

# BUSINESS, INDUSTRY, TECHNOLOGY, & MANUFACTURING PATHWAY





# Welcome to Gulf Coast and to the Business, Industry, Technology, and Manufacturing Pathway!

## Guided Pathways

Guided Pathways is a GCSC endeavor to provide students with an academic plan that guides students along a path to reach their academic and career goals. By grouping fields of study by similarities, students can explore options that reflect their interests, experience the best preparation for success, and efficiently pursue university transfer of their chosen field.

The six Pathways are identified as the following:

**Business, Industry, Technology, and Manufacturing**

**Health Sciences**

**Humanities, Arts, Design, and Communication**

**Public Safety**

**Science, Technology, Engineering, and Mathematics**

**Social, Behavioral Sciences, and Education**

**Pathway Navigators** provide initial academic advising and assist students in finding their way around GCSC. The Pathway Navigator is assigned to the broader Pathway and is knowledgeable about the general “area.”

**Faculty Advisors** work with students to provide more in-depth guidance about the students’ chosen program of study. Faculty Advisors are knowledgeable about the specific major or program of study, and work with students to enhance their university transfer or professional opportunities upon program completion.

Programs, majors, and degrees are organized within the Guided Pathways to help students explore their options. Milestone Courses, coursework within an academic program that provides critical skills development for student success in the academic program, are noted in each program with an asterisk(\*).

The Business, Industry, Technology, and Manufacturing Pathway is designed for students who are interested in pursuing advanced study that focuses on skills necessary for a variety of careers in multiple industries. Students will gain and develop skills such as problem-solving, specific operational skills, quantitative research skills, and technical skills that will position them to excel in their chosen industry.

**Disclaimer: Gulf Coast State College makes every reasonable effort to provide accurate information in the contents of this guide but reserves the right to make changes at any time without prior notice.**

**Curriculum in this guide is up to date as of April 1, 2023.**

## Business, Industry, Technology, and Manufacturing Pathway

The Business, Industry, Manufacturing, and Construction Pathway is designed for students who are interested in pursuing advanced study that focuses on skills necessary for a variety of careers in multiple industries. You will gain and develop skills such as problem-solving, specific operational skills, quantitative research skills, and technical skills that will position you to excel in your chosen industry.

The Pathway Navigators for Business, Industry, Technology, and Manufacturing are:

**Emma Leb** – office is on the second floor of the Student Union East – UNIVERSITY TRANSFER PROGRAMS

**Jordan Hale** – office is on the first floor of the Advanced Technology Center – NON-UNIVERSITY TRANSFER PROGRAMS

The following programs of study are included in the Business, Industry, Technology, and Manufacturing Pathway:

Accounting  
 Alternative Energy  
 Architecture  
 Business Administration  
 CNC Machinist  
 Composite Fabrication and Testing  
 Computer Engineering  
 Culinary Arts – Chef  
 Cybersecurity  
 Digital Media  
 Economics for Business  
 Engineering Technology/Building Construction  
 Entrepreneurship  
 Health Services Administration/Management  
 Hospitality and Tourism  
 Logistics and Transportation  
 Network Infrastructure/Security/Server Administration  
 Organizational Management  
 Rapid Prototyping  
 Recreation/Leisure Management  
 Software and Database Developer  
 Technology Management  
 Unmanned Vehicle Systems

Each program of study is detailed alphabetically in the following pages. Programs of study also indicate the type of degree the student can earn at Gulf Coast State College.

**Associate in Arts Degree (AA)** – University Transfer Degree – Designed as a “transfer track” using the Florida Department of Education Common Prerequisite Manual. All A.A. students entering a Florida College system institution in Fall 2021 and thereafter, are required to meet civic literacy requirements by passing either AMH2020 or POS2041 and

passing the Florida Civic Literacy Examination (FCLE). Students may also demonstrate competency through completion of AP Government and Politics: United States, AP United States History, or CLEP: American Government examination. AICE: U.S. History (1840 – 1990) meets the civic literacy course requirement only. Students receiving course credit for this exam will be required to pass the FCLE. High school students who take the U.S. Government course and pass the FCLE will have met the postsecondary civic literacy assessment requirement. Students who have previously achieved a passing score on an approved assessment or passed an approved course will have met the assessment requirement or coursework requirement, respectively, and will not be required to re-take the assessments or courses.

**Associate in Science Degree (AS)** – Workforce Degree – Designed to prepare students for immediate employment - does not transfer to the University as a whole. All A.S. students entering a Florida College System institution in Fall 2022 and thereafter, are required to meet civic literacy requirements by passing either AMH2020 or POS2041 and passing the Florida Civic Literacy Examination (FCLE). Students may also demonstrate competency through completion of AP Government and Politics: United States, AP United States History, or CLEP: American Government examination. AICE: U.S. History (1840 – 1990) meets the civic literacy course requirement only. Students receiving course credit for this exam will be required to pass the FCLE. High school students who take the U.S. Government course and pass the FCLE will have met the postsecondary civic literacy assessment requirement. Students who have previously achieved a passing score on an approved assessment or passed an approved course will have met the assessment requirement or coursework requirement, respectively, and will not be required to re-take the assessments or courses.

**Baccalaureate Degree (BAS or BSN)** – Also known as a Bachelor’s Degree – Students must have an earned AA or AS Degree with specific prerequisites to apply for a Baccalaureate Degree.

**Workforce Certificate (CCC or VC)** – A short-term credential designed for immediate employment in a specific field.

**Estimated annual salary range for program graduates is \$33,000 - \$125,000.**

## Accounting Option, Liberal Arts AA (ACCT-AA)

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

**Faculty Advisor:** Tracy Sewell

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
STA2023	Statistics	3
MAC2233	Calculus for Business	3
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
ECO2013	Principles of Economics, Macro	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 18 credit hours</b>		
CGS1570	Microcomputer Applications	3
ACG2001*	Financial Accounting I	3
ACG2011*	Financial Accounting II	3
ACG2071	Managerial Accounting	3
ECO2023	Principles of Economics, Micro	3
CGS2518	Spreadsheets for Business Environments	3
<b>Electives – 6 credit hours</b>		
	Transferrable Elective Hours	6
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

#### \*Milestone Courses

**NOTE: MAC1105, College Algebra is a prerequisite for MAC2233, Calculus for Business and provides a basis for logic and reasoning for the field of Accounting.**

## Accounting Technology (ACT1-AS)

**AREA OF CONCENTRATION:** The purpose of this program is to prepare students for immediate employment in the field of accounting. Students who graduate from this program would typically work as bookkeepers or accounting technicians.

**Faculty Advisor:** Tracy Sewell

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours – choose one area</b>		
	Visual and Performing Arts Philosophy/Religion Literature	3
<b>Mathematics Area – 3 credit hours</b>		
	Choose one college-level mathematics course	3
<b>Natural Science Area – 3 credit hours</b>		
	Biology or Physical Science	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041	American National Government	3
<b>Major Courses</b>		
CGS1570*	Microcomputer Applications	3
ACG2001*	Financial Accounting I	3
ACG2011*	Financial Accounting II	3
ACG2071	Managerial Accounting	3
ECO2023	Principles of Economics, Micro	3
ECO2013	Principles of Economics, Macro	3
CGS2518	Spreadsheets for Business Environments	3
MNA1100	Human Relations in Management	3
BUL2241	Business Law	3
MAN2021	Principles of Management	3
MAN2160	Foundations of Leadership	3
FIN1100	Personal Finance	3
ACG2450	Basic Computer Augmented Accounting	3
TAX1000	Principles of Taxation I	3
ACG2930	Special Topics in Accounting	3
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

**\*Milestone Courses**

## Accounting Applications Certificate (ACTC-CT)

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

**Faculty Advisor:** Tracy Sewell

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
CGS1570*	Microcomputer Applications	3
ACG2001*	Financial Accounting I	3
ACG2011*	Financial Accounting II	3
ACG2071	Managerial Accounting	3
CGS2518	Spreadsheets for Business Environments	3
MNA1100	Human Relations in Management	3
ACG2450	Basic Computer Augmented Accounting	3
TAX1000	Principles of Taxation I	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>27</b>

**\*Milestone Courses**

## Alternative Energy Systems Specialist College Credit Certificate (AESS-CCC)

**AREA OF CONCENTRATION:** This certification will prepare students to meet the industry-specific skills needed for technicians in the new and emerging alternative and renewable energy fields, including occupational titles such as electrical technician, industrial engineering technician, solar photovoltaic installer and solar power plant technician, solar thermal installer and technician, energy auditor and smart grid technician. This program also provides supplemental training for persons previously or currently employed in occupations related to energy production, distribution, and storage.

**Faculty Advisors:** Antonio Adessi

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
ETP1051	Introduction to Energy, Environment, and Society	3
ETP1500*	Alternative Energy Inventory & Analysis	3
ETP1500L*	Alternative Energy Inventory & Analysis Lab	3
ETP2322	Distributed Electrical Power Generation & Storage	3
<b>Choose two of the following:</b>		
ETP1410C	Solar Energy	3
ETP1520	Geothermal Energy	3
ETP1510	Biofuels & Biomass	3
ETP1550	Alternative Fuels & Electric Vehicles	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>18</b>

**\*Milestone Courses**

## Architecture Option, Liberal Arts (ARCH-AA)

**AREA OF CONCENTRATION:** This university transfer track is designed to prepare students for entry into the Bachelor of Science in Architectural Studies degree program. GCSC has an Articulation Agreement with Florida A&M University (FAMU); the University of Florida and University of South Florida have similar programs.

**Faculty Advisor:** Antonio Adessi

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
ARH2060	History of Architecture	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
	Choose one college-level mathematics course	3
MAC2311*	Calculus I or MAC2233, Calculus for Business	3
<b>Natural Sciences Area – 6 credit hours</b>		
PHY2053*	College Physics	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
	Behavioral Science	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 18 credit hours</b>		
PHY2053L	College Physics Lab	1
ARC1301C*	Design 1.1	4
ARC1302C	Design 1.2	4
ARC2303C	Design 2.1	4
ARC2304C	Design 2.2	4
ARC2180	Introduction to Digital Architecture	3
<b>Electives – 4 credit hours</b>		
	Transferrable Elective Hours	4
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

Recommended electives:

BCN2405, Statics and Strength of Materials, 3 crs.

BCN1230, Materials and Methods, 3 crs.

### \*Milestone Courses



## Architectural Design and Construction Technology (ADCT-AS)

**AREA OF CONCENTRATION:** This program will prepare students for employment as construction planners or provide supplemental training for persons previously or currently employed in these occupations.

**Faculty Advisor:** Antonio Adessi

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 3 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
ARH2000	Understanding Art	3
<b>Mathematics Area – 3 credit hours</b>		
MAC1105	College Algebra	3
<b>Natural Sciences Area – 3 credit hours</b>		
	Physical or Biological Science	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3
<b>Major Courses – 18 credit hours</b>		
EGN1110C*	Engineering Drawing	3
ETD1320C	Introduction to CAD	3
BCN1230	Materials and Methods	3
ARC2180	Introduction to Digital Architecture	3
ARC1301C*	Design 1.1	4
ARC1302C	Design 1.2	4
BCN2405	Statics and Strength of Materials	3
ARC2312C	Introduction to Building Assembly Modeling	4
BCT2715	Construction Management	3
BCT2770	Construction Estimating	3
GIS2040	Introduction to Geographic Information Systems	3
TAR2122	Residential Architectural Design	1
TAR2122L	Residential Design Lab	3
TAR2154	Commercial Architectural Design	1
TAR2154L	Commercial Design Lab	3
CGN2328	Technical Drawing & Visualization	3
ARH2060	History of Architecture	3
COOP	ARC2949 or BCN2949	1
<b>TOTAL DEGREE HOURS</b>		<b>66</b>

\*Milestone Courses

## Business Administration Option, Liberal Arts (BUS-AA)

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

**Faculty Advisors:** Kim Allan, Matt Herndon, Tracy Sewell

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
STA2023	Statistics	3
MAC2233	Calculus for Business	3
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
ECO2013	Macro Economics (Behavioral Science)	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 18 credit hours</b>		
CGS1570	Microcomputer Applications	3
ACG2001*	Financial Accounting I	3
ACG2011*	Financial Accounting II	3
ACG2071	Managerial Accounting	3
ECO2023	Micro Economics	3
<b>Electives – 9 credit hours</b>		
	Transferrable Elective Hours	9
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

Recommended elective:

MAN2160, Foundations of Leadership, 3 crs.

### \*Milestone Courses

## Business Administration and Management (BUS2-AS)

**AREA OF CONCENTRATION:** The purpose of this program is to prepare students for immediate employment in the field of business administration and management by providing training for both first-time job seekers and experienced employees who wish to advance their careers.

**Faculty Advisors:** Kim Allan, Matt Herndon, Tracy Sewell

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 3 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
	Visual and Performing Arts OR Philosophy/Religion OR Literature	3
<b>Mathematics Area – 3 credit hours</b>		
STA2023*	Statistics	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3
<b>Major Courses – 30 credit hours</b>		
CGS1570	Microcomputer Applications	3
MNA1100	Human Relations in Management	3
ACG2001*	Financial Accounting I	3
ACG2011*	Financial Accounting II	3
ECO2023	Economics, Micro	3
BUL2241	Business Law	3
MAN2021	Principles of Management	3
MAR2011	Marketing	3
MAN2500	Operations Management	3
MAN2160	Foundations of Leadership	3
<b>Pick any 4 courses from the list below:</b>		
FIN1100	Personal Finance	3
ACG2071	Managerial Accounting	3
CGS2518	Spreadsheets for Business Environments	3
DIG2XXX	Digital Marketing	3
DIG2100	Web Design I	3
TRA2010	Transportation and Distribution	3
TRA2131	Purchasing and Inventory Management	3
TRA2154	Introduction to Supply Chain Management	3
TRA2230	Warehouse Management	3
ENT2000	Introduction to Entrepreneurship	3
ENT2112	Business Plans	3

ENG2430	Funding Acquisition and Legal Issues	3
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

### \*Milestone Courses

## Business Specialist College Credit Certificate (BUSP-CCC)

**AREA OF CONCENTRATION:** The purpose of this program is to prepare students for an entry level position in a business setting. Students will gain technical knowledge and skills to prepare for further education and careers in the Business Administration and Management career cluster.

**Faculty Advisors:** Kim Allan, Matt Herndon, Tracy Sewell

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
CGS1570	Microcomputer Applications	3
ACG2001*	Financial Accounting I	3
MNA1100	Human Relations in Management	3
MAN2021	Principles of Management	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>12</b>

### \*Milestone Courses

## CNC Machinist College Credit Certificate (CNC-CCC)

**AREA OF CONCENTRATION:** The CNC Machinist Certificate reflects the culmination of those learned skills and proficiencies that allow a student to set-up and operate CNC machinery and turning centers at the entry level. The core courses provide training on a MAAS Mill, a Haas Lathe, and on machine shop operations. Completing the requirements for this certificate to get a head start in the field as a CNC machinist. There are many employment opportunities in the local and regional area in this field of study.

**Faculty Advisors:** Antonio Adessi

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
ETD1320C	Introduction to CAD	3
ETD2382C*	Intermediate CAD/CAE/CAM	3
PMT2250C	CNC Programming I	3
PMT2254C	CNC Programming II	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>12</b>

\*Milestone Courses

## Composite Fabrication and Testing College Credit Certificate (CFT-CCC)

**AREA OF CONCENTRATION:** In this certificate program students will develop an understanding of applied mathematics, semi-precision and precision measurement, safety, blueprint reading, materials and processes, fabrication and assembly knowledge, and skills related to advanced composites such as safety, matrices, fiber, basic design, layup methods, core materials, tooling and bonding, and fastening.

**Faculty Advisors:** Antonio Adessi

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
ETI1701	Industrial Safety	3
ETI2110	Introduction to Quality Assurance	3
ETI1420*	Manufacturing Processes	3
ETI2001C*	Applied Mechanics	3
ETI2460C	Composites Fundamentals	3
ETI2464C	Advanced Composites	3
ETI1949	Manufacturing Internship	1
<b>TOTAL CERTIFICATE HOURS</b>		<b>19</b>

\*Milestone Courses

## Computer Science Option, Liberal Arts (CMPM-AA)

**AREA OF CONCENTRATION:** The purpose of this university 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, or teaching in a high school, college, or university.

**Faculty Advisor:** Tonitta Sauls

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
MAC2311*	Calculus with Analytical Geometry I	3
MAC2312*	Calculus with Analytical Geometry II	3
<b>Natural Sciences Area – 6 credit hours</b>		
PHY2048*	University Physics I	4
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
	Behavioral Science	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 18 credit hours</b>		
PHY2048L	University Physics I Lab	1
PHY2049	University Physics II	4
PHY2049L	University Physics II Lab	1
COP1000*	Introduction to Programming Logic	3
COP2224 Or COP2250	Introduction to C++ Or Java Programming	3
<b>Electives – 9 credit hours</b>		
	Transferrable Elective Hours	9
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Computer Engineering Option, Liberal Arts (CSSE-AA)

**AREA OF CONCENTRATION:** A baccalaureate degree in this field afford students the opportunity to secure employment in an industrial or financial field, a government agency, or teaching in a high school, college, or university. This university transfer track is designed to meet FSU-Panama City program requirements.

**Faculty Advisor:** Tonitta Sauls

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
MAC2311*	Calculus with Analytical Geometry I	3
MAC2312*	Calculus with Analytical Geometry II	3
<b>Natural Sciences Area – 6 credit hours</b>		
PHY2048*	University Physics I	4
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
	Behavioral Science	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 18 credit hours</b>		
PHY2048L	University Physics I Lab	1
PHY2049	University Physics II	4
PHY2049L	University Physics II Lab	1
COP1000*	Introduction to Programming Logic	3
COP2250 Or COP2224	Intro to Java Programming Or Intro to C++	3
STA2023	Statistics	3
MAC2313 Or MAP2302	Calculus III Or Differential Equations	4 Or 3
<b>Electives – 2-3 credit hours</b>		
	Transferrable Elective Hours	2-3
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Culinary Management (CLNY-AS)

### \*Milestone Courses

**AREA OF CONCENTRATION:** This program seeks candidates who are individually motivated and committed to a career in the food service profession. This program is accredited by the American Culinary Federation Education Foundation Accrediting Commission (ACFEFAC).

**Retention Requirements:** A 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.

**Faculty Advisors:** Paul Ashman, Denise Crider

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
	Visual & Performing Arts	3
<b>Mathematics Area – 3 credit hours</b>		
	College-Level Mathematics	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3
<b>Natural Sciences Area – 3 credit hours</b>		
	Biology or Physical Science	3
<b>Major Courses – 18 credit hours</b>		
FOS2201*	Food Services Sanitation & Safety	2
FSS1202C*	Basic Food Preparation	4
FSS1063C*	Food Specialties – Baking	3
HFT1000	Intro to Hotel-Restaurant Mgmt	3
HFT2840C	Dining Room Operations	3
FSS2224L	Advanced Food Preparation	3
FSS1105	Food Purchasing	3
FSS2380	Practicum I – Restaurant	3
FSS2381	Practicum II – Kitchen	3
FSS1942	Culinary & Hospitality Externship	1
HUN1001	Survey of Nutrition	2
FSS1248L	Food Specialties – Garde Manager I	3
FSS2240L	Food Specialties – World Cuisines	3
HFT2264C	Banquet and Convention Management	3
FSS2065L	Food Specialties – Pastry	3
HFT2867C	Wine Essentials	3
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

## Culinary Arts (CLNA-CCC)

**AREA OF CONCENTRATION:** This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Hospitality and Tourism career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, occupation-specific skills, and knowledge of all aspects of the Hospitality and Tourism career cluster. This program prepares students for employment in commercial and institutional positions such as bakers, pantry cooks, prep cooks, and lead cooks in the culinary industry and/or provides supplemental training for persons previously or currently employed in these occupations.

**Faculty Advisors:** Paul Ashman, Denise Crider

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
FOS2201*	Food Service Sanitation & Safety	2
HUN1001	Survey of Nutrition	2
FSS1202C*	Basic Food Preparation	4
FSS1063C	Food Specialties – Baking	3
HFT1000	Introduction to Hotel-Restaurant Management	3
FSS2065L	Food Specialties – Pastry	3
FSS1105	Food Purchasing	3
FSS2380	Practicum I – Restaurant	3
FSS2381	Practicum II – Kitchen	3
FSS1248L	Food Specialties – Garde Manager I	3
FSS2240L	Food Specialties – World Cuisines	3
HFT2264C	Banquet & Convention Management	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>35</b>

### \*Milestone Courses

## Chef's Apprentice (CAPP-CCC)

**AREA OF CONCENTRATION:** This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Hospitality and Tourism career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Hospitality and Tourism career cluster. The content includes but is not limited to sanitation and safety; maintenance and operation of equipment; recognition and identification of foods; proper storage of foods; methods of preparation; usage of foods; methods of cooking; communication skills; math skills' computer applications; professionalism; culinary organization; and food and beverage purchasing.

**Faculty Advisors:** Paul Ashman, Denise Crider

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
FOS2201*	Food Service Sanitation & Safety	2
FSS1202C*	Basic Food Preparation	4
FSS1063C	Food Specialties – Baking	3
FSS2240L	Food Specialties – Cuisines of the World	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>12</b>

### \*Milestone Courses

## Cybersecurity (CYSE-AS)

**AREA OF CONCENTRATION:** Cybersecurity professionals create and implement tactics to secure computer networks and systems. Cybersecurity professionals are in high demand as the growing number of cyber-attacks continually increase. Our Cybersecurity-AS degree features a rigorous, hands-on curriculum taught by experienced industry professionals. In our courses, you will learn how to secure devices, data, and networks. Graduates of the Cybersecurity-AS program are prepared to assist in all areas of cyber defense. Additionally, successful completion of this program prepares you to take highly sought-after industry certifications

**Faculty Advisors:** David Lee

CTS1131	A+ Hardware	3
CTS1133	Desktop Operating Systems (A+ Software)	3
CTS1392	Configuring Advanced Windows Server	3
CNT1510	Wireless Networking	3
CTS2940	Cybersecurity Capstone	3
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

### \*Milestone Courses

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 3 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
	Visual and Performing Arts Or Philosophy/Religion OR Literature	3
<b>Mathematics Area – 3 credit hours</b>		
MAC1105	College Algebra	3
<b>Natural Sciences Area – 3 credit hours</b>		
	Biology or Physical Science	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3
<b>Major Courses – 45 credit hours</b>		
CTS1111*	Linux+	3
CTS1120*	Security+	3
CTS1650*	Network Fundamentals	3
CGS1103	Project Management Concepts and Processes	3
COP1000	Introduction to Programming Logic	3
COP2700	Data Structure (SQL)	3
CIS2352	Ethical Hacking I	3
CIS2381	Computer Forensics and Incident Response	3
CTS2315	Intrusion Detection and Firewalls	3
CTS1651	Cisco Router Technology/Router Protocols and Concepts	3



## Digital Media, Bachelor of Applied Science (DIMA-BAS/DIGM-BAS)

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

**Faculty Advisor:** Erika Goines

### BAS Total Degree Credit Hours – 120 crs.

- General Education – 36 crs.
- Credits from AS/AA – 42 crs.
- Upper Division – 42 crs.

### General Education Requirements

-The General Education Requirements are outlined in the appendix of this publication. All students must have a total of 36 credits of General Education courses for the BAS degree. Most students entering the program will need an additional 21 General Education credits. The specific courses needed will vary among students. Please contact the advisor for assistance.

## Digital Production Specialization Curriculum (DMA2)

### BAS Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual & Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
	College-level mathematics	6
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		

	Behavioral Science	3
	History	3
	Government	3
<b>AA or AS Technical Requirements – 39 credit hours</b>		
CGS1103	Project Management Concept & Processes	3
CGS2069	Social Media Marketing	3
DIG2100	Web Design I	3
DIG2251	Sound for Digital Media	3
DIG2200*	Digital Video Fundamentals	3
DIG2151	Writing for Media	3
DIG2430	Digital Story Development	3
GRA2156*	Graphic Design I	3
	Electives	15
<b>Digital Media Foundation/Core Courses – 27 credit hours</b>		
GEB3213	Business Communications for Professional Effectiveness	3
CGS3092	Legal and Ethical Issues	3
ISM4318*	Agile Project Management	3
DIG3543	Media Planning	3
DIG4433*	Visual Development	3
DIG4153*	Writing for Digital Media	3
DIG4562	Content Management Systems	3
DIG3588	Digital Capstone	3
DIG3811	User-Centered Design	3
<b>Digital Production Specialization – 15 credit hours</b>		
DIG3525*	Digital Production Studio I	3
DIG3526	Digital Production Studio II	3
DIG3553	Interactive Media Design	3
DIG3343	Broadcast Graphics I	3
DIG3451	Visual Storytelling	3
<b>TOTAL DEGREE HOURS</b>		<b>120</b>

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

### \*Milestone Courses

## Web Development Specialization Curriculum (DMA1)

DIG3716	Interface Design	3
<b>TOTAL DEGREE HOURS</b>		<b>120</b>

### BAS Curriculum Detail

### \*Milestone Courses

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual & Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
	College-level mathematics	6
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
	Behavioral Science	3
	History	3
	Government	3
<b>AA or AS Technical Requirements – 39 credit hours</b>		
CGS1103	Project Management Concept & Processes	3
CGS2069	Social Media Marketing	3
COP1000*	Intro to Programming Logic	3
COP2700*	Data Structures (SQL)	3
COP2840	Internet Programming	3
DIG2100*	Web Design I	3
DIG2151	Writing for Media	3
GRA2156	Graphics Design I	3
	Electives	15
<b>Digital Media Foundation/Core Courses – 27 credit hours</b>		
GEB3213	Business Communications for Professional Effectiveness	3
CGS3092	Legal and Ethical Issues	3
ISM4318	Agile Project Management	3
DIG3543	Media Planning	3
DIG4433*	Visual Development	3
DIG4153	Writing for Digital Media	3
DIG4562*	Content Management Systems	3
DIG3588	Digital Capstone	3
DIG3811	User-Centered Design	3
<b>Web Development Specialization – 15 credit hours</b>		
COP3824	Developing Websites using PHP w/MySQL	3
COP3855*	Adv. Web Animation (JQUERY)	3
ISM4548	Web Analytics	3
DIG4511	Digital Optimization and Analytics	3

## Digital Media/Multimedia Technology (DIG2-AS)

**AREA OF CONCENTRATION:** The purpose of this program is to prepare students for initial employment as a digital media/multimedia programmer, digital media/multimedia project manager, web designer, web developer, web production artist, digital audio/video technician, digital media/multimedia producer, graphic animator, instructional designer, or interface designer, or to provide supplemental training for persons previously or currently employed in these or related occupations. Graduates of this program could potentially obtain positions as graphic artist technicians, animation/gaming/simulation technicians/developers, digital video production technicians, or web design technicians.

**Faculty Advisor:** Erika Goines

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 3 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
	Visual and Performing Arts Or Philosophy/Religion OR Literature	3
<b>Mathematics Area – 3 credit hours</b>		
	College-level mathematics	3
<b>Natural Sciences Area – 3 credit hours</b>		
	Physical Science Or Biological Science	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3
<b>Major Courses – 27 credit hours</b>		
DIG2430	Digital Story Development	3
DIG2151*	Writing for Media	
DIG2251*	Sound for Digital Media	3
DIG2200*	Digital Video Fundamentals	3
DIG1135	Digital Design Concepts	3
GRA2156*	Computer Graphics for Digital Designers I	3
DIG2100*	Web Design I	3
DIG2580	Digital Media Portfolio	3
CGS2069	Social Media Marketing	3
<b>Select an 18 credit hour specialization area below:</b>		
<b>Web Development Specialization Area</b>		
COP2701	Database Design & Management	3
CGS1570	Microcomputer Applications	3
COP1000*	Introduction to Programming Logic	3

GRA2157	Computer Graphics for Digital Designers II	3
COP2700*	Data Structure (SQL)	3
COP2840	Internet Programming	3
<b>Digital Production Specialization Area</b>		
DIG2205	Digital Post Production	3
DIG2822	Electronic Journalism	3
DIG2431*	Digital Storytelling	3
DIG2257	Radio Production Sound Recording	3
DIG2290	Studio Production and Direction	3
TPA1220 OR GRA2157	Introduction to State Lighting OR Computer Graphics for Digital Designers II	3
<b>Marketing &amp; Graphics Specialization Area</b>		
ART1201C	Design I	3
PGY2801C	Photography I	3
GRA2157*	Computer Graphics for Digital Designers II	3
GRA2151	Digital Illustration	3
MAR2011	Marketing	3
DIG2093*	Digital Marketing	3
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

### \*Milestone Courses

## 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 a graphic artist technician, animation/gaming/simulation technician, digital video production technician, or Web design technician. All courses in this program can be used in pursue of the college's Digital Media Associate of Science degree.

**Faculty Advisor:** Erika Goines

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
DIG2100*	Web Design I	3
GRA2156*	Computer Graphics for Digital Designers I	3
DIG2431*	Digital Storytelling	3
DIG2257	Radio Production Sound Recording	3
DIG2822	Electronic Journalism	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>15</b>

### \*Milestone Courses

## Digital Media/Multimedia Video Production College Credit Certificate (MVP-CCC)

**AREA OF CONCENTRATION:** The purpose of this program is to prepare students for initial employment as a videographer, video editor, or to provide supplemental training for persons previously or currently employed in these occupations. The content should include, but not be limited to design and generation of video and/or animations and the production of digital media/multimedia projects. This certificate program is part of the Digital Media/Multimedia Technology AS degree program. This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Arts A/V Technology and Communication career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Arts A/V Technology and Communication career cluster.

**Faculty Advisor:** Erika Goines

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
DIG2430	Digital Story Development	3
DIG2200*	Digital Video Fundamentals	3
DIG2290	Studio Production & Direction	3
DIG2205*	Digital Post Production	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>12</b>

### \*Milestone Courses

## Digital Media/Multimedia Web Production (WDP-CCC)

**AREA OF CONCENTRATION:** The purpose of this program is to prepare students for initial employment as web designers, web production assistants, web production artists, or to provides supplemental training for persons currently employed in the web design industry. The students will gain hands on experience in analysis of end-user needs, use of digital media/multimedia computer applications and the design and production of digital media/multimedia projects, including manipulation of video, animations, and audio. All courses in this program can be used in pursuit of the college's Associate of Science degree in Digital Media.

**Faculty Advisor:** Erika Goines

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
DIG2100*	Web Design I	3
COP2840	Internet Programming	3
GRA2156	Computer Graphics for Digital Designers I	3
COP2700*	Data Structure (SQL)	3
COP1000*	Introduction to Programming Logic	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>15</b>

### \*Milestone Courses

## Economics For Business Option, Liberal Arts (ECOB-AA)

**AREA OF CONCENTRATION:** The purpose of this university 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.

**Faculty Advisor:** Matt Herndon

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
STA2023	Statistics	3
MAC2233	Calculus for Business	3
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
ECO2013*	Macro Economics (Behavioral Science)	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 15 credit hours</b>		
CGS1570	Microcomputer Applications	3
ACG2001	Financial Accounting I	3
ACG2011	Financial Accounting II	3
ACG2071	Managerial Accounting	3
ECO2023*	Micro Economics	3
<b>Electives – 9 credit hours</b>		
	Transferrable Elective Hours	9
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Engineering Technology/Building Construction Option, Liberal Arts (BLCN-AA)

**AREA OF CONCENTRATION:** The Purpose of this university 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 West 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 Florida A&M University.

**Faculty Advisor:** Antonio Adessi

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
MAC1105	College Algebra	3
MAC1140*	Pre-Calculus Algebra	3
<b>Natural Sciences Area – 6 credit hours</b>		
PHY2053	College Physics I	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
ECO2013	Macro Economics	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 24 credit hours</b>		
STA2023*	Statistics	3
ACG2001	Financial Accounting I	3
BCN2405*	Statics & Strength of Materials	3
ECO2023	Economics, Micro	3
BUL2241	Business Law	3
CGS1570	Microcomputer Applications	3
PHY2054	College Physics II	3
MAC2311 OR MAC2233	Calculus I OR Calculus for Business	3
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Engineering Technology (ENGT-AS)

**AREA OF CONCENTRATION:** The purpose of the Engineering Technology AS program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industry. This degree is a planned sequence or instruction with one common core and three specializations: alternative energies, advanced manufacturing, and digital manufacturing. It is recommended that students complete the core before advancing to the courses in their specialization. Topics include communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.

The 18 credit hour technical core has also been aligned with the standards of the Manufacturing Skills Standards Council (MSSC). MSSC standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing the technical core and General Education requirements, students will be eligible to take the exam for MSSC Production Technician Certification. Graduates of the Engineering Technology Program may transfer to universities offering the BS degree in Engineering Technology.

**Faculty Advisor:** Max Sisson

### ALTERNATIVE ENERGY OPTION

The purpose of this track is to prepare students to meet industry-specific educational needs for technicians in new and emerging alternative and renewable energy fields, including, but not limited to, occupational titles such as Electrical Engineering Technician, Industrial Engineering Technician, Solar Photovoltaic Installer and Solar Power Plant Technician, Solar Thermal Installer and Technician, Energy Auditor, and Smart Grid Technician. This program also provides supplemental training for persons previously or currently employed in occupations related to energy production and storage, manufacturing and construction.

**Faculty Advisor:** Max Sisson

**Curriculum Detail**

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 3 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
	Visual and Performing Arts OR Philosophy/Religion OR Literature	3
<b>Mathematics Area – 3 credit hours</b>		
MAC1105*	College Algebra	3
<b>Natural Sciences Area – 3 credit hours</b>		
	Biology or Physical Science	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3
<b>Major Courses – 45 credit hours</b>		
EET1084C*	Introduction to Electronics	3
ETD1320C*	Introduction to CAD	3
ETI1701*	Industrial Safety	3
ETI2110	Introduction to Quality Assurance	3
ETI1420	Manufacturing Process	3
ETI2001C*	Applied Mechanics	3
ETP1501	Introduction to Energy, Environment, and Society	3
ETP1500	Alternative Energy Inventory & Analysis	3
ETP1500L	Alternative Energy Inventory & Analysis Lab	3
ETP2322	Distributed Electrical Power Storage	3
ETP1410C	Solar Energy	3
ETP1520	Geothermal Energy	3
ETP1510	Biofuels and Biomass	3
ETP1550	Alternative Energy Fuels & Electric Vehicles	3
EET2214C	LabVIEW Instrumentation	3
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

**\*Milestone Courses****ADVANCED MANUFACTURING OPTION**

This track specializes in automation, robotics, and process control with emphasis on computer-controlled systems for industrial manufacturing, system integration, instrumentation, simulation, and animatronics. The program skills used for careers in manufacturing, theme park

industries, military applications, water filtration and purification plants, and much more. Graduates are prepared to work as controls engineers, system integrators, robotic technicians, industrial programmers, process control engineers, field service technicians, simulation technicians, industrial sales engineers, and industrial maintenance technicians.

**Faculty Advisor:** Max Sisson

**Curriculum Detail**

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 3 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
	Visual and Performing Arts OR Philosophy/Religion OR Literature	3
<b>Mathematics Area – 3 credit hours</b>		
MAC1105	College Algebra	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3
<b>Natural Sciences Area – 3 credit hours</b>		
	Biology or Physical Science	3
<b>Major Courses – 45 credit hours</b>		
EET1084C*	Introduction to Electronics	3
ETD1320C*	Introduction to CAD	3
ETI1701	Industrial Safety	3
ETI2110	Introduction to Quality Assurance	3
ETI1420	Manufacturing Process	3
ETI2001C	Applied Mechanics	3
ETS2542C	Programmable Logic Controllers	3
ETS2535C	Process Control & Instrumentation	3
ETS2700C	Electro-Hydraulics & Pneumatics	3
ETS2606C	Robotics	3
ETS2511C	Motors & Motion Control	3
EET1140C	Electronic Devices & Circuits	3
CET1112C	Digital & Computer Circuits	3
EET1035C	AC/DC Circuits	3
ETS2931	Special Projects in Computer Integrated Manufacturing	2
ETI1949	Manufacturing Internship	1
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

**\*Milestone Courses**

**DIGITAL MANUFACTURING OPTION**

The purpose of this track is to prepare students for initial employment as Rapid Prototyping specialist, Digital Manufacturing specialist, industrial designer, product designer, architectural, civil, or mechanical drafter, technician, or detailers in various specialized areas of industry that use digital design and modeling and rapid prototyping, direct digital manufacturing and CNC machining technologies, or to provide supplemental training for persons previously or currently employed in these occupations.

**Faculty Advisor:** Max Sisson

**Curriculum Detail**

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 3 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
	Visual and Performing Arts OR Philosophy/Religion OR Literature	3
<b>Mathematics Area – 3 credit hours</b>		
MAC1105*	College Algebra	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3
<b>Natural Sciences Area – 3 credit hours</b>		
	Biology or Physical Science	3
<b>Major Courses – 45 credit hours</b>		
EET1084C*	Introduction to Electronics	3
ETD1320C*	Introduction to CAD	3
ETI1701*	Industrial Safety	3
ETI2110	Introduction to Quality Assurance	3
ETI1420	Manufacturing Process	3
ETI2001C*	Applied Mechanics	3
ETD2383C	Intermediate CAD/CAE/CAM	3
ETD2384C	Advanced CAD/CAE/CAM	3
PMT2250C	CNC Programming I	3
PMT2254C	CNC Programming II	3
ETI2460C	Composites Fundamentals	3
ETI2464C	Advanced Composites	3
ETD2371C	Introduction to 3D Printing	3
ETD2372C	Advanced Rapid Prototyping	3
ETS2931	Special Projects in Computer Integrated Manufacturing	2
ETI1949	Manufacturing Internship	1
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

**\*Milestone Courses**

**Engineering Technology Support Specialist  
College Credit Certificate (ETSS-CCC)**

**AREA OF CONCENTRATION:** This certificate prepares students for entry level technical jobs in high tech production, manufacturing, distribution and engineering research and development facilities. It is aligned with the Manufacturing Skill Standards Council (MSSC) Certified Production Technician (CPT) certification.

**Faculty Advisor:** Max Sisson

**Curriculum Detail**

Course Number	Course Name/Course Area	Credit Hours
EET1084C*	Introduction to Electronics	3
ETD1320C*	Introduction to CAD	3
ETI1701	Industrial Safety	3
ETI2110	Introduction to Quality Assurance	3
ETI1420	Manufacturing Process	3
ETI2001C	Applied Mechanics	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>18</b>

**\*Milestone Courses**



## Health Services Administration Option, Liberal Arts (HSA-AA)

**AREA OF CONCENTRATION:** 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. It is strongly recommended that students be familiar with the admissions requirements of the university they plan to attend and the particular requirements for their intended program.

**Faculty Advisors:** Kim Allan

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
STA2023	Statistics	3
MAC2233	Calculus for Business	3
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
	Behavioral Science	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 15 credit hours</b>		
CGS1570	Microcomputer Applications	3
ACG2001*	Financial Accounting I	3
ACG2011*	Financial Accounting II	3
ACG2071	Managerial Accounting	3
ECO2023	Principles of Economics, Micro	3
<b>Electives – 9 credit hours</b>		
	Transferrable Elective Hours	9
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Health Information Management Option, Liberal Arts (MEDR-AA)

**AREA OF CONCENTRATION:** This program is designed to prepare students for upper division studies in health information management at the state universities of FAMU, FIU, and UCF. It is strongly recommended that students be familiar with the admissions requirements of the university they plan to attend and the particular requirements for their intended program.

**Faculty Advisors:** Kim Allan

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
STA2023	Statistics	3
	Approved college-level math	3
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
BSC2085	Anatomy & Physiology I	3
<b>Social Sciences Area – 9 credit hours</b>		
	Behavioral Science	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 17 credit hours</b>		
CGS1570	Microcomputer Applications	3
ACG2001*	Financial Accounting I	3
ACG2011*	Financial Accounting II	3
ACG2071	Managerial Accounting	3
BSC2085L	Anatomy & Physiology I Lab	1
BSC2086	Anatomy & Physiology II	3
BSC2086L	Anatomy & Physiology II Lab	1
<b>Electives – 7 credit hours</b>		
	Transferrable Elective Hours	7
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Health Science, Liberal Arts AA (HS-AA)

**AREA OF CONCENTRATION:** The purpose of this university transfer track is 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.

**Faculty Advisors:** Kim Allan

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
STA2023*	Statistics	3
MAC1105	College Algebra	3
<b>Natural Sciences Area – 6 credit hours</b>		
CHM1045*	General Chemistry	3
	Biology	3
<b>Social Sciences Area – 9 credit hours</b>		
ECO2013	Principles of Economics, Macro	3
	History	3
POS2041	American National Government	3
<b>Transfer Common Prerequisites – 20 credit hours</b>		
ACG2001	Financial Accounting I	3
ACT2011	Financial Accounting II	3
ACG2071	Managerial Accounting	3
CGS1570	Microcomputer Applications	3
ECO2023	Principles of Economics, Micro	3
CHM1045L	General Chemistry Lab	1
PSY2012	Psychology	3
	Biology Lab	1
<b>Transferrable Electives – 4 credit hours</b>		<b>4</b>
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Hospitality and Tourism Management (TOUR-AS)

**AREA OF CONCENTRATION:** The purpose of this program is to prepare students for immediate employment in an entry level hospitality industry.

**Faculty Advisors:** Paul Ashman, Denise Crider

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 3 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
	Visual and Performing Arts OR Philosophy/Religion OR Literature	3
<b>Mathematics Area – 3 credit hours</b>		
	College-Level Mathematics	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3
<b>Natural Sciences Area – 3 credit hours</b>		
	Biology or Physical Science	3
<b>Major Courses – 45 credit hours</b>		
FOS2201	Sanitation & Safety	2
HUN1001	Survey of Nutrition	2
CGS1570	Microcomputer Applications	3
HFT1000*	Introduction to Hotel/Restaurant Management	3
ACG2001	Financial Accounting I	3
HFT1313	Hospitality Property Management	3
HFT2451	Cost Control & Purchasing	3
HFT1254	Lodging Operations	3
HFT1210*	Leadership & Managerial Development	3
HFT2750	Convention Service Management	3
ENT2000	Introduction to Entrepreneurship	3
HFT1600	Hospitality Law	3
HFT2867C	Wine Essentials	3
FSS1942	Culinary & Hospitality Externship	1
HFT1860	Beverage Management	3
HFT2949	Hospitality COOP	3
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Logistics and Transportation Specialist (LTSL-CCC)

**AREA OF CONCENTRATION:** The purpose of this program is to prepare students for immediate employment in the field of transportation, distribution, and logistics. Students pursuing this certificate will be offered the knowledge and experiences to prepare them for the integration of business processes involved in the planning, acquisition, flow, and distribution of regional, national, and global goods and services. Emphasis is placed on the development of business and managerial skills necessary for efficient and effective performance of all operations within an organization's supply chain.

Faculty Advisor: Matt Herndon

Course Number	Course Name/Course Area	Credit Hours
BUL2241	Business Law	3
MAN2500	Operations Management	3
TRA2010	Transportation & Distribution	3
TRA2131	Purchasing & Inventory Management	3
TRA2154	Introduction to Supply Chain Management	3
TRA2230	Warehouse Management	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>18</b>

## Network Systems Technology (CYBR-AS)

**AREA OF CONCENTRATION:** The Associate of Science degree in Network Systems Technology prepares graduates for career in the Information Technology Career Cluster, including, but not limited to, systems/network/security managers, administrators, technicians, and specialists; ethical hackers/penetration testers/technicians, and customer/technical support personnel.

This program maps courses to industry recognized certification pathways including those offered by CompTIA, Cisco, EC-Council, EMC, VMware, and Microsoft.

Students complete 15 general education and 36 major course hours along with 9 credit hours from one of four concentrations – network administration, or Degree-seeking students also complete one or more college credit certificates as part of their program.

College Credit Certificate embedded in this specialization NES-CCC, Network Server Administration.

**Faculty Advisor:** David Lee

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 3 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
	Visual and Performing Arts OR Philosophy/Religion OR Literature	3
<b>Mathematics Area – 3 credit hours</b>		
MAC1105	College Algebra	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3
<b>Natural Sciences Area – 3 credit hours</b>		
	Biology or Physical Science	3
<b>Major Courses – 36 credit hours</b>		
CTS1111*	Linux+	3
CTS1120*	Security+	3
CTS1131	A+ Hardware	3
CTS1133	Desktop Operating Systems (A+ Software)	3
CTS1650*	Network Fundamentals	3
CTS1651	Cisco Router Technology/Router Protocols and Concepts	3
CTS2652	Advanced Router Technology (CISCO/CCNA)	3

CTS2653	CISCO Project-Based Learning/Assessing the WAN	3
CTS1390	Installing & Configuring Windows Server	3
CNT1510	Wireless Networking	3
CTS1154	Technical Support	3
CGS1103	Project Management Concepts and Processes	3
COP1000	Introduction to Programming Logic	3
CTS2370	Virtual Infrastructure: Installation & Configuration	3
CTS2941	Network Technology Services Capstone	3
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

### \*Milestone Courses

## Network Server Administration College Credit Certificate (NES-CCC)

**AREA OF CONCENTRATION:** The Network Server Administration certificate prepares students for careers in the Information Technology Career Cluster as network support technicians/administrators.

**Faculty Advisor:** David Lee

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
CTS1111*	Linux+	3
CTS1650*	Network Fundamentals	3
CTS1390	Installing & Configuring Windows Server	3
CTS1131	A+ Hardware	3
CTS1133	Desktop Operating Systems (A+ Software)	3
CNT1510	Wireless Networking	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>18</b>

### \*Milestone Courses

## Organizational Management, Bachelor of Applied Science (ORGA-BAS/ORGM-BAS)

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

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

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

### Admission Requirements:

1. Completion of Application for General Admission to GCSC
2. Submission of all official transcripts by established deadline
3. Submission of official transcripts from college(s) currently or previously attended. Transcripts must indicate completion of an AS or AA degree of at least sixty (60) credit hours from a regionally accredited institution.
4. Completion of a minimum of fifteen (15) credit hours of transferrable general education coursework
5. Documentation of a Grade Point Average (GPA) of 2.00 or

- higher in all postsecondary coursework
6. Completion of the standard Florida foreign language requirement. If at the time of admission the student has not completed two (2) consecutive years of the same foreign language in high school or eight (8) credit hours in college, the student must complete eight (8) credit hours prior to completing the program.
7. Completion of the program's entrance form

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

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

### BAS Total Degree Credit Hours – 120 crs.

- General Education – 36 crs.
- Credit from AS/AA Degree – 42 crs.
- Upper Division – 42 crs.

### General Education Requirements

The General Education Requirements are outlined in the appendix of this publication. All students must have a total of 36 credit hours of General Education courses for the BAS degree. Most students entering the program will need an additional 21 General Education credit hours. The specific courses will vary among students. Please contact the BAS advisor for assistance.

**Program Coordinator:** Cara Pattinato

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual & Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
	College-level mathematics (3 credit hours in either MAC1105 or STA2023)	6
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3

<b>Social Sciences Area – 9 credit hours</b>		
	Behavioral Science	3
	History	3
	Government	3
<b>Organizational Management Core Course – 24 credit hours</b>		
BUL3310	Legal Environments of Business (FSU; offered Fall, Spring)	3
GEB3213	Business Communication for Professional Effectiveness	3
FIN3400	Financial Management	3
MAN3240*	Applied Organizational Behavior	3
MAN3303*	Principles of Management & Leadership	3
MAN3504*	Management Risk Analysis & Decision-Making	3
MAN4143	Contemporary Leadership Challenges (FSU; offered Spring)	3
MAN4520	Quality Management (Six Sigma)	3
<b>Choose One: Specialization Areas – 18 credit hours</b>		
<b>Specialization in Corporate Entrepreneurship (OR1)</b>		
FIN4470	Entrepreneurial Finance	3
ENT3003	Principles of Corporate Entrepreneurship	3
MAR4413	Entrepreneurial Selling	3
MAN4301	Human Resource Management	3
MAR3802	Entrepreneurial Marketing	3
MAN4900	Capstone	3
<b>Specialization in Health Services Administration (OR3)</b>		
HSA3553	Legal Issues in Healthcare	3
HSA3113	Current Trends/Contemporary Issues in Healthcare	3
HSA3700	Foundations of Research in Healthcare	3
HSA4110	Healthcare Organization & Management	3
HSA4160	Strategic Planning & Marketing for Healthcare	3
HSA4830	Capstone	3
<b>TOTAL DEGREE HOURS</b>		<b>120</b>

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

#### \*Milestone Courses

## Entrepreneurship College Credit Certificate (ENTC-CCC)

**AREA OF CONCENTRATION:** The purpose of this program is to teach students the fundamentals of starting and operating a business venture while presenting entrepreneurship as a viable career option. Coursework covers opportunity recognition, business planning, cash flow and financial management, market research, e-commerce and how to understand and work with an accounting system.

Program Coordinator: Cara Pattinato

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
ENT2000	Introduction to Entrepreneurship	3
ENT2430	Funding Acquisition & Legal Issues	3
ENT2112	Business Plans	3
MAR2011	Marketing	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>12</b>

## Rapid Prototyping Specialist College Credit Certificate (RAPD-CCC)

**AREA OF CONCENTRATION:** This certificate prepares students for initial employment with an occupational title as rapid prototyping, digital manufacturing specialist, industrial designers, product designers, or mechanical drafters, technicians, or detailers in various specialized areas of industry that use digital design and modeling and rapid prototyping, direct digital manufacturing or to provide supplemental training for persons previously or currently employed in these occupations.

Faculty Advisors: Max Sisson

Course Number	Course Name/Course Area	Credit Hours
ETD1320C	Introduction to CAD	3
ETD2383C	Intermediate CAD/CAE/CAM	3
ETD2371C	Introduction to 3D Printing	3
ETD2372C	Advanced Rapid Prototyping	3
<b>TOTAL CERTIFICATE HOURS</b>		<b>12</b>

## Composite Fabrication and Testing College Credit Certificate (CFT-CCC)

**AREA OF CONCENTRATION:** In this certificate program students will develop an understanding of applied mathematics, semi-precision and precision measurement, safety, blueprint reading, materials and processes, fabrication and assembly knowledge, and skills related to advanced composites such as safety, matrices, fiber, basic design, layup methods, core materials, tooling and bonding, and fastening.

Faculty Advisor: Max Sisson

Course Number	Course Name/Course Area	Credit Hours
ET11701*	Industrial Safety	3
ET12110*	Introduction to Quality Assurance	3
ET11420	Manufacturing Processes	3
ET12001C	Applied Mechanics	3
ET12460C	Composites Fundamentals	3
ET12464C	Advanced Composites	3
ET11949	Manufacturing Internship	1
<b>TOTAL CERTIFICATE HOURS</b>		<b>19</b>

\*Milestone Courses



## Recreation Option/Leisure Services Management, Liberal Arts (RECR-AA)

**AREA OF CONCENTRATION:** The purpose of this university transfer track is to prepare students for a career in leisure services management. 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.

**Faculty Advisors:** Kim Allan, Matt Herndon

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
	College-level mathematics	6
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
ECO2013	Principles of Economics, Macro	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 18 credit hours</b>		
CGS1570	Microcomputer Applications	3
DEP2004	Developmental Psychology	3
MAN2021*	Principles of Management	3
MAR2011*	Marketing	3
SPC1608	Introduction to Public Speaking	3
<b>Electives – 9 credit hours</b>		
	Transferrable Elective Hours	9
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Recreation Option/Natural Resources, Liberal Arts (REC1-AA)

**AREA OF CONCENTRATION:** The purpose of this university transfer track is to prepare students for a career in leisure services management. 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.

**Faculty Advisors:** Kim Allan, Matt Herndon

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
	College-level mathematics	6
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
SYG2000	Principles of Sociology	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 18 credit hours</b>		
CGS1570*	Microcomputer Applications	3
DEP2004	Developmental Psychology	3
ENC2210	Technical Writing	3
MAR2011*	Marketing	3
<b>Electives – 12 credit hours</b>		
	Transferrable Elective Hours	12
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Recreation Option/Therapeutic Recreation, Liberal Arts (REC2-AA)

**AREA OF CONCENTRATION:** The purpose of this university transfer track is to prepare students for a career in leisure services management. 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.

**Faculty Advisors:** Kim Allan, Matt Herndon

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
	College-level mathematics	6
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
SYG2000	Principles of Sociology	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 18 credit hours</b>		
CGS1570*	Microcomputer Applications	3
DEP2004*	Developmental Psychology	3
ENC2210	Technical Writing	3
MAR2011*	Marketing	3
<b>Electives – 20 credit hours</b>		
	Transferrable Elective Hours	20
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Recreation Option/Recreation Program, Liberal Arts (REC3-AA)

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual and Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
	College-level mathematics	6
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
SYG2000	Principles of Sociology	3
	History	3
	Government	3
<b>Transfer Common Prerequisites – 18 credit hours</b>		
CGS1570*	Microcomputer Applications	3
DEP2004*	Developmental Psychology	3
ENC2210	Technical Writing	3
MAR2011*	Marketing	3
<b>Electives – 12 credit hours</b>		
	Transferrable Elective Hours	12
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

\*Milestone Courses

## Software and Database Developer (SDD-AS)

**AREA OF CONCENTRATION:** Individuals pursuing an Associate of Science degree in the Software and Database Developer program want to begin or advance a career in software/database development. Graduates from this program seek positions as software developers, quality assurance specialists, database specialists and systems analysts. This program focuses on programming logic, in demand programming languages, database programming and design and analysis associated with creating software applications. A strong emphasis is placed on working collaboratively in a team environment, communicating effectively, and cultivating good software development skills.

**Faculty Advisor:** Tonitta Sauls

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 3 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
	Visual and Performing Arts OR Philosophy/Religion OR Literature	3
<b>Mathematics Area – 3 credit hours</b>		
MAC1105	College Algebra	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3
<b>Natural Sciences Area – 3 credit hours</b>		
		3
<b>Major Courses – 45 credit hours</b>		
CGS1570	Microcomputer Applications	3
COP1000*	Introduction to Programming Logic	3
COP2700*	Data Structure	3
CIS2321	System Analysis & Design	3
CGS1103	Project Management Concepts & Processes	3
COP2250	Java Programming I	3
COP2224	C++ Programming I	3
DIG2100	Web Design I	3
COP2840	Internet Programming	3
COP2657	Introduction to SmartPhone Programming	3
CTS1650	Network Fundamentals	3
COP2701	Database Design & Management	3
CTS1120	Computer & Network Security (Security+)	3
CEN2212	Introduction to Programming the Internet of Things (IoT)	3

COP2940	Integrative Programming & Technologies Capstone	3
<b>TOTAL DEGREE HOURS</b>		<b>60</b>

### \*Milestone Courses

## Technology Management Program of Study, Bachelor of Applied Science (TMA-BAS/TM- BAS)

**Program Goal:** The Technology Management Bachelor of Science (BAS) program is designed to build upon an associate degree in Software and Database Development, Network Administration, Cybersecurity, or Computer Programming. However, this degree is open to students with an associate degree seeking to expand their technology and leadership skills. The degree completion prepares you to move into a supervisory or management position.

### BAS Total Degree Credit Hours – 120 crs.

- General Education – 36 crs.
- Credit from AS/AA Degree – 42 crs.
- Technology Management Core Requirements – 36 crs.
- Specialization in Information Technology – 15 crs.

All students must have a total of 36 credit hours of General Education courses for the BAS degree. Most students entering the program will need an additional 21 General Education credit hours. The specific courses will vary among students. Please contact the BAS advisor for assistance.

**Faculty Advisor:** Wendy Payne

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 6 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
ENC1102	English Composition II	3
<b>Humanities Area – 9 credit hours</b>		
	Visual & Performing Arts	3
	Philosophy/Religion	3
	Literature	3
<b>Mathematics Area – 6 credit hours</b>		
	College-level mathematics	6
<b>Natural Sciences Area – 6 credit hours</b>		
	Physical Science	3
	Biological Science	3
<b>Social Sciences Area – 9 credit hours</b>		
	Behavioral Science	3
	History	3
	Government	3
<b>General Elective – 3 credit hours</b>		
<b>AA or AS Technical Requirements – 30 credit hours</b>		
CIS2321	Systems Analysis & Design	3
CTS1111	Linux+	3
CTS1650*	Network Fundamentals	3
COP2700*	Data Structure (SQL)	3

CGS1103*	Project Management Concepts & Processes	3
COP2701	Database Design & Management	3
CTS1120	Computer & Network Security (Security+)	3
COP1000*	Introduction to Programming Logic	3
DIG2100	Web Design I	3
CGS1570	Microcomputer Applications	3
<b>Technical Management Core Courses – 36 credit hours</b>		
MAN3303	Principles of Management & Leadership	3
GEB3213	Business Communication for Professional Effectiveness	3
CGS3092	Legal and Ethical Issues in IT	3
FIN3400	Financial Management	3
ISM4318	Agile Project Management	3
ISM4548	Web Analytics	3
MAN4520	Quality Management (Six Sigma)	3
ISM4302	Emerging Technologies	3
MAN3503	Managerial Risk Analysis & Decision Making	3
CIS3083	Cloud Computing for IT	3
ISM4330	Information Security Policy Administration & Management	3
MAN4900	Capstone Project	3
<b>Specialization in Software Development – 15 credit hours</b>		
COP2250	Java I	3
COP2840	Internet Programming	3
COP3855	JQuery	3
CIS4433	SecDevOps	3
COP3824	Developing Websites Using PHP MySQL	3
<b>Specialization in Cybersecurity Management – 15 credit hours</b>		
CTS1390	Installing and Configuring Windows Server	3
CTS1651	Router Technology (Basic) CCNA	3
ISM4323	Networking Security Management	3
CIS4200	Security Penetration Testing	3
CIS3122	Cybersecurity Analyst	3
<b>TOTAL DEGREE HOURS</b>		<b>120</b>

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

### \*Milestone Courses

## Unmanned Vehicle Systems Operations (UVS-AS)

**AREA OF CONCENTRATION:** The Unmanned Vehicle Systems Associate of Science degree gives graduates the expertise they need for employment as operations, observers, sensor operators, and operations administrators of unmanned vehicle systems. The coursework covers several UAS applications areas, including but not necessarily limited to surveillance and data collection, highly repetitive operations, and autonomous operations. Students also learn about the engineering aspects of these unmanned vehicle systems and the regulations governing their operation.

**Faculty Advisor:** Mike Shekari

### Curriculum Detail

Course Number	Course Name/Course Area	Credit Hours
<b>Communications Area – 3 credit hours</b>		
ENC1101 OR ENC1101C	English Composition I OR Enhanced English Composition	3
<b>Humanities Area – 3 credit hours</b>		
	Visual and Performing Arts OR Philosophy/Religion OR Literature	3
<b>Mathematics Area – 3 credit hours</b>		
	College-Level Mathematics	3
<b>Natural Sciences Area – 3 credit hours</b>		
	Biology or Physical Science	3
<b>Social Sciences Area – 3 credit hours</b>		
POS2041 OR AMH2020	American National Government OR US History II	3

<b>Major Courses – 41 credit hours</b>		
ATT1100*	Private Pilot Ground School	3
ATT1101*	Private Pilot Applications	3
CGS1570	Microcomputer Applications	3
EET1084C	Introduction to Electronics	3
ASC2560*	Unmanned Vehicles and Systems	1
ASC2560L*	Unmanned Vehicles and Systems Lab	2
ASC2561	Unmanned Vehicles and Systems Operations	1
ASC2561L	Unmanned Vehicles and Systems Operations Lab	2
DSC2250	Unmanned Vehicles Fundamentals for Disaster Management	3
GIS2040*	Introduction to Geographic Information Systems	3
GIS2030	Fundamentals of Remote Sensing	3
COP1000	Introduction to Programming Logic	3
COP2700	Data Structure (SQL)	3
ETS2606C	Robotics	3
ASC2564	Unmanned Vehicle Systems Security	3
ASC2949	Unmanned Systems Practicum	2
<b>Choose 6 credit hours from below:</b>		
ETD1320C	Introduction to CAD	3
DIG2200	Digital Video Fundamentals	3
ETD2371C	Introduction to 3D Printing	3
<b>TOTAL DEGREE HOURS</b>		<b>62</b>

**\*Milestone Courses**

## **APPENDIX**

- 1. ACADEMIC ADVISING SYLLABUS**
- 2. DEGREE PLANS**
- 3. PLACEMENT TEST SCORES**
- 4. MATHEMATICS & ENGLISH FLOW CHARTS**
- 5. COLLEGE CALENDAR**
- 6. RESOLUTION OF STUDENT ISSUES**
- 7. NOTES PAGE**

# Academic Advising Syllabus

This academic advising syllabus is designed to enhance your advising experience at Gulf Coast State College. It is a resource to help you stay on track academically, and it provides a clear understanding of your responsibilities as a student as well as those of your academic advisor. Refer to this syllabus regularly and use it as a guide during your educational journey.



## Academic Advising Mission

The mission of the academic advising program is to help students attain the academic credentials and professional skills necessary for their success.

Advising is a partnership in which students are guided in developing their interests and creating an efficient plan to achieve their goals.

## Pathway To Success



## Student Learning Outcomes

As a result of your active engagement in the advising process at Gulf Coast State College you will be able to:

- Recognize College requirements, deadlines, policies, and procedures.
- Make effective decisions concerning your degree and career goals.
- Develop an educational plan for successfully achieving your goals.
- Select courses each semester to progress toward fulfilling your educational plan.
- Utilize available campus resources and services to assist you in achieving your academic, personal, and career goals.
- Graduate in a timely manner based on your individual educational plan.
- Complete a degree audit by the time you are half-way through your program.

## Advisee Responsibilities

- Take responsibility for educational experience
- Learn how to access and use GCSC email, Canvas, My Student Dashboard, and any other online student success platform
- Become familiar with and use campus resources
- Read and respond to college emails on a regular basis
- Know important dates and deadlines (registration, drop/add, fees due, withdrawal, financial aid, scholarships, final exams, graduation, etc.)
- Attend advising sessions prepared to ask questions and discuss concerns
- Maintain regular contact with assigned advisor throughout the semester
- Keep a copy of this advising syllabus

## Advisor Responsibilities

- Be available to advisees through established means of communication
- Respond to advisee’s emails in a timely manner
- Provide guidance and support with selecting a major, career exploration, and transfer planning
- Provide accurate information about program requirements, college resources, and services
- Provide assistance in developing and reviewing individual academic plans
- Assist students in selecting courses based on intended major, academic interest, career goals, etc.
- Monitor academic progress and assist with developing action plans for students who encounter academic difficulty
- Maintain confidentiality



## Important Phone Numbers

Career/Academic Coach.....	850.769.1551 x2829
Counseling.....	850.759.1551 x4861
Enrollment Services.....	850.872.3839
Financial Aid .....	850.872.3845
IT Help Desk .....	850.913.3303
Library.....	850.872.3893
Student Accessibility Resources .....	850.747.3243
Testing Center .....	850.769.1551 x3594



## Student Success Checklist

- Schedule an introductory meeting with your academic advisor.
- Set academic goals with your academic advisor.
- Develop an academic plan with your academic advisor.
- Schedule meetings with your academic advisor throughout the semester to make sure you are making progress toward achieving your academic goals and to plan for the next semester.
- Know your professors' contact information including office hours and email.
- Always attend class. If you are going to miss class, let your professors know immediately. If you miss a class, make sure you speak with your professors to discuss what you missed.
- Know resources available for extra assistance outside of class time:
  - Academic/Career Coach
  - Counseling
  - Library
  - ACE Lab
  - Math Lab
  - Reading and Writing Lab
  - Science Lab
  - Student Accessibility Resources
  - TRIO
- Know important dates: tests, assignments due, registration, etc.
- Understand the transition from high school to college is an on-going process that requires active engagement on your part.
- Begin to understand your unique learning style.
- Be organized and understand the importance of time management.
- Attend programs and activities that will help you to expand your knowledge of your own culture as well as others.
- Explore co-curricular and extra-curricular activities including student clubs and organizations, intramural sports, Honors Program, etc.
- If you are planning to transfer to a 4-year college or university, research and know the requirements for admission and graduation at that college or university.
- Know how to complete a degree audit by the time you are half-way through your program.

## Important Dates for Fall 2023

Registration Begins.....	Monday, April 3, 2023
Fees Due.....	Friday, August 11, 2023
Classes Begin.....	Monday, August 21, 2023
Late Registration; Drop/Add .....	Monday, August 21 - Friday, August 25
Last Day to Apply for Fall Graduation .....	Monday, October 2, 2023
Last Day for Student to Initiate a Withdrawal .....	Friday, October 20, 2023
Final Examinations.....	Friday, December 8 - Thursday, December 14

## Important Dates for Spring 2024

Registration Begins.....	Monday, November 6, 2023
Fees Due.....	Thursday, January 4, 2024
Classes Begin.....	Friday, January 5, 2024
Late Registration; Drop/Add .....	Friday, January 5 - Thursday, January 11
Last Day to Apply for Spring Graduation.....	Monday, February 19, 2024
Last Day for Student to Initiate a Withdrawal .....	Wednesday, March 6, 2024
Final Examinations.....	Friday, April 26 - Thursday, May 2

## Important Dates for Summer 2024

Registration Begins.....	Monday, April 1, 2024
Fees Due.....	Tuesday, May 7, 2024
Classes Begin.....	Wednesday, May 8, 2024
Late Registration; Drop/Add .....	Wednesday, May 8 - Thursday, May 9
Last Day to Apply for Summer Graduation .....	Monday, June 3, 2024
Last Day for Student to Initiate a Withdrawal .....	Wednesday, June 26, 2024
Final Examinations.....	Wednesday, July 31 - Thursday, August 1

## AA - GCSC DEGREE PLAN

Student Name: ID#:	Faculty Advisor:	Pathway Navigator:	Major:
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Semester 1		Semester 2		Semester 3		Semester 4		Semester 5		Semester 6	
First Semester Courses	Second Semester Courses	Third Semester Courses	Fourth Semester Courses	Fifth Semester Courses	Sixth Semester Courses						
Total Hours	Total Hours	Total Hours	Total Hours	Total Hours	Total Hours	Total Hours		Total Hours		Total Hours	
* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better		* Requires C or better		* Requires C or better	

<input type="checkbox"/> Foreign Language Requirement AA or Baccalaureate Degree	<input type="checkbox"/> Civic Literacy Requirement (course and exam)	<input type="checkbox"/> Flexible Placement
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Milestones	Milestones	Milestones
Complete Career Coach Assessment	Narrow University Transfer Choices	Apply to the University  Apply for GCSC Graduation

External Credit: AP, IB, AICE, CLEP, DSST or Other Equivalent	Notes:

## AS - GCSC DEGREE PLAN

Student Name: ID#:	Faculty Advisor:	Pathway Navigator:	Major:
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	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
First Semester Courses	Second Semester Courses	Third Semester Courses	Fourth Semester Courses	Fifth Semester Courses	Sixth Semester Courses	
Total Hours	Total Hours	Total Hours	Total Hours	Total Hours	Total Hours	Total Hours
* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better

Civic Literacy Requirement (course and exam)

Flexible Placement

Milestones	Milestones	Milestones	Milestones
Complete Career Coach Assessment	Develop Resume Draft	Complete Resume and Cover Letter	Apply for GCSC Graduation

External Credit: AP, IB, AICE, CLEP, DSST or Other Equivalent	Notes:

## AA - GCSC DEGREE PLAN

Student Name:	Faculty Advisor:	Pathway Navigator:	Major:
ID#:			

First Semester Courses	Second Semester Courses	Third Semester Courses	Fourth Semester Courses	Fifth Semester Courses	Sixth Semester Courses	Seventh Semester Courses	Eighth Semester Courses
Total Hours	Total Hours	Total Hours	Total Hours	Total Hours	Total Hours	Total Hours	Total Hours
* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better

<input type="checkbox"/> Foreign Language Requirement AA or Baccalaureate Degree	<input type="checkbox"/> Civic Literacy Requirement (course and exam)	<input type="checkbox"/> Flexible Placement
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Milestones	Milestones	Milestones	Milestones
Complete Career Coach Assessment	Narrow University Transfer Choices	Apply to the University	Apply for GCSC Graduation

External Credit: AP, IB, AICE, CLEP, DSST or Other Equivalent	Notes:

# AS-GCSC DEGREE PLAN

Student Name and ID:		Faculty Advisor:			Pathway Navigator:			Major:	
First Semester Courses	Second Semester Courses	Third Semester Courses	Fourth Semester Courses	Fifth Semester Courses	Sixth Semester Courses	Seventh Semester Courses	Eighth Semester Courses		
Total Hours	Total Hours	Total Hours	Total Hours	Total Hours	Total Hours	Total Hours	Total Hours		
* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better	* Requires C or better		

Civic Literacy Requirement (course and exam)

Flexible Placement

Milestones	Milestones
Complete Career Coach Assessment	Develop Resume Draft
	Complete Resume and Cover Letter
	Apply for GCSC Graduation

External Credit: AP, IB, AICE, CLEP, DSST or Other Equivalent	Notes:



### Test Score Worksheet for Placement (valid for two years from testing date)

Subtest	PERT	ACT	SAT	Course Placement
Writing & Reading	103-150 (W) 106-150 (R)	17 (E) & 19 (R)	24	ENC 1101 – English Composition I
Writing & Reading	86-102 (W) 86-105 (R)	15 (E) & 17 (R)	22	ENC 1101C – Enhanced English Composition I
Writing	50-85	Must take PERT to determine placement	Must take PERT to determine placement	ENC 0022 – Developmental Writing I & II
Reading	50-85	Must take PERT to determine placement	Must take PERT to determine placement	REA 0019 – Developmental Reading I & II
Subtest	PERT	ACT	SAT	Course Placement
Math	138-150 & 250-275 (AAF)*	23-27	25.50	MAC 1114 – Plane Trigonometry MAC 1140 – Pre-calculus Algebra MAC 2233 – Calculus for Business & Social Science
Math	123-150	20-22	24.50	MAC 1105 – College Algebra STA 2122 – Applied Statistics in Social Science
Math	114-122	19	24.00	STA 2023 – Statistics MGF 1106 – Mathematics for Liberal Arts MGF 1107 – Survey of Mathematics **MAT 1033 – Intermediate Algebra
Math	50-113	Must take PERT to determine placement	Must take PERT to determine placement	MAT 0012 – Developmental Arithmetic with Algebra

\*\* = MAT 1033 does not meet General Education requirements

\* = Advanced Algebra of Functions (Accuplacer Next Generation) effective as of 05/01/2020

# ASSOCIATE IN ARTS (AA) DEGREE

<b>Student's Name:</b>	<b>Student's ID Number:</b>
<b>Date:</b>	<b>Pathway Navigator/Faculty Advisor:</b>
<b>Transfer Track:</b>	<b>Intended Bachelor's Program:</b>

## General Education (36 Hours)

Transfer track programs often require that you take specific general education courses in each general education area. Below are the general education requirements for your program. Consult with your Faculty Advisor if you have any questions.

### Communications (6 credits)

- ENC1101 English Composition I●+\* 3
- ENC1101C Enhanced English Comp. I●+\* 4
- ENC1102 English Composition II+\* 3

### Humanities (9 credits)

One course each from Visual & Performing Arts, Philosophy/Religion, and Literature. At least one course must be a core course (●).

#### Humanities 1—Visual & Performing Arts

- ARH2000 Understanding Visual Arts● 3
- ARH2050 Art History I 3
- ARH2051 Art History II 3
- ARH2060 History of Architecture 3
- MUL2010 Understanding Music● 3
- MUL2110 Survey of Music Literature 3
- THE2000 Understanding Theater● 3
- THE2071 Survey of Film 3

#### Humanities 2—Philosophy/Religion

*Prerequisite* ENC1101 or ENC1101C with grade "C" or higher.

- PHH2060 Intro. to Classical Philosophy+\* 3
- PHI2002 Intro. to Modern Philosophy+\* 3
- PHI2010 Intro. to Philosophy●+\* 3
- PHI2600 Ethics+\* 3
- PHI 2620 Environmental Ethics+\* 3
- PHI2635 Biomedical Ethics+\* 3
- REL2121 Intro. to Religion in America+\* 3
- REL2300 Religions of the World+\* 3
- REL2315 Eastern Religions+\* 3
- SPN2200 Second Year—Spanish I+\* 4

#### Humanities 3—Literature

*Prerequisite* ENC1102 with grade "C" or higher.

- AML2010 Amer. Lit. through the Civil War+\* 3
- AML2020 Amer. Lit: Reconstr.—Present+\* 3
- AML2600 African-American Literature+\* 3
- ENG2111 Literature and Film+\* 3
- ENL2012 Eng. Lit. through the 18<sup>th</sup> Century+\* 3
- ENL2022 Eng. Lit.: Romantics to Present+\* 3
- LIT2000 Literature and Culture●+\* 3
- LIT2040 World Drama+\* 3
- LIT2090 Contemporary Literature+\* 3
- LIT2110 World Lit.: Ancient—Renaissance+\* 3
- LIT2120 World Lit.: Enlightenment—Present+\* 3
- LIT2380 Women in Literature+\* 3

### Mathematics (6 credits)

Two courses from Mathematics. At least one course must be a core course (●). The combination of STA2023 and STA2122 will not meet the math requirement. Successfully completing a math course for which a core course option in math is an immediate prerequisite will meet the math core requirement.

- MGF1106 Math for Liberal Arts●+\* 3
- MGF1107 Survey of Mathematics●+\* 3
- STA2023 Statistics●+\* 3
- STA2122 Statistical Applications+\* 4
- MAC1105 College Algebra●+\* 3
- MAC1114 Plane Trigonometry+\* 3
- MAC1140 Pre-Calculus Algebra+\* 3
- MAC2233 Business Calculus+\* 3
- MAC2311 Calculus with Geometry I●+\* 4
- MAC2312 Calculus with Geometry II+\* 4
- MAC2313 Calculus with Geometry III+\* 4
- MAP2302 Differential Equations+\* 3

### Natural Sciences (6 credits)

One course each from Physical Sciences and Biological Sciences. At least one course must be a core course (●).

#### Physical Sciences

- AST1002 Descriptive Astronomy● 3
- CHM1032 General, Organic, Biochemistry+ 3
- CHM1040 Fundamentals of Chemistry+ 3
- CHM1045 General Chemistry●+ 3
- ESC2000 Earth & Space Science Survey● 3
- EVR1001 Intro. to Environmental Science● 3
- GLY1010 Physical Geology 3
- GLY1032 Natural Disasters 3
- OCE1001 Fundamentals of Oceanography 3
- PHY1020 Basic Concepts of Physics● 3
- PHY1023 Survey of General Physics+ 3
- PHY2048 University Physics I●+ 4
- PHY2053 College Physics I●+ 3

#### Biological Sciences

- BOT2800 Plants & Society 3
- BSC1005 General Biological Science● 3
- BSC1020 Human Biology 3
- BSC2010 Biology for Science Majors I●+ 3
- BSC2085 Anatomy & Physiology I●+ 3
- BSC2311 Introduction to Marine Biology 3

### Social Sciences (9 credits)

One course each from Behavioral Sciences, History, and Government. At least one course must be a core course (●). History & Government: Students are expected to take one Global course and one U.S. course. See Civic Literacy requirement under Other AA Requirements.

#### Behavioral Sciences

- ANT2000 Introduction to Anthropology● 3
- ECO2013 Principles of Economics, Macro● 3
- PSY2012 General Psychology● 3
- SYG2000 Principles of Sociology● 3

#### History

- Global
  - EUH1000 Western Civilization I 3
  - EUH1001 Western Civilization II 3
  - WOH 2012 World History I 3
  - WOH 2022 World History II 3

#### U.S.

- AMH2010 United States History I 3
- AMH2020 United States History II●@ 3

#### Government

- Global
  - CPO2002 Comparative Government 3

#### U.S.

- POS2041 American Nat'l Government●@ 3
- POS2112 State & Local Government 3

### Developmental Courses

- ENC0022 Dev. Writing I & II Combined\* 3
- REA0019 Dev. Reading I & II Combined\* 3
- MAT0012 Dev. Arithmetic with Algebra\* 3
- MAT0055 Dev. Mathematics Module I\* 1
- MAT0056 Dev. Mathematics Module II\* 2

## Electives (24 Hours)

The 24 credit hours of electives that you must complete for the AA are determined by your transfer track program. See the catalog description of your transfer track program or your Pathway Navigator/Faculty Advisor for information about your program's specific elective requirements.

Course	Hours

## Notes

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## Other AA Requirements

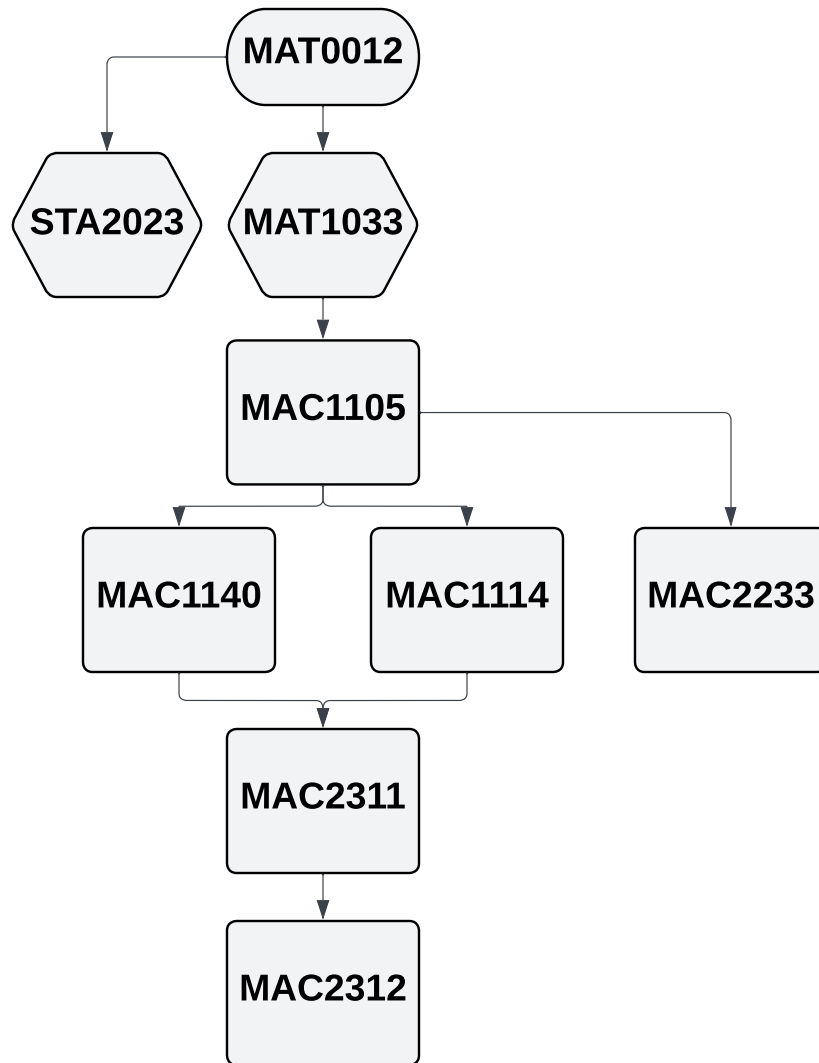
- General Education Core Requirement**  
Successful completion of at least one dotted core course from each of the five major general education areas: Communications, Humanities, Mathematics, Natural Sciences, Social Sciences
- Civic Literacy Requirement (@)**  
Successful completion of AMH 2020 OR POS 2041 AND passing score on civic literacy exam
- Foreign Language Requirement**  
Successful completion of 2 years of high-school-level foreign language or 2 semesters of college-level foreign language

## Key

- = General Education Core course
- + = Prerequisite or co-requisite required
- \* = Minimum grade of "C" required
- @ = Course meets Civic Literacy Requirement

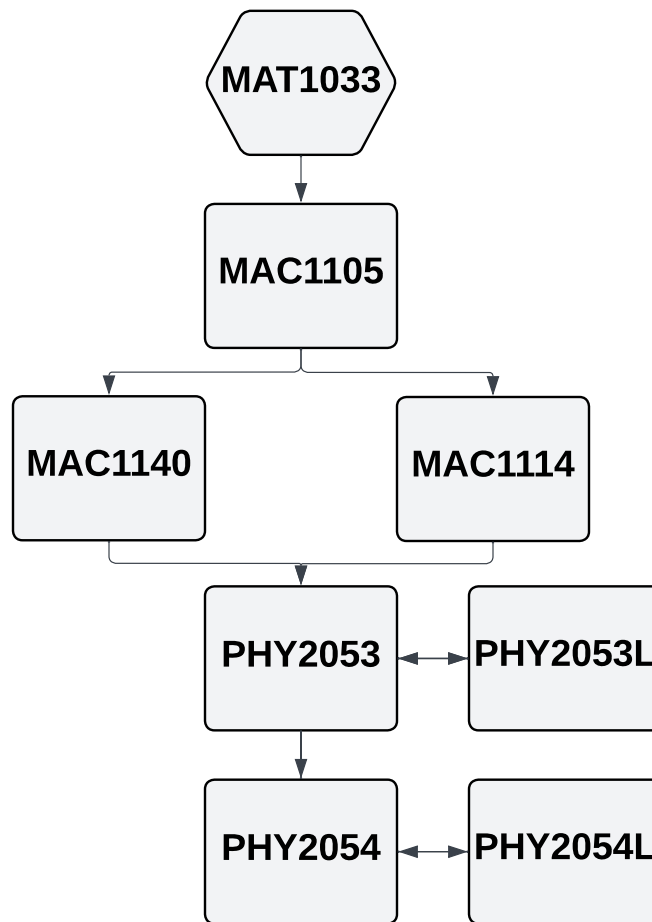


# Business, Industry, Technology & Manufacturing Mathematics Flowchart



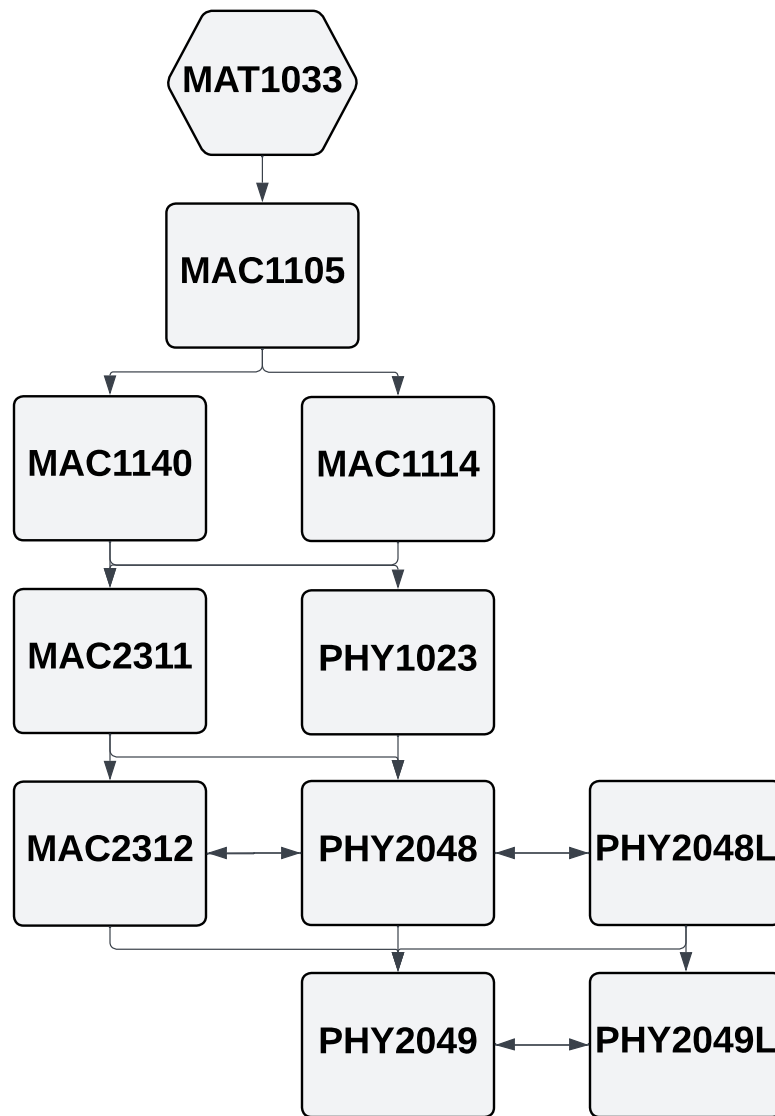
- MAT0012 is a developmental math courses designed for students with specific placement scores
- MAT1033 is a college-level credit course that does NOT count at college-level math
- Flexible placement allows a student to begin at MAT1033 or STA2023 without requiring a placmenet test; however, ONLY MAT1033 can be used as a prerequisite for MAC1105
- Courses that count as college-level math begin at MAC1105 or STA2023
- Placement test scores (PERT, ACT, SAT) can be used to place students in higher level math courses
- Students must earn a grade of C or higher to pass and progress to the next level math course
- MAC2233, Business Calculus, is the highest level calculus course required for Accounting and Business majors

# College Physics Flowchart



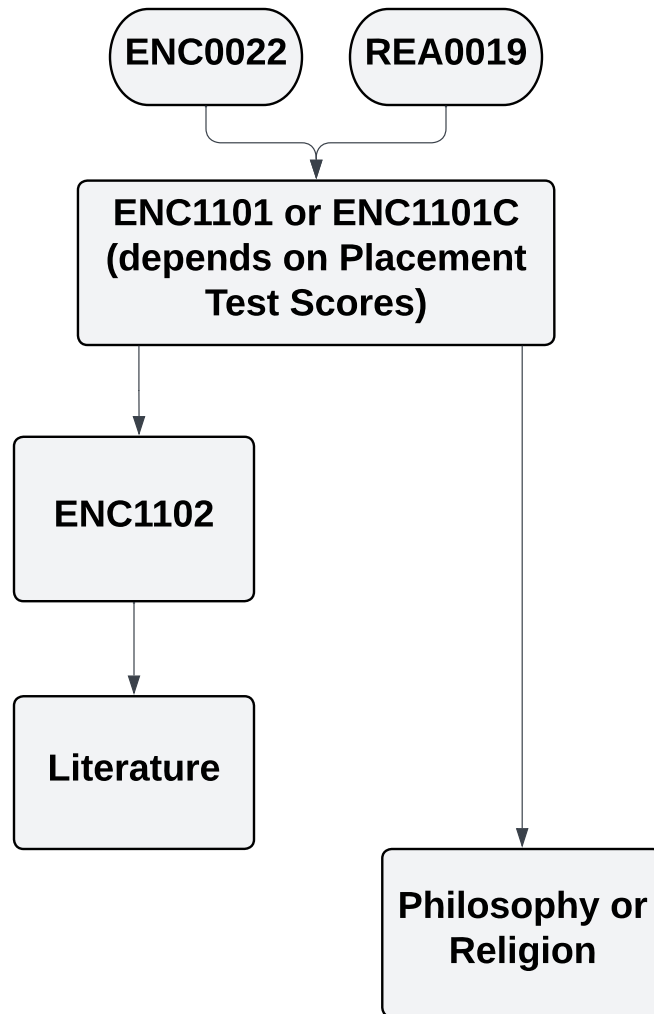
- College Physics I (PHY2053) and above require a corequisite of the associated laboratory course.

# Physics Flowchart



- University Physics I (PHY2048) and above require a corequisite of the associated laboratory course.
- University Physics I (PHY20485) requires the mathematics prerequisite of MAC2311 and the corequisite of MAC2312.
- University Physics II (PHY2049) requires the mathematics corequisite of MAC2312.

## English and Humanities Flowchart



- ENC0022 and REA0019 are developmental courses, not college-level courses
- Students must earn a grade of C or higher to pass and progress to the next level course
- We recommend that students take literature before philosophy or religion
- Philosophy or religion courses might use APA, Chicago, Turabian, or another writing style that is appropriate for the discipline
- ENC1101, ENC1101C, ENC1102, and all literature use MLA

2023 - 2024 College Calendar		Fall 2023 (202308)			Spring 2024 (202401)			Summer 2024 (202405)		
	Session A 8/21 - 12/15	Session B 8/21 - 10/13	Session C 10/16 - 12/15	Session A 1/5 - 5/3	Session B 1/5 - 2/28	Session C 2/29 - 5/3	Session A 5/8 - 8/2	Session B 5/8 - 6/19	Session C 6/20 - 8/2	
<b>First time in college students must attend an orientation session to be eligible for registration.</b>										
Early Registration for Students Receiving Veteran Benefits from GSCC	March 31	March 31	March 31	November 3	November 3	November 3	March 29	March 29	March 29	
Open Registration for all campuses (excludes Sat., Sun., & holidays) See in - service Day below.*	April 3	April 3	April 3	November 6	November 6	November 6	April 1	April 1	April 1	
<b>Web registration will be available when college is closed except for scheduled maintenance windows.</b>										
Registration Fees Due	August 11	August 11	(After August 11, fees due at point of registration)	January 4	January 4	(After January 4, fees due at point of registration)	May 7	May 7	(After May 7, fees due at point of registration)	
Classes Begin	August 21	August 21	October 16	January 5	January 5	February 29	May 8	May 8	June 20	
State Employee Fee Waiver Registration	August 21 - 25	August 21 - 25	October 16 - 17	January 5 - 11	January 5 - 11	February 29 - March 4	May 8 - 9	May 8 - 9	June 20 - 24	
Drop/Add	August 21 - 25	August 21 - 25	October 16 - 17	January 5 - 11	January 5 - 11	February 29 - March 4	May 8 - 9	May 8 - 9	June 20 - 24	
Last day to submit residency fee waiver documentation (by 4:00 p.m.)	August 25	August 25	October 17	January 11	January 11	March 4	May 9	May 9	June 24	
Last day to cancel registration/drop courses and receive a refund (by 11:59 p.m.)	August 25	August 25	October 17	January 11	January 11	March 4	May 9	May 9	June 24	
Last day to change major and credit to audit	August 25	August 25	October 17	January 11	January 11	March 4	May 9	May 9	June 24	
Midterm	October 13	September 18	November 13	February 28	February 1	April 2	June 19	May 29	July 11	
Student Informed Withdrawal deadline	October 20	September 25	November 20	March 6	February 8	April 9	June 26	June 5	July 18	
Final Examinations	December 8 - 14	October 11 - 13	December 11 - 14	April 26 - May 2	February 27 - February 28	April 29 - May 2	July 31 - August 1	June 18 - 19	July 31 - August 1	
Term Ends	December 15	October 13	December 15	May 3	February 28	May 3	August 2	June 19	August 2	
Grades available via Banner	December 19	October 17	December 19	May 7	March 4	May 7	August 6	June 21	August 6	
Graduation Application deadline	October 2	October 2	October 2	February 19	February 19	February 19	June 3	June 3	June 3	
<b>In order for summer graduates to participate in the spring ceremony, they must submit their summer graduation application prior to the spring application deadline. No exceptions.</b>										
Honors Convocation				April 26						
Commencement				May 3						
<b>College Closed for all students</b>										
*In-service Day	August 16									
Student Holidays - Classes will not be held on these days	September 2 - 4			January 2 - 4			May 25 - 27			
	November 10 - 12			January 13 - 15			July 4			
	November 22 - 26			March 16 - 22						
Faculty - Christmas Break / New Year	December 15 - January 1									
Faculty - Christmas Break / New Year	December 18 - January 1									
<b>College closed for all students and employees</b>										
Memorial Day							May 25 - 27			
Independence Day							July 4			
Labor Day	September 2 - 4									
Veteran's Day	November 10 - 12									
Thanksgiving Holidays	November 23 - 26									
Christmas Break / New Year's Holiday	December 22 - January 1									
Martin Luther King, Jr. Day				January 13 - 15						
Spring Break				March 16 - 22						

*Gulf Coast State College reserves the right to change the college calendar, or to make other changes deemed necessary, giving advance notice of change when possible.*

ISSUE	FIRST RESPONSE	NEXT LEVEL	NEXT LEVEL 2	FINAL ADMINISTRATIVE LEVEL
Academic Standing	Navigation Center	Counselor		Dean of Student Engagement
First Term Academic Advising	Navigation Center			Dean of Student Engagement
Program Academic Advising	Faculty Academic Advisor	Academic Division Chair	Navigation Center	Dean of Student Engagement
Canvas, GCSC Email, Lighthouse Issue	ITS Website	Technical Support		Chief Information Officer
Admission Application	Application Process Specialist	Coordinator of Enrollment Services	Executive Director of Enrollment Services	Dean of Student Engagement
Bookstore	Bookstore Cashier	Coordinator of Bookstore	Executive Director of Procurement and Auxiliary Services	Dean of Business Affairs
Contact Instructor	Course Syllabus	GCSC Website, Employee Directory	Academic Division Chair	Vice President of Academic Affairs
Course Refund Requests				Dean of Student Engagement
Discrimination	GCSC Employee	Dean of Student Life		Executive Director of Human Resources
Evening Campus Contact	College Employee	Campus Custodial Staff		Executive Director of Operations
Faculty Concerns	Faculty Member	Academic Division Chair		Vice President of Academic Affairs
Financial Aid	Financial Aid Staff	Director of Financial Aid	Executive Director of Student Financial Services	Dean of Business Affairs
GCSC Foundation Scholarship	Foundation Staff	Finance and Scholarship Program Manager	Executive Director of GCSC Foundation	College President
Graduation	Graduation Specialist	Coordinator of Enrollment Services	Executive Director of Enrollment Services	Dean of Student Engagement
Harassment	GCSC Employee	Dean of Student Life		Executive Director of Human Resources
Library	Library Professional Staff	Director of the Library		Vice President of Academic Affairs
Orientation	Director of Navigation Center			Dean of Student Engagement
Password Reset	ITS Website	ITS Help Desk		Chief Information Officer

ISSUE	FIRST RESPONSE	NEXT LEVEL	NEXT LEVEL2	FINAL ADMINISTRATIVE LEVEL
Registration	Enrollment Specialist	Coordinator of Enrollment Services	Executive Director of Enrollment Services	Dean of Student Engagement
Repeat Course with a Grade of C or Higher				Dean of Student Engagement
Security	FSU Police 850-774-2705	Executive Director of Operations		College President
Student Activities	Student Government Association	Student Activities Coordinator		Dean of Student Life
Student Financial Accounts	Cashier	Bursar	Executive Director of Student Financial Services	Dean of Business Affairs
Students with Disabilities	Assistant Coordinator of Student Accessibility Resources	Coordinator of Student Accessibility Resources		Dean of Student Life
Student Grade Concerns	Faculty Member	Academic Division Chair		Vice President of Academic Affairs
Testing	Testing Assistant	Coordinator of Testing		Dean of Student Engagement
Transcripts	Transcript Evaluation Specialist	Coordinator of Enrollment Services	Executive Director of Enrollment Services	Dean of Student Engagement
Weekend Campus Contact	Campus Custodial Staff	FSU Police 850-774-2705		Vice President of Administration and Finance
Veteran Benefits	Coordinator of Veteran Services	Executive Director of Enrollment Services		Dean of Student Engagement
3rd Attempt of a Course	Counselor			Dean of Student Engagement
4th Attempt of a Course				Dean of Student Engagement

NOTES







Panama City Campus  
**850.769.1551**

Gulf/Franklin Campus  
**850.227.9670**

North Bay Campus  
**850.747.3233**

Tyndall Education Center  
**850.913.2910**