine (1997)
Custodian

Rissmann, Mark A. (1999)
Maintenance Mechanic I

Robertson, Katherine H. (1997)
Senior Administrative Assistant

Roldan, Helen M. (1995)
Senior Administrative Assistant
A.S., Gulf Coast Community College

Roper, Leah (2008)
Senior Library Assistant
A.A., Gulf Coast Community College
B.S., Clemson University

Sapp, Beverly A. (2002)
Senior Administrative Assistant
A.A., Gulf Coast Community College

Sheffield, Darren E. (2006)
Custodian

Sherfield, Christine (2007)
Custodian

Slendorn, Patricia E. (1991)
Auxiliary Service Worker I

Soderquist, Margaret A (1976)
Senior Bookkeeper, Cash
Management

Spencer, Scott T. (2003)
Senior Administrative Secretary

Stanley, Susan D. (2001)
Human Resources Assistant

Stephens, Willie J. (1977)
Custodian

Stichka, Vonda J. (2008)
Senior Administrative Assistant

Striplin, Roy B. (2000)
Maintenance Mechanic II

Takahashi, George H. (1994)
Maintenance Mechanic III

Terryn, Dorothy A. (Dottie) (1986)

Senior Bookkeeper, Accounts Payable
A.A., Gulf Coast Community College
B.S., Florida State University

Thomasson, Barbara (1994)

Senior Administrative Secretary

Todd, Earnest R. (2007)

Groundskeeper

Turner, Andrea J. (2009)

E-Learning Testing Assistant

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/Programmer
A.S., Gulf Coast Community College

Vaughn, Jackie A. (1994)

Administrative Assistant

Wall, Catherine J. (2007)

Senior Clerk Typist
Diploma of Faculty Education,
Calgary

Walker, Shirley A. (1998)

Custodian

Warren, Morrissa A. (2005)

Transcript Evaluation Specialist
A.A., Gulf Coast Community College

Washington, Brenda S. (1998)

Senior Purchasing Assistant/Buyer

Watson, Ronney L. (1982)

Grounds Supervisor

White, John A. (2001)

Producer/News Reporter

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, LaShavia D. (2005)

Administrative Assistant
A.A., Gulf Coast Community College

Winter, Pamela (2008)

Administrative Assistant

COURSE INDEX

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