



# CATALOG | 2016 AND STUDENT HANDBOOK | 2017



**CALHOUN**  
COMMUNITY COLLEGE



Your Community. Your College. Your Future.



CALHOUN  
COMMUNITY COLLEGE

# CATALOG

## AND STUDENT HANDBOOK

### 2016-2017

Calhoun Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Calhoun Community College. Specific questions regarding Calhoun's educational programs, admissions and other matters related specifically to the College should be forwarded directly to the College.

**Calhoun is a member of the  
American Association of Community Colleges  
Alabama Community College System**

*It is the intent of the compilers of this catalog that it contain policies, procedures, and guidelines adopted or approved by the Trustees for The Alabama Community College System. Users are cautioned that changes in policies, procedures, and guidelines may occur. Therefore, the information provided in the catalog is not the basis of a contract between the College and the student. The College will make every effort to maintain the integrity of the catalog and notify students of any changes that may occur. However, the College withholds the right to change any provision in this publication without notifying a student individually. In the event of any such change, the current statement of Board policy shall prevail.*

#### DECATUR

P.O. Box 2216  
Decatur, AL 35609-2216  
(256) 306-2500

#### ALABAMA CENTER FOR THE ARTS

133 2nd Ave NE  
Decatur, AL 35601  
(256) 260-4293

#### HUNTSVILLE

102B Wynn Drive  
Huntsville, AL 35805  
(256) 890-4747

## EQUAL OPPORTUNITY IN EDUCATION AND EMPLOYMENT

Calhoun Community College is committed to equal opportunity in employment and education. The College does not discriminate in any program or activity on the basis of race, color, religion, sex, age, or national origin, or against qualified disabled persons, and it maintains an affirmative action program for protected minorities and women.

## NONDISCRIMINATION STATEMENT

Calhoun Community College has filed with the Federal Government an Assurance of Compliance with all requirements imposed by or pursuant to Title VI of the Civil Rights Act of 1964 and the Regulation issued thereunder, to the end that no person in the United States shall, on the basis of race, color or national origin, be excluded from participation in, be denied the benefits thereof, or be otherwise subjected to discrimination under any program or activity sponsored by this institution. It is also the policy of Calhoun to be in accordance that "no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Title IX Coordinator for administrators, faculty, and staff is Ms. Kim Gaines, Office of Human Resources and Payroll, P.O. Box 2216, Decatur, Alabama 35609-2216; telephone (256) 306-2592. The Title IX Coordinator for students is Dr. Patricia Wilson, Dean of Student Services, P. O. Box 2216, Decatur, Alabama 35609-2216; telephone (256) 306-2613.

In addition, the College does not discriminate on the basis of disability in its educational programs and activities, pursuant to the requirements of Section 504 of the Rehabilitation Act of 1973, Public Law 93-112, and the Americans with Disabilities Act of 1990 (ADA), Public Law 101-336. This policy extends to employment by and admission to the College. The Section 504 Coordinator for administrators, faculty and staff is Ms. Kim Gaines, Office of Human Resources and Payroll, P.O. Box 2216, Decatur, AL 35609-2216; telephone (256) 306-2592. The Section 504 Coordinator for students is Dr. Patricia Wilson, Dean of Student Services, P.O. Box 2216, Decatur, AL 35609-2216; telephone (256) 306-2613 or 890-4700. The Dean of Student Services is the ADA Coordinator for the College.

Persons or any specific class of individuals who believe they have been subjected to discrimination prohibited by Titles VI, IX, Section 504, ADA, or an Act or Regulation issued thereunder may, alone or with a representative, file with the United States Commissioner of Education or with this institution, or with both, a written complaint.

Calhoun Community College engages in continual study on our effectiveness.  
Students may be required to participate in tests/surveys or other activities as part of this process.

*Calhoun Community College owns all photographs of students and participants taken at Calhoun events and reserves the right to use these photographs for college promotional materials, both digital and print. Students who do not wish to have their photographs used must have a "Do Not Use Photograph" form completed and on file in the Calhoun Public Affairs Office.*

WELCOME TO  
**CALHOUN**  
COMMUNITY COLLEGE

## HISTORY OF CALHOUN COMMUNITY COLLEGE

Calhoun Community College is the result of the consolidation of the Tennessee Valley State Technical School and John C. Calhoun State Technical Junior College. The Tennessee Valley State Technical School was instituted by the Wallace-Patterson Trade School Act of 1947. John C. Calhoun State Technical Junior College was established under the Alabama Trade School Authority Act of 1963. The two schools were merged into a comprehensive institution to become the John C. Calhoun State Technical Junior College and Technical School in September 1965. The president is directly responsible to the Board of Trustees for the Alabama Community College System (ACCS). The present designation as a community college was formalized by a State Board of Education resolution of September 23, 1973.

Dr. Mark A. Heinrich  
Chancellor  
The Alabama Community College System

## MESSAGE FROM THE PRESIDENT

On behalf of our students, faculty, and staff, I welcome you to Calhoun Community College! We are pleased that you are interested in Calhoun and the programs, services, and people that make up this excellent college.

As one of the leading institutions of higher education for Alabama and the region, we are committed to student success. By providing quality, accessible educational opportunities, encouraging community involvement, and promoting economic development, we seek to improve the quality of life for our students and the communities we serve.

In this catalog, you will find information on such topics as admissions policies and procedures, financial aid, academic programs, student support services, and business and industry training programs. We encourage you to contact us at any time you may have questions or need additional information about Calhoun.

Thank you for your interest in Calhoun Community College. We are truly “your” community College.



JAMES S. KLAUBER, SR., Ph.D.  
President

## MISSION

Calhoun Community College is an institution of excellence providing quality, innovative instruction through a responsive learning environment while promoting cultural enrichment and community development.

## CORE VALUES

INTEGRITY

ACCOUNTABILITY

DIVERSITY

TEAMWORK

CREATIVITY

## VISION STATEMENT

Success for every student.

## Fall Semester

Registration/Duty Day	R	Aug	11
Registration/Duty Day	F	Aug	12
Professional Development/Duty Day	M	Aug	15
Registration/Duty Day	T-F	Aug	16-19
Huntsville Weekend Classes Begin	F	Aug	19
Classes Begin	M	Aug	22
Holiday – Labor Day	M	Sept	5
Professional Development/Duty Day	M	Oct	10
Veterans Day	F	Nov	11
Faculty Duty Day	W	Nov	23
Holiday – Thanksgiving	R-F	Nov	24-25
Last Class Day Before Finals	W	Dec	7
Finals	R-W	Dec	8-14
Duty Day/Grade Reporting	R	Dec	15

## Spring Semester

Professional Development/Duty Day	T	Jan	3
Registration/Duty Day	W	Jan	4
Registration/Duty Day	R	Jan	5
Registration/Duty Day	F	Jan	6
Huntsville Weekend Classes Begin	F	Jan	6
Classes Begin	M	Jan	9
Holiday – King/Lee	M	Jan	16
Professional Development	M	Feb	20
Spring Break	M-F	Mar	27-31
Classes Resume	M	April	3
Last Class Day Before Finals	W	May	3
Final Exams	R-W	May	4-10
Duty Day/Grade Reporting	R	May	11
Graduation/Duty Day	F	May	12

## Summer Semester

Duty Day/Registration	R	May	18
Duty Day	F	May	19
Classes Begin	M	May	22
Holiday/Memorial Day	M	May	29
Holiday/Independence Day	T	July	4
Last Class Day Before Finals	W	July	26
Final Exams	R-W	July	27-Aug 2
Grade Reporting/Duty Day	R	Aug	3

### The College will be closed the following ten holidays:

Monday	September 5, 2016	Labor Day
Friday	November 11, 2016	Veterans Day
Thursday	November 24, 2016	Thanksgiving Day
Friday	November 25, 2016	Day after Thanksgiving
Friday	December 23, 2016	Christmas Eve
Monday	December 26, 2016	Christmas Day
Monday	January 2, 2017	New Years' Day
Monday	January 16, 2017	Martin Luther King/Robert E. Lee
Monday	May 29, 2017	Memorial Day
Tuesday	July 4, 2017	Independence Day

### In addition, the College will be closed the following days:

Tuesday	December 27, 2016
Wednesday	December 28, 2016
Thursday	December 29, 2016
Friday	December 30, 2016
Thursday	March 30, 2017
Friday	March 31, 2017

## Faculty Duty Days & Instructional Days By Semester

### Fall

	Faculty Duty Days	Instructional Days
August	15	8
September	21	21
October	21	20
November	19	18
December	11	10
<b>Total</b>	<b>87</b>	<b>77</b>

### Spring

	Faculty Duty Days	Instructional Days
January	20	16
February	20	19
March	18	18
April	20	20
May	10	8
<b>Total</b>	<b>88</b>	<b>81</b>

### Summer

	Faculty Duty Days	Instructional Days
May	9	7
June	22	22
July	20	20
August	3	2
<b>Total</b>	<b>54</b>	<b>51</b>

## Grand Totals Faculty Duty Days & Instructional Days

Semester	Faculty Duty Days	Instructional Days
Fall	87	77
Spring	88	81
<b>Total</b>	<b>175</b>	<b>158</b>
Summer	54	51
<b>GRAND TOTAL</b>	<b>229</b>	<b>209</b>

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## COLLEGE POLICIES AND REGULATIONS

### NOTICE OF AVAILABLE ACCOMMODATIONS FOR STUDENTS, EMPLOYEES, AND APPLICANTS WITH DISABILITIES.

Calhoun Community College does not discriminate on the basis of disability in admitting students to, providing access to, or in the operations of its programs, services, or activities, or in its hiring or employment practices.

Questions, concerns, complaints, requests for information, or requests for the provision of reasonable accommodations to persons with disabilities should be directed to Calhoun Community College's ADA Compliance Coordinator, whose name, address, e-mail, and phone number are shown below:

Dr. Patricia Wilson  
Dean of Student Services  
Chasteen Student Center, Room 205  
P.O. Box 2216  
Decatur, Alabama 35609-2216 patricia.wilson@calhoun.edu  
Phone: 256-306-2613  
Fax Number: 256-306-2948  
Office Hours: 7:45 a.m. - 5:15 p.m., Monday-Thursday  
7:45 a.m. - 11:45 a.m. - Friday

Students who need auxiliary aids for effective communication in participating in the programs and services of Calhoun Community College should make these needs known to the ADA Compliance Coordinator or designee.

This notice is provided pursuant to the requirements of the Americans with Disabilities Act of 1990. It is also available in larger print, on audio tape, and in braille from the ADA Compliance Coordinator.

### TOBACCO-FREE POLICY

Calhoun Community College is committed to providing a safe and healthy environment for its employees, students and visitors. The College recognizes the right of persons to make their own decisions about their personal use of tobacco products away from the College. However, in light of findings of the U.S. Surgeon General that exposure to secondhand tobacco smoke and the use of tobacco products are significant health hazards, it is the intent of the College to establish a tobacco-free environment on its campuses and in its vehicles. Consequently, the use, distribution, or sale of tobacco products, including the carrying of any lighted smoking instrument, in College buildings or in or upon other College premises or inside College owned, rented or leased vehicles is prohibited.

For the purposes of this policy, a "tobacco product" is defined to include any lighted or unlighted cigarette (including electronic cigarettes), cigar, pipe, bidi, clove cigarette, and any other smoking product, as well as smokeless or spit tobacco, also known as dip, chew, snuff, snus, in any form.

All College employees, students, visitors and contractors are required to

comply with this policy, which shall remain in force at all times. Any College employee or student found to be in violation of the tobacco-free policy will be subject to a monetary fine. Tickets will be issued by campus police officers for violations of Calhoun's tobacco-free policy. Monetary fines will be imposed as listed below, depending on whether the offender is an employee or student.

### STUDENT FINES

Any Calhoun student found to have violated this policy shall be subject to the following fines:

1st Ticket	\$25.00 Fine
2nd Ticket	\$25.00 Fine

All fines must be paid within seven (7) days of ticketing. Fines that are not paid within the seven (7) days shall automatically double in amount.

A student who has pending fine or fines may not register for classes nor have transcripts released until all fines are paid in full.

Any student wishing to appeal a fine arising from the finding of a tobacco-free violation under this policy may do so with the Dean of Student Services, Dr. Patricia Wilson.

### EMPLOYEE FINES

Any Calhoun employee found to have violated this policy shall be subject to the following fines:

1st Ticket	\$25.00 Fine
2nd Ticket	\$25.00 Fine

All fines must be paid within seven (7) days of ticketing. Fines that are not paid within the seven (7) days shall automatically double in amount.

Any employee wishing to appeal a fine arising from the finding of a violation of this policy may do so with the Vice-President for Academic Affairs.

With the exception of advertising in a newspaper, magazine, or similar publication that is not produced by Calhoun Community College, no tobacco-related advertising or sponsorship shall be permitted on Calhoun Community College property or at college-sponsored events. No tobacco-related advertising or sponsorship shall appear in any publications produced by the College or by any club or association authorized by Calhoun Community College. For the purposes of this policy, the term "tobacco-related" applies to the use of a tobacco brand or corporate name, trademark, logo, symbol or motto, selling message, recognizable pattern of colors or any other indicia of product identification identical to or identifiable with, those used for any brand of tobacco products or company which manufactures tobacco products.

The College President will develop administrative regulations and procedures as necessary to implement this policy, including provisions for notification, signage, disciplinary consequences, complaint procedures and enforcement.

Procedures will be developed to offer, promote prevention and education initiatives that actively support non-use and address the risks of all forms of tobacco use. The College will also endeavor to have information available for its students and employees on community programs or services related to helping persons stop the use of tobacco products.

## SECURITY/POLICE

We take your safety seriously. To ensure the continued health and safety of Calhoun students and employees, we must all consider our own security, as well as the security of others, a priority when on campus. Should a crime occur on campus, Calhoun strongly encourages you to report this crime immediately to the College's Campus Security/Police Department by calling 256-306-2575. For emergencies only call 256-306-2911 on the Decatur campus or 256-890-4711 on the Huntsville campus. The office of the Director of Calhoun Police is located in building #6 across from the Machine Tool building on the Decatur campus.

Huntsville Police Department officers are located in the lobby at the Huntsville campus.

Calhoun Community College is proud of its historically safe campus. In an effort to promote awareness and enhance safety, we would like to inform you of our campus crime disclosure report. Should you have any questions or suggestions regarding campus safety, please contact the campus police at 256-306-2574. If an emergency, call 256-306-2911.

### Calhoun Community College Campus Crime Statistical Disclosure Report

Crime	2012 DEC	2012 HSV	2013 DEC	2013 HSV	2013 ACA	2014 DEC	2014 HSV	2014 ACA
Murder	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0
Sex Offenses:								
Forcible	0	0	0	0	0	0	0	0
Non-Forcible	0	0	0	0	0	0	0	0
Robbery	0	0	0	0	0	0	0	0
Aggravated Assaults	0	0	0	0	0	0	0	0
Burglary	0	0	0	0	0	0	0	0
Breaking & Entering								
Motor Vehicle	5	3	2	13	0	1	3	0
Arrests	2	0	2	0	0	0	1	0
Motor Vehicle Thefts	0	2	0	1	0	0	1	0
Liquor Law Violations	0	0	0	0	0	1	1	0
Drug Violations	1	0	0	0	0	2	2	0
Weapons Violations	0	1	0	0	0	0	0	0
Criminal Mischief	8	3	0	2	0	0	2	0
Thefts	21	12	11	8	0	7	3	1
Harassment	9	4	7	3	0	6	1	0
Auto Accidents	12	15	19	9	0	14	3	0
Leaving Scene of Accident	2	8	3	2	0	3	5	0
Public Intoxication	0	0	0	0	0	0	0	0
Property Damage	0	1	1	3	0	4	0	0
Trespassing	2	1	1	2	0	3	9	0
Disorderly Conduct	5	5	1	1	0	4	1	1
Hate Crime	0	0	0	0	0	0	0	0
Domestic Violence	0	0	0	1	0	0	0	0
Medical Calls	0	12	9	6	0	14	12	0

## STUDENT IDENTIFICATION CARDS

All students enrolled at Calhoun Community College are required to have in their possession a valid Student ID card for general identification purposes and to present it upon demand when requested by a school official. The Student ID card is valid for each semester of the student's attendance. Students ID cards are issued during the first two weeks of each semester for new and transferring students. Replacement ID cards for returning students can be made at a cost of \$20.00. Replacement cost cannot be charged to student accounts and must be paid in cash. The ID card can be used for (1) book buying (campus bookstore only), (2) library book checkout when accompanied by a completed Library Borrower Application, (3) access to learning labs, (4) entrance into college-sponsored activities, (4) check cashing, and (5) student discounts. Student ID pictures are taken in room 201 of the Chasteen Student Center, and also the Huntsville campus. Check the Calhoun website for specific schedules each semester.

## MOTOR VEHICLE REGISTRATION

All students driving any type of motor vehicle on campus must secure and properly affix an official college parking decal to the vehicle regardless of the location of classes. Parking decals are available at the switchboard at the Decatur campus or the Security Office at the Huntsville campus. For students who have received disability access license plates or disability access placards for Disability Access Parking Privileges under Alabama law and who wish to use College disability access parking spaces, special disability access parking placards can be obtained on the second floor of the Chasteen Student Center, Room 220G upon appropriate documentation by the respective student of having received Disability Access Parking Privileges. Decals may also be obtained at the Huntsville Campus Security Desk. In the interest of safeguarding designated disability access parking spaces from misuse by persons who are not properly entitled to use those spaces, the use of disability access parking spaces will be only permitted for those cards that display both a College disability access decals and either a disability access license plate or a disability access placard.

## HANDICAP PARKING POLICY

Eligibility to access available handicap parking on campus requires that a student, faculty or staff member show proof that they are the legally registered recipient of the state issued handicap parking placard. A valid Calhoun ID along with a receipt, similar to a tag receipt from the Department of Motor Vehicles, will be required to verify that the faculty, staff, or student is the registered user of the handicap placard or handicap tag and must be presented to the Disability Services Office. Students must also show a current (paid) schedule. The Calhoun handicap parking placard must be displayed on the rear-view mirror of the eligible vehicle when parked on campus. The handicap parking areas will be monitored. Fines for handicap parking violations are \$50.00.

## ABANDONED VEHICLES

If a vehicle is left unattended or is left in the same place for more than ten (10) days, the vehicle will be considered abandoned and will be towed at the owner's expense. If a vehicle is illegally parked (for example, blocking another vehicle that is legally parked), the illegally-parked vehicle will be towed at the owner's expense.

### PARKING/TRAFFIC CITATION APPEALS COMMITTEE

This is a three-member committee made up of students appointed by the Student Government Association. It is charged with the responsibility of hearing and ruling on each case in which a student appeals having received a parking ticket. The committee meets each Friday at 11:00 a.m. in the Student Activities Office, Decatur campus. Parking appeals at the Huntsville campus should be made to the Director of that campus.

### SEX OFFENDER REGISTRATION

Registered Sex Offenders must provide a copy of their Form 47 (information submitted to the registering law enforcement agency) along with a copy of their schedule for that semester to the Calhoun Community College Police Department. The Decatur Campus Police Dept. is located in Building #6 and the Huntsville Campus Police Dept. is located at the Front Entrance of the Main Building.

### RESTROOM POLICY

Restrooms and locker rooms are designated separately for women, men and gender neutral. Gender neutral restrooms are identified as such and may be used by either gender. Any individual using the other biological gender's restroom or locker room shall be subject to discipline. Gender neutral restrooms are available and located in the following locations:

#### Calhoun Community College Single Use Bathrooms

1. ATC - Both a men's and women's single use bathroom off the hallway at the east end of the High Bay.
2. HS - Unmarked single use bathroom on the first floor next to the Men's restroom.
3. CAT - No single use restrooms.
4. Spa Management - one Staff/Faculty single use bathroom.
5. IT - 2 men and 1 women single use bathrooms.
6. Campus Police - Both men's and women's single use bathrooms.
7. Noble Russell - One single use unisex bathroom off the dressing room off of the main TV suite.
8. CBIT - One single use bathroom off of the upholstery lab. Both a men's and women's single use bathroom in the NCCER training lab.
9. Testing Center/Adult Education - None.
10. Energy Technology - One single use bathroom.
11. Industrial Technology - One single use women's. Aviation - One single use women's.
12. Machine Tool - One single use unisex.
13. MSA - One unmarked single use (Family) bathroom off of 1<sup>st</sup> floor vending.
14. Student Center - None.
15. Harris Hall - Single use bathrooms on every floor inside faculty suites only.
16. Maintenance - One single use bathroom.
17. Wallace - None.
18. Library - Both men's and women's single use bathrooms.
19. Fine Arts - None.
20. Gym - One single use bathroom/shower/locker room.
21. Ball Field Concessions - None.

22. ACA - None.

23. Huntsville - Two unmarked single use men's and women's bathrooms on the main floor inside the staff mailroom/lounge. Two unmarked single use men's and women's single use bathrooms on the lower level inside the faculty lounge.

### Gender neutral locker rooms are located in the following:

There is a single use locker room located in the gym.

### WEAPONS POLICY

No person shall keep, use, possess, display, or carry any rifle, shotgun, handgun, knife, bow and arrow, or other lethal or dangerous weapons or devices capable of casting a projectile by air, gas or explosion, or mechanical means on any property or in any building owned or operated by Calhoun Community College. Faculty and staff may not possess firearms on campus or while otherwise engaged in duties associated with their employment, except as written in Alabama law. Realistic facsimiles of weapons are also not allowed.

If an instructor approves such items to be demonstrated for class purposes only, the instructor and student must obtain permission from Calhoun Police.

Any such person seen with or using such weapons on campus will be subject to disciplinary and criminal charges.

Pursuant to state board policy 511.01, Calhoun Community College adheres to the following:

**Firearms are prohibited on campus or any other facility operated by the College. Exceptions to this policy are: Law enforcement officers legally authorized to carry such weapons who are officially enrolled in classes or are acting in the performance of their duties or an instructional program in which firearms are required equipment.** If the off-duty officer is a student, he/she must notify campus police once a semester. A weapon is prohibited from any type of hearing for personal business.

## ADMISSIONS INFORMATION

Calhoun Community College maintains an admissions policy that provides higher education for individuals who meet minimum admission requirements as set forth by the Alabama Community College System (ACCS). The Office of Admissions and Records is responsible for interpreting and implementing ACCS policy as well as federal, state, and local laws and policies regarding admission of students to the College and maintenance of academic records.

Admission to the College does not guarantee entrance to a particular course or program. Some programs have specific admission requirements. Requirements for admission into certain programs, such as Health programs, are found within the "Programs of Study" section of the catalog.

### FIRST TIME ADMISSION

All students must submit the required documentation listed below in order to be considered for admission. Applications and forms are accessible from [www.calhoun.edu/admissions](http://www.calhoun.edu/admissions). In order for transcripts to be considered official, they must be submitted to the Office of Admissions and Records directly from the issuing institution/agency, or if submitted by the student in a sealed envelope from the issuing party.

## Required Admission Documentation:

- Calhoun Community College application for admission
- One of the following forms of primary identification:
  - Unexpired Alabama driver's license or instruction permit
  - Unexpired Alabama identification card
  - Unexpired U.S. passport
  - Unexpired U.S. Permanent Resident Card
  - Resident Alien Card – Pre-1997
  - Unexpired driver's license or instruction permit from another state or possession that verifies lawful presence, dated 2000 and beyond
  - U.S. Alien Registration Receipt Card (Form I-151) prior to 1978
  - BIA or tribal identification card with photo
  - I-797 Form with expiration date along with photo identification
- Signature page
- Official high school transcript with posted graduation date or GED certificate with passing scores
- Official college transcripts (if applicable)
  - Students who have achieved a minimum of a Baccalaureate degree from an accredited college or university are only required to submit an official transcript from the degree granting institution unless seeking a degree from Calhoun Community College.
  - An evaluation of transcripts for transfer credit will not be conducted until official transcripts from all previously attended post-secondary institutions have been received in the Office of Admissions and Records.

## READMISSION

Former Calhoun students who have not been in attendance within one calendar year will be required to submit a new application for admission. If students have attended college elsewhere during this period, official transcripts must be submitted to the Office of Admissions and Records. Calhoun students who wish to enroll under a different student type (i.e., Dual Enrollment student who wishes to enroll as a Freshman upon high school graduation), an updated application for admission must be submitted prior to the term of intended enrollment.

## ADMISSION STATUS

There are two types of admission statuses: unconditional and conditional.

- **Unconditional status:** Students who have submitted all required documentation will be admitted under unconditional status.
- **Conditional status:** Students who have not submitted official transcripts may be admitted under conditional status. Failure to provide documentation by the end of the first semester of enrollment will prevent a student from future registration and official transcript release. ***Students with a conditional admissions status are not eligible for federal financial aid.***

## ADMISSION CLASSIFICATIONS & ELIGIBILITY INFORMATION

**First-Time College Student:** A student who has not previously attended any college after high school graduation or completion of a GED is considered a first-time freshman.

For unconditional admission and to be classified as degree eligible, applicants must have on file at the institution a completed application for admission, signature page, primary form of identification, and one of the following:

- Official high school transcript with posted graduation date from a public, private, or home school program equivalent to the Alabama High School Diploma, as defined by the Alabama State Board of Education
- Official GED certificate issued by the appropriate state education agency

First-time college students may be conditionally admitted pending receipt of official final high school transcripts. Failure to submit official transcript with posted graduation date by the end of the first semester of enrollment will prevent future registration and release of official Calhoun transcripts. First-time students with a conditional admission status will not receive federal financial aid.

**Transfer Student:** A student who has attended another college or university prior to enrolling at Calhoun is considered a transfer student.

For unconditional admission and to be classified as degree eligible, applicants must have on file at the institution a completed application for admission, signature page, primary form of identification, official high school transcript or GED certificate, and official transcripts from all previously attended post-secondary institutions.

Transfer students may be conditionally admitted pending receipt of official transcripts. Failure to submit official transcripts by the end of the first semester of enrollment will prevent future registration and release of official Calhoun transcripts. Transfer students with a conditional admission status will not receive federal financial aid.

A transfer student who is not seeking a degree from Calhoun Community College and has earned a Bachelor's degree from a regionally accredited college or university is only required to submit an official transcript from the degree granting institution. If a student with a Bachelor's degree wishes to have the transcript evaluated for transfer credit, official transcripts from all previously attended colleges and universities must be submitted to the Office of Admissions and Records prior to the evaluation.

## Initial Academic Status of Transfer Students

1. An initial academic status will be determined once all official transcripts are received and reviewed by Admissions and Records staff. Reporting of incomplete or false information on the application for admission may result in the immediate removal from classes and forfeiture of all tuition, fees, and other monies.
2. A transfer student whose cumulative grade point average (GPA) at the transfer institution(s) is at least 2.0 on a 4.0 scale will be admitted on clear academic status.
3. A transfer student whose cumulative GPA at the transfer institution(s) is less than 2.0 on a 4.0 scale but has not been placed on Academic Suspension or Academic Dismissal will be admitted on Academic Probation. The Calhoun

transcript will be annotated to read ADMITTED ON ACADEMIC PROBATION.

4. A transfer student who has been academically suspended or dismissed from another regionally accredited post-secondary institution may be admitted only after following the appeal process established for "native" students. Calhoun Community College requires that the applicant submit a written appeal to the College Admissions Committee along with all official transcripts. No appeals will be considered on or after the first official class day for the term in which a student is applying. Transfer students admitted on appeal will be placed on Academic Probation. The Calhoun transcript will be annotated to read ADMITTED UPON APPEAL – ACADEMIC PROBATION.
5. Transfer students admitted on academic probation retain that status until 12 credit hours have been attempted at Calhoun Community College. If the cumulative GPA at Calhoun is below 1.50 at the conclusion of 12 attempted hours, the student will be placed on academic suspension for at least one semester. More stringent guidelines may be placed on students by the College Admissions Committee when written appeals are approved.

## General Principles for Transfer of Credit

1. Transfer credit will be evaluated and recorded only upon receipt of all official transcripts from all previously attended colleges and universities. Students will be notified through email communication from the Office of Admissions and Records once the official evaluation is complete. A review of records by advisors, faculty, or other staff for advising purposes does not constitute an official evaluation.
2. Coursework transferred or accepted for credit toward an undergraduate program must represent collegiate coursework relevant to the formal award with course content and level of instruction resulting in student competencies at least equivalent to those of students enrolled in the institution's own undergraduate formal award programs.
3. A course completed at other regionally accredited post-secondary institutions with a passing grade (C minimum required in Composition courses) will be accepted for transfer as potentially creditable toward graduation requirements.
4. A transfer grade of "D" will only be accepted when the transfer student's cumulative transfer GPA is 2.0 or above. Regardless of the GPA, a "D" in English Composition courses will not be accepted as transfer credit. Please note that some programs/courses require minimum grades of "C", thus a "D" will not transfer.
5. Transfer course grades are not calculated into a student's grade point average for any purpose, including graduation or honors consideration.
6. Credit may be extended based on a comprehensive evaluation of demonstrated and documented competencies and previous formal training. Please refer to the section on Credit from Nontraditional Sources in this catalog for additional information.
7. The criteria for awarding credit for work completed in foreign colleges and universities will be the same as for other institutions within the United States. Students wishing to receive transfer credit for such foreign study must provide an English translation and a detailed course-by-course evaluation report. The reports must outline recommendations for awarding specific credit for specific courses. Students must request an official course-by-course evaluation from a National Association of Credential Evaluation Services (NACES) approved agency. For a comprehensive list of approved agencies, please visit [www.naces.org](http://www.naces.org).

**Transient Student:** A student who is currently enrolled at another college

or university and seeks credit that will transfer back to her or her home institution is considered a transient student. Transient students are temporary students who generally only attend Calhoun Community College for one semester.

For admission, applicants must have on file at the institution a completed application for admission, signature page, primary form of identification, and a transient letter of permission listing approved courses. Transient letters must be submitted prior to registration for each semester a student attends Calhoun Community College. Any transient student failing to provide appropriate information may be administratively withdrawn.

Transient students are considered non-degree seeking and are not eligible for federal financial aid.

**High School Student:** A secondary education student who is earning college credit while still in high school is considered either a Dual Enrollment or Accelerated student. Please see the Dual Enrollment and Accelerated High School section of this catalog for further information.

**International Student:** A student who is a citizen of another country.

Calhoun Community College accepts international students seeking an F-1 international student visa who meet the academic, linguistic, and financial requirements necessary for admission into the College.

Non-citizens of the United States who have been granted permanent residency status, deferred action status for childhood arrivals, or possess a valid United States Visa that permits post-secondary study as approved by the United States Citizenship and Immigration Services are eligible to be considered for admission to the College as well. Students not seeking a F-1 visa exempt from the financial documentation requirement. International students are required to pay the out-of-state tuition rate.

For unconditional admission and to be classified as degree eligible, applicants must have on file at the institution a completed application for admission, signature page, primary form of identification, and the following documents:

- Official transcripts/leaving certificates from secondary school. The secondary school requirement must document that the student has the equivalent to a U.S. high school diploma.
  - Official transcripts from all previously attended colleges and universities, if applicable, for transfer students.
- In addition to the official foreign transcripts, all documents must be translated and evaluated (course-by-course for college transcripts) by a NACES approved evaluation agency. For a comprehensive list of agencies, please visit: [www.naces.org](http://www.naces.org).
- Proof of English proficiency
    - Students submitting official TOEFL scores must meet the following minimum: 500 (Paper-based test), 173 (Computer-based test, or 61 (Internet-based test). The TOEFL exam must have been completed no more than 3 years prior to the term of application.
    - Students submitting official IELTS (International English Language Testing System) scores must place within the following range: 5.5 – 6.0. The IELTS exam must have been completed no more than 3 years prior to the term of application.
    - Exceptions to the English proficiency requirement include students who have graduated from a regionally accredited United States high

school, a transfer student who has successfully completed ENG 101 with a grade of C or higher at a regionally accredited United States college or university, or a citizen of an English speaking country that has been granted an exemption to the testing requirement. Please contact the International Student Advisor for a list of countries included in the exemption.

- Signed and notarized financial sponsorship document along with official original bank statements in the sponsor's name documenting evidence of at least \$17,800 U.S. dollars or the equivalent for the 2016-2017 academic year. The financial documentation includes the approximate cost of tuition, fees, books, and living expenses for one academic year. Official financial statements must be dated within 3 months of the time of application for admission.
- Completed health forms signed by a physician. The International Student Advisor will provide a copy of the necessary health form to applicants for completion.

Initial entry students will be issued a Form I-20 upon successful admission into the College. Transfer students who are enrolled in a United States college or university must submit a completed Transfer Clearance Form signed by the International Student Advisor. Students must be in valid F-1 status at the current college in order to be eligible for admission to Calhoun.

F-1 students must submit documentation demonstrating adequate health and life insurance including coverage for medical repatriation and evacuation expenses. Both forms of coverage must be maintained during enrollment at Calhoun Community College.

**Audit Students:** A student who registers for credit courses on a non-credit basis.

For admission, students must comply with the College admission standards as outlined in the requirements for first-time, transfer, or returning students.

Auditors will under no circumstances receive credits applicable to degree requirements. Tuition and fees for courses audited are the same as those for courses taken for credit. Students may not use federal financial aid for courses that are audited. Health science courses are not eligible to be audited by students at the College, and the appropriate pre-requisite requirements must be met for students wishing to audit a class.

Students may not change from "credit" to "audit" or from "audit" to "credit" after the Drop/Add period is over for the term.

#### **SENIOR CITIZENS UNDER THE SENIOR ADULT SCHOLARSHIP PROGRAM**

Senior citizens 60 years of age or older may be eligible for a tuition waiver if they qualify for the Senior Adults Scholarship Program.

Applicants must meet the following conditions:

- Must comply with the College admission standards as noted in the Admission Classification & Eligibility Information portion of this catalog.
- Must be Alabama residents.
- Must be 60 years of age or older by the beginning of the semester in which the student is seeking the scholarship.
- Must enroll in credit based courses. Workforce Solutions or Adult Education courses are not eligible for this scholarship.

Students are responsible for any fees or other charges applied to the general student body. Senior citizens granted a tuition waiver under the Senior Adult Scholarship Program may receive the tuition waiver only one time per course.

Enrollment under the Senior Adult Scholarship Program is restricted to a space available basis. A course will not be expanded beyond the maximum number allowed to accommodate a student attending under the Senior Adult Scholarship Program.

#### **ADMISSION TO COURSES NOT CREDITABLE TOWARD AN ASSOCIATE DEGREE**

Calhoun Community College offers many non-credit programs and activities through the Workforce Development division. Each unit establishes admission requirements for programs and activities. For further information regarding non-degree programs, please visit [www.calhoun.edu/workforce-development](http://www.calhoun.edu/workforce-development). Limestone Correctional Facility programs may have different admission requirements based on program eligibility.

#### **RESIDENCY AND TUITION CLASSIFICATION**

Residency status must be determined upon admission. In determining resident student status for the purpose of charging tuition, the burden of proof lies with the applicant for admission. The institution may request proof that the applicant meets the stipulations for in-state tuition.

A student's residency status will be presumed for one full academic year of his/her most previous enrollment unless there is evidence that the student subsequently has abandoned resident status (for example, registering to vote in another state). A student failing to re-enroll within one full academic year must establish eligibility upon re-enrollment.

#### **IN-STATE TUITION**

The in-state tuition rate is established by the Alabama Community College System.

In order to be eligible for in-state tuition as a resident student, an applicant must meet one of the following criteria:

1. Has resided in the State of Alabama for at least 12 continuous months immediately preceding application for admission.
2. Is a minor whose parents, parent, or legal guardian has resided in the State of Alabama for at least 12 continuous months immediately preceding application for admission. If the minor's parents are legally separated or divorced, residence will be determined by the residency of the parent to whom the court has granted custody
  - Minor Dependent: A single individual under 19 years of age and a married individual under 18 years of age, but excludes an individual whose disabilities of non-age have been removed by a court of competent jurisdiction for a reason other than establishing a legal residence in Alabama.
  - Supporting Person: Either or both parents of the student, if the parents are living together, or if the parents are divorced or living separately, then either the parent having legal custody or, if different, the parent providing the greater amount of financial support. If both parents are deceased, or if neither has legal custody, supporting person shall mean, in the following order: the legal custodian of the student, the guardian, and the conservator.
3. Determination of eligibility for in-state tuition shall be made by the institution by evaluating the presence or absence of connections with the State of Alabama. This evaluation shall include the consideration of

the following connections:

- Payment of Alabama state income taxes as a resident.
  - Ownership of a residence or other real property in the state and payment of state ad valorem taxes on the residence or property.
  - Full-time employment in the state.
  - Residence in the state of a spouse, parents, or children.
  - Previous periods of residency in the state continuing for one year or more.
  - Voter registration and voting in the state; more significantly, continuing voter registration in the state that initially occurred at least one year prior to the initial registration of the student in Alabama at a public institution of higher education.
  - Possession of state or local licenses to do business or practice a profession in the state.
  - Ownership of personal property in the state, payment of state taxes on the property, and possession of state license plates.
  - Continuous physical presence in the state for a purpose other than attending school, except for temporary absences for travel, military service, and temporary employment.
  - Membership in religious, professional, business, civic, or social organizations in the state.
  - Maintenance in the state of checking and savings accounts, safe deposit boxes, or investment accounts.
  - In-state address shown on selective service registration, driver's license, automobile title registration, hunting and fishing licenses, insurance policies, stock and bond registrations, last will and testament, annuities, or retirement plans.
4. Has graduated from an Alabama high school or has obtained a GED in the State of Alabama within three years of the date of his/her application for admission in accordance with the requirements set forth in the Code of Alabama.

**A non-resident student**, one who does not meet the standard of having resided in the State of Alabama for at least 12 continuous months immediately preceding application for admission, shall be charged the in-state tuition rate established by the State Board of Education if the student satisfies one of the following criteria, or, if the student is a dependent (as defined by the Internal Revenue Code), then the person supporting the student satisfies one of the following criteria under the following circumstances:

1. The student or the person(s) supporting the student is a full-time permanent employee of the institution at which the student is registering.
2. The student or the person(s) supporting the student can verify full-time permanent employment in Alabama and will commence said employment within 90 days of registration.
3. The student or the person(s) supporting the student is a member of the United States military on full-time active duty stationed in Alabama under orders for duties other than attending school, as required by ACT 2013-423.
4. The student or the person(s) supporting the student is an accredited member of a consular staff assigned to duties in Alabama.
5. The student or the person(s) supporting students resides in one of the following Tennessee counties: Bedford, Coffee, Franklin, Giles, Lawrence, Lincoln, Marion, Marshall, Maury, Moore, or Wayne.

### OUT-OF-STATE TUITION

The out-of-state tuition rate is determined by the Alabama Community College System. Any applicant for admission who does not meet the residency requirements for in-state tuition shall be charged tuition at 2.00

times the in-state tuition rate, rounded up to the nearest dollar.

Students initially classified as ineligible for resident tuition will retain that classification until they provide documentation that they are eligible for in-state tuition. Requests for in-state tuition must be submitted to the Office of Admissions and Records and the Registrar will determine whether or not a student is eligible to pay the in-state tuition rate.

International students must pay the out-of-state tuition rate.

## DUAL ENROLLMENT/DUAL CREDIT FOR HIGH SCHOOL STUDENTS

The Dual Enrollment/Dual Credit program allows high school students the opportunity to receive both high school and college credit. The program is restricted to qualified students in Alabama high schools and home schools which have signed a working agreement with Calhoun Community College.

### Student Eligibility:

Criteria for student eligibility are developed by each individual school system and may be more restrictive than the minimum criteria that follows:

1. The student must have a 2.5 GPA or higher in completed high school courses;
2. The student must have written approval (application and approval form available online at [www.calhoun.edu](http://www.calhoun.edu)) of his/her counselor and principal. In addition to the approval form the student must provide a high school transcript – official or unofficial; and
3. The student must be in grade 10, 11, or 12.

### Available Courses:

Determination of the equivalencies of Calhoun Community College coursework is at the discretion of the high school system. In some cases, one 3-semester hour course equates to a full unit at the high school. However, a cross-walk of eligible courses has been developed to ensure that courses taken at the college warrant the awarding of secondary credit for post-secondary/college coursework. Students should contact their high school counselor for information about specific course equivalencies.

Eligible courses include any college-level courses in English, Foreign Languages, Mathematics, Science, or Social Science; any career/technical courses; or any other courses agreed upon by the school system and the college. Students must meet the course prerequisites prior to enrollment. This program does not include physical education courses, nor any courses taken on an audit basis.

Prerequisites may be met by completion of the approved college placement exam and/or minimum levels on the ACT or SAT in English and Mathematics.

Students in the Dual Enrollment/Dual Credit program may take their coursework at any Calhoun campus or through Distance Learning. Students should consult the College's current course schedule or contact the Calhoun Dual Enrollment office for information on the dates, times and locations of courses. Email [gwendlyn.baker@calhoun.edu](mailto:gwendlyn.baker@calhoun.edu) or [heath.daws@calhoun.edu](mailto:heath.daws@calhoun.edu) for more information. Calhoun also offers courses at selected high school campuses. Information is available through local high school counselors or from the Dual Enrollment office: 256-306-2665 or 256-306-2671.

**Traditional financial aid is not available for students enrolled under the Dual Enrollment/Dual Credit program.** Federal government regulations require students to have a high school diploma or GED to qualify for any form of financial aid. However, Alabama families who are recipients of the fully-funded PACT Program may apply these funds towards Dual Enrollment/Dual Credit courses.

## Dual Enrollment Technology Scholarships:

Funds are available through a Workforce Development grant to provide scholarships to Dual Enrollment students in specific business and technical programs. These Dual Enrollment scholarship funds are available to eligible high school students participating in approved technology programs offered by Calhoun Community College.

The program must be identified as a High-Wage/High-Demand program by the Alabama Community College System. Programs designated as high priority for scholarship funding include Advanced Manufacturing (Aerospace, Air Conditioning & Refrigeration, Robotics, Design Drafting, Electrical Technology, Industrial Maintenance, Machine Tool Technology, Process Technology, Renewable Energy and Welding); Computer Information Systems; Emergency Medical Services; Nursing Assistant; and Physical Therapist Assistant.

Programs identified as secondary priority for scholarship funding include Accounting Technology, Child Development, Computer Graphics and Visual Communication.

## Student Eligibility for Dual Enrollment Scholarships:

**The student must be in the 11th or 12th grade, have a 2.5 GPA or higher, and have approval from the high school principal and counselor or the home school director.** All students receiving scholarships must meet established placement criteria as determined by appropriate ACT, SAT or placement test scores. Approval from secondary school officials indicates that the student has demonstrated both academic readiness and social maturity.

**Each student who receives a Dual Enrollment Technology Scholarship must have declared a technical program of study and only those courses required for that program of study will be eligible for scholarship funds.**

Dual Enrollment technology scholarship funds may be used to cover not only the required technical courses but required academic courses as well. Academic courses must be taken concurrently with the technical courses.

Students who plan to enter a health program such as nursing or physical therapy may use the scholarship funds to cover Anatomy and Physiology I and II (BIO 201 and BIO 202). Additional concurrent academic enrollment is not allowed for these students.

Most of Calhoun's manufacturing technology programs are taught on the Decatur campus. In addition, several high schools offer after-school classes in Drafting, Machine Tool Technology and Welding. Computer Information Systems is taught on both the Huntsville and Decatur campuses and through distance learning. Emergency Medical Services (EMS) courses are taught on Calhoun's Decatur campus, at area high schools and at the HEMS Station 2 in Huntsville.

Dual Enrollment Technology scholarship funds may be used to cover tuition, textbooks and supplies depending on the needs of the individual student, the requirements of the technical and academic classes and availability of funds.

**The scholarship funds are contingent upon allocations by the Alabama Legislature. Calhoun has received technology scholarship grants since the program was initiated by the state in 2008, however future grant awards are not guaranteed and will depend on availability of funding through the Alabama Workforce Development program.**

**The Dual Enrollment Technology Scholarship program is not designed for academic transfer but to allow students to begin earning credits towards a two-year technical degree and prepare them to enter the workforce.** To facilitate this, Calhoun has developed a group of short term certificates in Advanced Manufacturing and Computer Information Systems. Students in these programs can earn a college credential while continuing to work towards their A.A.S. degree.

## Scholarship Application:

In order to apply for a scholarship, the student must be accepted by Calhoun Community College. The Dual Enrollment Scholarship Application is available to download along with the application for admissions, the required Dual Enrollment Approval Form, and Signature Page. The link to these documents can be found at: <http://www.calhoun.edu/admissions/dual-enrollment-dual-credit>.

## Short Term Certificates

The following short term technology certificates are embedded in Calhoun technology program and are eligible for Dual Enrollment Scholarships. These certificates are available to all Calhoun students and provide a pathway that allows high school students to work towards their chosen A.A.S. degree, and at the same time, graduate from high school with a credential that could potentially lead to employment.

**ADM 111** (Manufacturing Safety Practices) is **required** for all short-term Advanced Manufacturing and Dual Enrollment technology scholarship students must take this course either alone, or concurrently with other courses, during their first semester in the program.

## Technology Certificates

### AIR CONDITIONING AND REFRIGERATION

Course Prefix & Number	Course Title	Credit Hours
<b>ADM 104</b>	Thermal Electrical Principles	<b>3</b>
<b>ADM 111</b>	Manufacturing Safety Practices	<b>3</b>
<b>ACR 113</b>	Refrigeration Piping Practices	<b>3</b>
<b>ACR 119</b>	Fundamentals of Gas Heating	<b>3</b>
<b>ACR 120</b>	Fundamentals of Electrical Heating	<b>3</b>
<b>Total Credit Hours</b>		<b>15</b>

### DESIGN DRAFTING TECHNOLOGY

Course Prefix & Number	Course Title	Credit Hours
<b>ADM 111</b>	Manufacturing Safety Practices	<b>3</b>
<b>DDT 111</b>	Fundamentals of Drafting	<b>3</b>
<b>DDT 124</b>	Basic Technical Drafting	<b>3</b>
<b>ADM 107</b>	CAD Concepts	<b>3</b>

*Electives: Pick one of the following:*

## GENERAL INFORMATION

<b>DDT 109</b>	Introduction to BIM	<b>3</b>
<b>DDT 144</b>	Basic 3D Modeling	<b>3</b>
<b>Total Credit Hours</b>		<b>15</b>

### ELECTRICAL TECHNOLOGY

Course Prefix & Number	Course Title	Credit Hours
<b>ADM 111</b>	Manufacturing Safety Practices	<b>3</b>
<b>ELT 108</b>	DC Fundamentals	<b>3</b>
<b>ELT 109</b>	AC Fundamentals	<b>3</b>
<b>ELT 110</b>	Wiring Methods	<b>3</b>
<b>ELT 114</b>	Residential Wiring	<b>3</b>
<b>Total Credit Hours</b>		<b>15</b>

### INDUSTRIAL MAINTENANCE/INSTRUMENTATION

Course Prefix & Number	Course Title	Credit Hours
<b>ADM 111</b>	Manufacturing Safety Practices	<b>3</b>
<b>ELT 108</b>	DC Fundamentals	<b>3</b>
<b>ELT 109</b>	AC Fundamentals	<b>3</b>
<b>ILT 104</b>	Industrial Instrumentation	<b>3</b>
<b>ILT 114</b>	Instrumentation Operation & Calibration	<b>3</b>
<b>ILT 214</b>	Control & Troubleshooting	<b>3</b>
<b>Total Credit Hours</b>		<b>18</b>

### MACHINE TOOL TECHNOLOGY

Course Prefix & Number	Course Title	Credit Hours
<b>ADM 111</b>	Manufacturing Safety Practices	<b>3</b>
<b>MTT 121</b>	Basic Blueprint Reading for Machinist	<b>3</b>
<b>MTT 138</b>	Milling Lab I	<b>3</b>
<b>MTT 147</b>	Introduction to Machine Shop I	<b>3</b>
<b>MTT 148</b>	Introduction to Machine Shop I Lab	<b>3</b>
<b>Total Credit Hours</b>		<b>15</b>

### PROCESS TECHNOLOGY

Course Prefix & Number	Course Title	Credit Hours
<b>ADM 111</b>	Manufacturing Safety Practices	<b>3</b>
<b>ADM 106</b>	Quality Control	<b>3</b>
<b>PCT 100</b>	Fundamentals of Process Technology	<b>3</b>
<b>PCT 115</b>	Instrumentation I	<b>3</b>
<b>PCT 105</b>	Process Tech I – Equipment	<b>3</b>
<b>PCT 220</b>	Process Tech II – Systems	<b>4</b>
<b>Total Credit Hours</b>		<b>19</b>

### RENEWABLE ENERGY

Course Prefix & Number	Course Title	Credit Hours
<b>ADM 111</b>	Manufacturing Safety Practices	<b>3</b>
<b>ELT 108</b>	DC Fundamentals	<b>3</b>
<b>ELT 109</b>	AC Fundamentals	<b>3</b>
<b>REN 105</b>	Renewable Technology Awareness	<b>1</b>
<b>REN 115</b>	Photovoltaic Systems	<b>3</b>
<b>REN 215</b>	Photovoltaic Systems Installation	<b>3</b>
<b>Total Credit Hours</b>		<b>16</b>

### WELDING TECHNOLOGY

Course Prefix & Number	Course Title	Credit Hours
<b>ADM 111</b>	Manufacturing Safety Practices	<b>3</b>
<b>WDT 108</b>	SMAW/Fillet Theory	<b>3</b>
<b>WDT 122</b>	SMAW/Fillet Lab	<b>3</b>
<b>WDT 110</b>	Blueprint Reading	<b>3</b>
<b>WDT 119</b>	GMAW/Flux Theory	<b>3</b>

<b>WDT 124</b>	SMAW/Flux Lab	<b>3</b>
<b>Total Credit Hours</b>		<b>18</b>

## Computer Information Systems & Cybersecurity

Calhoun's Computer Information Systems & Cybersecurity Dual Enrollment Pathway allows the high school student to complete a certificate in Computer Information & Cybersecurity as well as several courses required for the A.A.S. degree in Information Assurance & Cybersecurity. Students in this program will graduate from high school with a technical and academic foundation that can be completed at Calhoun Community College as well as a marketable credential. High school students enter the program in 11th or 12th grade. *In order to complete the program while still in high school students must begin the certificate in 11th grade.*

### 11<sup>TH</sup> GRADE

Class	College Credits	Term
<b>MTH 112</b> Pre-calculus Algebra (Junior Level Math)	3	Fall
<b>CIS 146</b> Microcomputer Applications	3	Fall
<b>SPH 106 or SPH 107</b> (Elective Credit HS)	3	Spring
<b>CIS 211</b> Principles of Information Assurance (Elective Credit HS) <sup>†</sup>	3	Fall

**Total College Credits During 11<sup>th</sup> Grade 12**

### 12<sup>TH</sup> GRADE

Class	College Credits	Term
<b>ENG 101</b> Freshman Comp 1*	3	Fall
<b>ECO 231</b> Principles of Macroeconomics	3	Fall or Spring
<b>CIS 214</b> Security Analysis (PEN Testing) <sup>†</sup>	3	Fall
<b>CIS 246</b> Ethical Hacking <sup>†</sup>	3	Spring
<b>CIS 282</b> Computer Forensics <sup>†</sup>	3	Spring

**Total College Credits During 12<sup>th</sup> Grade 15**

**Total College Credits Funded 27**

\*The student must pair this with ENG 102 or a high school literature component for a full high school English credit. ENG 102 may be taken at the college but is not eligible for scholarship funding.

Additional academics required for high school may be taken at the college but are not eligible for scholarship funding.

<sup>†</sup> These four classes complete the short-term Information Assurance & Cybersecurity Certificate.

## Accelerated High School Program

Calhoun Community College offers qualified high school students the opportunity to earn college credit while still in high school. This program differs from Dual Enrollment in that participating students receive college credit Only; no high school credit is awarded for course taken under the Accelerated High School program.

Students who attend accredited high schools must meet the criteria listed here:

1. The student must have successfully completed the 10th grade;
2. The student must provide certification each semester from the local principal and/or his/her designee that the student has a minimum cumulative "B" average and recommends the student for enrollment (the accelerated high school approval form can be found on the Dual Enrollment page at the Admissions link on our website: [www.calhoun.edu](http://www.calhoun.edu))
3. In addition to the approval form, the student must provide a high school transcript – official or unofficial;
4. The student must provide qualifying ACT or SAT scores;
5. The student may enroll only in postsecondary courses for which the high school prerequisites have been completed (for example: a student may not take English Composition until all required high school English courses have been completed).

Exceptions may be granted by the Chancellor for a student documented as gifted and talented according to the standards included in the State Plan of Exceptional Children and Youth. Exceptions may only apply to items 1 and 2 noted above.

Students who attend a non-accredited high school must meet additional criteria as listed below:

1. Comply with items 1, 2, and 3 as noted above.
2. Provide ACT scores with a composite of at least 16 or total Math and Critical Reading of 790 on the SAT.

## AUDIT STUDENTS

Auditors are students who register for credit courses on a non-credit basis.

- Calhoun Community College application for admission
- One primary form of identification (such as an unexpired government issued photo ID)
- Signature/residency form
- Official high school/GED transcript documenting graduation
- Official college transcripts from all previously attended institutions.

Note: Students who have achieved a minimum of a baccalaureate degree are only required to submit a transcript from the granting institution for admission to the college but may need to submit other transcripts for evaluation of transfer of credit.

Students may not audit any health science classes. Auditors will under no circumstances receive credits applicable to degree requirements. Tuition and fees for courses audited are the same as those for courses taken for credit. Students may not change from "Credit" to "Audit" or "Audit" to "Credit" after the Drop/Add period.

## SENIOR CITIZENS ATTENDING UNDER THE SENIOR ADULT SCHOLARSHIP PROGRAM

Senior citizens sixty (60) years of age or older may be eligible for a tuition waiver if they qualify for the Senior Adults Scholarship Program. Applicants must meet the following conditions:

1. They must comply with the college admission standards as noted earlier in this catalog under Admission, First-Time Students, Admission of Transfer Students or Former Students Applying for Readmission. Please refer to the appropriate section for details of admission requirements.

2. Must be Alabama residents.
3. Must be sixty (60) years of age or older.
4. Students must enroll for credit; non-credit enrollment is not allowed.

The student is responsible for any fees or other charges applied to the general student body. Senior citizens granted a tuition waiver under the Senior Adult Scholarship Program may receive the tuition waiver only one time per course. Any time a senior citizen repeats a course the student is responsible not only for fees but also for tuition.

Questions regarding admission and eligibility should be directed to the staff of the Admissions and Records Office or the Financial Aid Office.

NOTE: Senior citizen course enrollment under the Senior Adult Scholarship Program is restricted to a space available basis. A course will not be expanded beyond the optimal number to accommodate the enrollment of a senior citizen attending under the Senior Adult Scholarship Program.

## COLLEGE ADMISSIONS COMMITTEE

Students on academic suspension from another post-secondary institution must file a written appeal directly to the Director of Admissions/Records for submission to the College Admissions Committee. Appeals for admission should be submitted at least two (2) weeks before the first official class day of the term of intended enrollment. Decisions of the Admissions Committee are final.

## STUDENT RECORDS AND TRANSCRIPTS

### Family Educational Rights and Privacy Act of 1974

Calhoun Community College complies with the provisions of the Family Educational Rights and Privacy Act (FERPA) of 1974 as amended. FERPA sets forth the requirements pertaining to the privacy of student records. The law governs the release of educational records and access to the records.

### Student Records and FERPA

Students are notified that when a student attains the age of 18 or is attending an institution of postsecondary education, the permission or consent required of and the rights accorded to the parents of the student shall thereafter only be required of and accorded to the student. Therefore, a person other than the student requesting information on a student must submit written authorization from the student if the request is beyond the scope of authorized exceptions to the Act.

Responsibility for protection of the privacy of educational records rests primarily with the Director of Admissions/Registrar of the College. FERPA defines educational records to include records, files, documents, and other materials that contain information directly related to students and are maintained by an educational agency or institution with exceptions under the Act.

### Notification of Rights under FERPA

**FERPA affords students certain rights with respect to their educational records. The rights provided to students are:**

1. The right to review their educational records with certain exceptions. Students and former students may present a valid photo identification card and complete a written request form to review their records. The College may delay a record review up to 45 days if circumstances so dictate. Record reviews are conducted in the Office of Admissions & Records, Chasteen Student Center, Decatur Campus. Note: The College is not required to provide access to records of applicants for admission who are denied acceptance or, if accepted, do not attend.
2. The right to request the amendment of the student's educational records that the student believes is inaccurate or misleading. The student should submit to the Director of Admissions/Registrar a written statement which identifies the part of the record they want changed, why it should be changed, and any documentation to support the request. The student will be notified in writing of the decision to amend or not to amend. A student will be notified of a hearing procedure process they may initiate if the result of the student's request is not to amend their record.
3. The right to consent to disclosure of personally identifiable information contained in the student's educational records, except to the extent that FERPA authorizes disclosure.

Calhoun Community College considers the following to be directory information and may be released to individuals and/or agencies, institutions, etc., unless the student files a Do Not Release form in the Office of Admissions and Records:

### Directory Information

Name  
Address  
Telephone listing  
E-mail address  
Date and place of birth  
Major field of study  
Dates of attendance  
Enrollment status  
Class standing  
Degrees, honors, and awards received  
Most recent educational agency or institution attended

It should be noted that directory information is used to verify a student's enrollment with insurance agencies, banks, employers, etc., unless prohibited in writing by the Do Not Release Information form. Calhoun does not provide mailing lists unless required to do so by federal legislation (Solomon Amendment), a court directive, or as deemed appropriate by the President of the College or his agent.

FERPA has established rules that allow some personnel and agencies to have access to student's records without their written consent. The exception to the requirement of written consent includes authorized representatives of the following for audit and evaluation of federal and/or state supported programs or for enforcement of a compliance with federal legal requirements which relate to these programs:

- Comptroller General of the United States
- Attorney General of the United States
- Secretary of the Department of Education
- State and local educational authorities
- State and local officials to whom disclosure is specifically required by state statute adopted prior to November 19, 1974

- Veterans Administration officials
- Other school officials within the institution who have been determined by the institution to have a legitimate educational interest
- Officials of other institutions at which the student seeks or intends to enroll, provided the institution makes a reasonable attempt to inform the student of the disclosure, unless the student initiates the transfer or the annual notification of the institution includes a notice that the institution forwards education records to other institutions at which the student seeks or intends to enroll have requested the records. (Students are so notified.)
- Persons or organizations providing financial aid to students or determining financial aid decisions on the condition that the information is necessary to: 1) determine eligibility for aid, 2) determine the amount of aid, 3) determine the conditions for the aid, or 4) enforce the terms and conditions of the aid.
- Organizations conducting studies for or on behalf of education agencies or institutions to develop, validate, and administer predictive tests, to administer student aid programs, or to improve instruction. Such organizations are not to disclose personally identifiable information of students. Information must be destroyed when it is no longer needed for project.
- Accrediting organizations carrying out their accreditation functions
- Parents of a student who have established a student's status as a dependent according to IRS Code of 1986, Section 152
- Persons in compliance with a judicial order or lawfully issued subpoena provided that the institution makes a reasonable attempt to notify the student in advance of compliance. An institution may not provide advance notice of subpoena compliance if the subpoena is issued by a federal grand jury or for law enforcement purposes provided the subpoena orders the institution not to disclose the existence or contents of the subpoena. Our institution is not required to obtain a subpoena to produce education records of a student if the institution is sued by the student or takes legal action against a student. The records produced must be needed by the institution to proceed with legal action as plaintiff or to defend itself.
- Persons in an emergency situation if the knowledge of information, in fact, is necessary to protect the health or safety of students or other persons.
- Additional instances may occur where the college is required by law to release information. Contact the Registrar for the answers to specific questions.

In the event a student believes that FERPA rights were not met, he or she has the right to file a written complaint with The Family Policy Compliance Office, U.S. Department of Education, 600 Independence Avenue SE, Washington, DC 20202-4605.

## Transcript Policy

The transcript policy of Calhoun Community College includes the following items:

- In compliance with the Family Educational Rights and Privacy Act, Calhoun Community College does not release transcripts of a student's academic work, except upon the student's request.
- Official transcripts are sent to institutions, companies, agencies, etc., upon the student's request.
- Transcript Request Forms can be accessed within the "Applications and Forms" section of the Admissions website, are available in the Office of Admissions and Records on the Decatur and Huntsville Campuses, or may

be submitted through MyCalhoun for students who have access to the student portal.

- Transcript requests are processed as they are received. Processing times are longer at the end of each academic semester. To ensure timely delivery, requests should be made at least two weeks before the transcripts are needed.
- Transcripts will not be issued for persons who have financial, academic, or administrative obligations to the College.
- Completed Transcript Request Forms may be submitted to the Office of Admissions and Records in person or through the following methods:

**Mail**

Calhoun Community College  
Admissions and Records Office, Transcripts  
P.O. Box 2216, Decatur, AL 35609-2216

**Email**

transcripts@calhoun.edu

**Fax**

256-306-2941

The Office of Admissions and Records does not release official transcripts from other institutions. Requests for official transcripts from other institutions must be directed to the institution concerned.

## FINANCIAL INFORMATION

### CASHIER'S OFFICE HOURS (DECATUR CAMPUS)

Monday-Thursday	8:00 a.m. – 6:00 p.m.
Friday	8:00 a.m. – 11:00 a.m.

### CASHIER'S OFFICE HOURS (HUNTSVILLE CAMPUS)

Monday-Thursday	9:00 a.m. – 5:30 p.m.
Friday	8:00 a.m. – 11:30 a.m.

## TUITION AND FEES

The following information reflects the current tuition and fee schedule enacted by the Alabama Community College System Board of Trustees.

### TUITION

In-State Students	\$117.00 per credit hour
Out-of-State	\$234.00 per credit hour

### FEES

Technology Fee	\$ 9.00 per credit hour
Facility Renewal Fee	\$ 9.00 per credit hour
Special Building Fee	\$12.00 per credit hour
Bond Surety Fee	\$1.00 per credit hour
Access/Wellness	\$10.00 per student

Distance education classes will be charged the same rates and fees as above and a new access/wellness fee will be charged to every student each semester. This fee will be used to offset the cost of maintaining parking lots and equip

and manage the Wellness Center at the Decatur Campus and open one at the Huntsville Campus.

Students who register after classes begin may be charged a \$25 late registration fee. NOTE: Tuition and fees are subject to change without prior notice.

## PAYMENTS

Calhoun Community College accepts cash, check, debit and credit cards for payment of tuition and fees. Out-of-state, starter, and counter checks cannot be accepted.

A student can make online student account payments with a credit or debit card. Calhoun accepts Visa, Mastercard, Discover and American Express. The option to pay by credit or debit card is available online or in person only. Calhoun does not accept payments by phone. Once logged in, select the following:

Student

Student Account

Account Details for Term

Select the applicable term and click "Submit" Click "Pay Now" button

Enter the payment amount and click "Submit"

Complete the process by entering the requested card information

The payment confirmation will be emailed to the email address entered or it can be printed once displayed on the screen. If you do not receive a confirmation, the payment has failed and payment must be resubmitted. Any future refunds will be refunded to the debit or credit card up to the total amount paid.

Calhoun offers an interest-free, automatic payment plan through Nelnet Business Solutions. A non-refundable enrollment fee, depending on the number of payments, applies. The payment methods available are automatic bank payment (ACH) or credit/debit card. All down payments and enrollment fees are processed immediately. Regularly scheduled payments will process on the 5th of each month. For more information about the payment plan, you may access the payment plan details at [www.MyCollegePaymentPlan.com/calhoun](http://www.MyCollegePaymentPlan.com/calhoun).

## TUITION AND FEES REFUND POLICY

The tuition refund policy used by Calhoun Community College is mandated by the Board of Trustees of The Alabama Community College System. We are obligated to abide by the policy. The following are the basic guidelines:

Students wishing to withdraw from some or all of their classes must do so through MyCalhoun. Amounts that may be due students by the College as a result of dropping classes will be refunded as applicable after the 2nd week of the term as long as the student account balance is zero.

### Withdrawal Prior to Classes

A student who withdraws from classes prior to the first day of class will be refunded the total tuition and other institutional charges. The first class day is not the first day of the student's class, it is the first day of the semester.

### Partial Withdrawals during Drop/Add Period

Students who do not completely withdraw from the institution but drop a class during the regular drop/add period will be refunded the difference in tuition paid and the tuition rate applicable to the reduced number of hours, including fees appropriate to the classes dropped.

### Partial Withdrawals After Drop/Add Period

There is no refund due to a student who partially withdraws after the official drop/add period.

### Complete Withdrawal

A student who officially or unofficially withdraws completely on or after the first day of class but prior to the end of the third week of class will be refunded according to the withdrawal date.

### Administrative Fee

An administrative fee not to exceed 5% of tuition and other institutional charges shall be assessed for each withdrawal within the period beginning the first day of class and ending at the end of the third week of class.

### Pass Through Fees

Pass through fees such as e-book fees, music fees, and allied health and nursing fees will not be refunded after the official drop/add period.

### Before Classes Begin..... 100% Refund

#### During Drop/Add

Drops a class or classes but less than total..... 100%  
Drops ALL classes during drop/add ..... 75% of net

#### After Drop/Add (Withdrawal Refund Period)

Drops a class or classes but less than total..... No refund  
Total withdrawal during first week of classes ..... 75% of net  
Total withdrawal during second week of classes ..... 50% of net  
Total withdrawal during third week of classes ..... 25% of net  
Total withdrawal after third week of classes ..... No refund  
NET AMOUNT IS TUITION AND FEES LESS 5% ADMINISTRATIVE FEE.

For calculating refunds during the fall and spring sixteen-week terms, a "week" is defined as seven calendar days. Refunds of tuition for terms shorter than sixteen weeks, such as summer terms, mini-terms, split terms, and weekend terms will reflect a prorated week based on the number of days in the term.

Please refer to the Class Schedule of the applicable term on the Calhoun website for any updates to the refund schedule. The Tuition Refund Information and Schedule link provides specific refund dates.

## REFUND METHODS

When a refund is due to a student from any payment made on MyCalhoun, that refund will be credited back to the original method of payment (i.e. debit or credit card). If the refund is more than the original payment amount, the remaining balance will be issued through Higher One using the reimbursement method selected by the student.

Calhoun uses Bank Mobile for all refunds in an effort to get the money into the hands of students quickly and easily. All students are required to register with

Bank Mobile. During registration, students will select one of the following reimbursement methods:

- Direct deposit to an existing checking or savings account, or
- Calhoun One Card or
- Paper Check

The address information used by Bank Mobile is sent by Calhoun. If a student's address is incorrect, the information needs to be updated through MyCalhoun. Address changes are submitted by the College to Bank Mobile. Calhoun no longer prints refund checks, therefore the Business Office cannot hold checks for pick up.

### Timeframe for each Reimbursement Method

Bank Mobile Vibe Account - Same day funds released by Calhoun  
Direct Deposit to Checking or Savings Account - 2 - 3 Business Days  
Paper Check - 5-7 business days

### Steps to Register with Bank Mobile

First, look for the green envelope in the mail. Visit RefundSelection.com  
Enter your personal code to get started. Select the option that best fits you.

### ADDITIONAL FEES (SUBJECT TO CHANGE WITHOUT NOTICE)

Additional charges by the institution and not mentioned above include the following:

1. Returned check fee (by Alabama law) \$25\*
2. Parking traffic citations (variable, depending on type of citation); check student handbook
3. Tobacco use violation citation (see page 8)
4. Replacement costs for Library books checked out and not returned (variable).
5. Audit fees (auditing a course costs the same as taking the course for credit)

\*Negotiating a worthless negotiable instrument is a Class A misdemeanor. Pursuant to Alabama law (Act No. 80-200, S. 317), a person will be given 10 days to tender payment of the full amount of such instrument plus a service charge of not more than \$25. Unless this amount is paid in full within the specified time, the individual may assume that this instrument will be turned over to the proper authorities for criminal prosecution.

## FINANCIAL HOLDS

A financial hold will be placed on a student's account when there is any past due financial obligation to the College. These financial obligations can result from unpaid tuition, fees, books, library charges, parking fines, returned checks, or financial aid that must be returned by Department of Education policy. When there is a financial hold, the student will not be permitted to register for classes, receive transcripts, nor any other service from the college until the balance is paid in full or otherwise resolved.

## GENERAL EDUCATION DEVELOPMENT (GED) TEST FEE

Effective 1/1/14, those desiring to take the General Education Test at Calhoun Community College will be required to pay a \$120 fee. Call 256-306-2830 or 256-306-2610 for more information.

## RESIDENCY/OUT-OF-STATE AND INTERNATIONAL STUDENTS

Guidelines for determining "In-State" Tuition Rates

### I. ELIGIBLE FOR "IN-STATE" TUITION

A student or prospective student described in either part A or part B below may be eligible for "In-State" tuition rates. Non-resident students described in Part B must submit a written appeal with documentation to the College Registrar to obtain "in-state" tuition rates. The College Registrar will determine whether or not a student meets the criteria and the decision is final.

#### Resident Student

A Resident Student shall be charged the in-state tuition rate established by the Board of Trustees for the Alabama Community College System.

A Resident Student is an applicant for admission who is a citizen of the United States or a duly registered resident in the State of Alabama for at least 12 months immediately preceding application for admission, or whose non-estranged spouse has resided and had habitation, home, and permanent abode in the State of Alabama for at least 12 months immediately preceding application for admission.

In the case of minor dependents seeking admission, the parents, parent, or legal guardian of such minor dependent must have resided in the state of Alabama for at least 12 months immediately preceding application for admission. If the parents are divorced, residence will be determined by the residency of the parent to whom the court has granted custody.

**MINOR:** An individual who because of age lacks the capacity to contract under Alabama law. Under current law, this means a single individual under 19 years of age and a married individual under 18 years of age, but excludes an individual whose disabilities of non-age have been removed by a court of competent jurisdiction for a reason other than establishing a legal residence in Alabama. If current law changes, this definition shall change accordingly.

**SUPPORTING PERSON:** Either or both of the parents of the student, if the parents are living together or if the parents are divorced or living separately, then either the parent having legal custody or, if different, the parent providing the greater amount of financial support. If both parents are deceased or if neither has legal custody, support person shall mean, in the following order: the legal custodian of the student, the guardian, and the conservator.

In determining Resident Student status for the purpose of charging tuition, the burden of proof lies with the applicant for admission.

- A. Students participating in the Southern Regional Electronic Campus (or any successor organization) shall be considered Resident Students for tuition purposes.
- B. An individual claiming to be a resident shall certify by a signed statement each of the following:
  1. A specific address or location within the state of Alabama as his or her residence.
  2. An intention to remain at this address indefinitely.
  3. Possession of more substantial connections with the state of Alabama than with any other state.
- C. Though certification of an address and an intent to remain in the state indefinitely shall be prerequisites to establishing status as a resident, ultimate determination of that status shall be made by the institution by evaluating the presence or absence of connections with the state of Alabama. This evaluation shall include the consideration of all of the following connections:
  1. Consideration of the location of high school graduation or GED with three years of application for admission.
  2. Payment of Alabama state income taxes as a resident.
  3. Ownership of a residence or other real property in the state and payment of state ad valorem taxes on the residence or property.
  4. Full-time employment in the state.
  5. Residence in the state of a spouse, parents, or children.
  6. Previous periods of residency in the state continuing for one year or more.
  7. Voter registration and voting in the state; more significantly, continuing voter registration in the state that initially occurred at least one year prior to the initial registration of the student in Alabama at a public institution of higher education.
  8. Possession of state or local licenses to do business or practice a profession in the state.
  9. Ownership of personal property in the state, payment of state taxes on the property, and possession of state license plates.
  10. Continuous physical presence in the state for a purpose other than attending school, except for temporary absences for travel, military service, and temporary employment.
  11. Membership in religious, professional, business, civic, or social organizations in the state.
  12. Maintenance in the state of checking and savings accounts, safe deposit boxes, or investment accounts.
  13. In-state address shown on selective service registration, driver's license, automobile title registration, hunting and fishing licenses, insurance policies, stock and bond registrations, last will and testament, annuities, or retirement plans.

Students determined to be eligible for resident tuition will maintain that eligibility upon re-enrollment within one full academic year of their most previous enrollment unless there is evidence that the student subsequently has abandoned resident status, for example, registering to vote in another state. Students failing to re-enroll within one full academic year must establish eligibility upon re-enrollment.

### Non-Resident Student (additional persons for resident tuition)

A Non-Resident Student, one who does not meet the standard of having resided in the state of Alabama for at least 12 months immediately preceding application for admission, shall be charged the in-state tuition rate established by the Board of Trustees for the Alabama Community College System under the following circumstances provided such student is a citizen of the United States.

The dependent student (as defined by Internal Revenue Codes)

- whose supporting person is a full-time permanent employee of the institution at which the student is registering; or
- whose supporting person can verify full-time permanent employment in Alabama and will commence said employment within 90 days of registration; or
- whose supporting person is a member of the United States military on full-time active duty stationed in Alabama under orders for duties other than attending school; or
- whose supporting person is an accredited member of a consular staff assigned to duties in Alabama.

The student is not a dependent (as defined by Internal Revenue Codes) who

- is a full-time permanent employee of the institution at which the student is registering or is the spouse of such an employee; or
- can verify full-time permanent employment within the State of Alabama or is the spouse of such an employee and will commence said employment within 90 days of registration with the institution; or
- is a member of or the spouse of a member of the United States military on full-time active duty stationed in Alabama under orders for duties other than attending school; or
- is an accredited member of or the spouse of an accredited member of a consular staff assigned to duties in Alabama.

In determining Non-Resident Student status for the purpose of charging tuition, the burden of proof lies with the applicant for admission. The college may request proof that the applicant meets the stipulations noted above prior to admission.

Students who reside in Bedford, Franklin, Marshall, Maury, Moore, Lawrence, Lincoln, Wayne, or Giles counties in Tennessee will be assessed tuition at the "in-state" rate upon submission of documentation verifying residency.

## II. OUT OF STATE STUDENT

Any applicant for admission who does not fall into one of the categories noted above shall be charged a minimum tuition of two times the resident tuition rate charged by that institution. All international students are assessed at the out-of-state rate and are not eligible for in-state rates.

Students initially classified as ineligible for resident tuition will retain that classification for tuition purposes until they provide documentation that they have qualified for resident tuition. Upon approval, they will receive in-state tuition from that point forward. Tuition will be refunded retroactively for one semester only.

## FINANCIAL AID

Financial aid is available at Calhoun Community College in a variety of forms. Students needing assistance with college expenses should communicate with personnel in the Office of Student Financial Services at the following address:

Office of Student Financial Services  
Calhoun Community College  
P.O. Box 2216  
Decatur, AL 35609-2216  
or  
Office of Student Financial Services - Huntsville Campus  
102-B Wynn Drive  
Huntsville, AL 35805  
256-306-2628

FINANCIAL AID PROGRAMS AVAILABLE at Calhoun Community College include the following:

(Refer to the section entitled "Information on Specific Financial Aid Programs" for more information.)

- Alabama Student Assistance Grants
- Federal Work-Study
- Federal Pell Grants
- Federal Direct Student Loan
- Dorothy B. Johnson Loan Fund
- Federal Supplemental Educational Opportunity Grants
- Veterans', Service Members', and their Dependents' Benefits
- Workforce Investment Act (WIA)
- Scholarships
  - Academic
  - Calhoun Foundation
  - Performing Arts
  - Senior Adult Program
  - Scholarships for Disadvantaged Nursing Students (SDS)

## WHO MAY APPLY FOR FEDERAL FINANCIAL AID PROGRAMS?

Federal Student Financial Aid Programs are Federal Pell Grants, Federal Direct Student Loan (DSL), Federal Supplemental Educational Opportunity Grants (FSEOG), Federal Work-Study (FWS), Alabama Student Assistance Grants (ASAG), and Workforce Investment Act (WIA).

To qualify for financial aid from one of these five programs, one must:

- demonstrate financial need, except for some loan programs;
- have a high school diploma or a GED certificate;
- be enrolled as a regular, degree seeking student working toward a AA, AS, AAS or certificate in an eligible program;
- be a U.S. citizen or eligible non-citizen;
- maintain satisfactory academic progress according to the institutional policy;
- not be in default on a Direct Stafford Loan or Federal Family Education Loan (FFEL); and
- not owe a repayment on any federal financial aid program.

NO EXCEPTIONS WILL BE MADE TO THE ABOVE REGULATIONS.

## TRANSIENT STUDENTS

Students from other colleges and universities enrolling only for a few courses and/or during the summer are not eligible to receive Title IV funds.

## FEDERAL FINANCIAL AID APPLICATION PROCEDURES

Expenses for tuition, books, supplies, at-home maintenance, transportation, and miscellaneous personal costs are used in preparing an annual budget to help determine the applicant's financial need. Therefore, those who qualify must apply for financial aid each year.

Students who qualify may apply for financial aid at any time. However, processing time is generally four to six weeks; therefore, begin the application process as early as possible. All financial aid application forms and instructions are available in the Office of Student Financial Services. All students should file the Free Application for Federal Student Aid (FAFSA) application to determine their eligibility for Pell Grant and other grants, loans, offered by the Federal and State governments. This is an online application and can be found at [www.fafsa.gov](http://www.fafsa.gov). For assistance with the FAFSA, complete instructions can be found at <http://studentaid.ed.gov/resources#complete>. Look under the Booklets and Brochures link for the "Completing the FAFSA" instruction booklet for the academic year you are filing for (ex. "2016-17 Completing the FAFSA"). Calhoun Community College's Title IV federal school code is **001013**.

Priority in making awards for FSEOG and Federal Work-Study shall be given to students completing the application process prior to April 1 each year. Awards for applications submitted after the deadline will be based on availability of funds.

### Dependent/Independent Policy

The Federal Government has identified for student financial assistance programs certain categories of students who must be considered independent financial aid applicants. As a result, a student is considered an independent financial aid applicant if he or she meets one of the following criteria.

- Student was born before January 1, 1993.
- Student is a veteran or currently serving on active duty in US Armed Forces for purposes other than training
- Student is a ward of the court, was a ward of the court until age of 18, is an emancipated minor or in legal guardianship as determined by court in student's state of legal residence, or unaccompanied youth who was homeless since July 2014 as determined by entities listed on the FAFSA.
- Student has a child who receives more than half support from student.
- Student is a married student.

An independent financial aid applicant is not required to submit parental information in the application process. However, if the independent applicant is married, spousal information must be reported. A student who cannot meet at least one of the above criteria is considered a dependent applicant and must provide parental information in the application process.

## STUDENT RESPONSIBILITIES

- Login to your MyCalhoun and check your information/account.

- Review and consider all information about Calhoun's programs before you enroll.
- Pay special attention to your application for student financial aid, complete it accurately and submit it on time to the right place. Errors can delay receiving your financial aid. Intentional misreporting of information on application forms for Federal financial aid is a violation of the law and is considered a criminal offense subject to penalties under the U.S. Criminal Code.
- Login to your MyCalhoun account regularly to check for unsatisfied requirements, eligibility status changes, financial aid awards, and student account status.
- Provide all additional documentation, verification, corrections and/or new information requested by either the Office of Student Financial Services or the processing center where you submitted your application.
- Unsatisfied requirements are listed on MyCalhoun.
- Read and understand all forms that you are asked to sign, and keep copies of them.
- Accept responsibility for all agreements you sign.
- Understand that in order to be eligible for financial aid, attendance is required during the first week of class
- Perform, in a satisfactory manner, the work that is agreed upon in a Federal Work-Study job.
- Know and comply with the deadlines for application or reapplication for aid.
- Understand the school's refund policy.
- Maintain satisfactory academic progress for continued financial aid eligibility.
- Notify the Office of Student Financial Services if you are planning to attend another institution.
- Pay any tuition, fees or other expenses not paid by financial aid or scholarships by the deadlines to prevent your classes from being deleted.

### REFUND POLICY

A Student Financial Aid (SFA) refund applies when your payments and financial aid credits exceed your charges. The institution must calculate a refund using the refund policies in accordance with state and federal laws and regulations.

## FINANCIAL AID ENROLLMENT AND ATTENDANCE POLICIES

### Enrollment Status

The Federal Pell Grant will be reduced proportionally for a student enrolling less than full-time (less than 12 semester hours). If a student withdraws from a class or classes, he or she will likely have to repay some or all of their financial aid. If a student withdraws before 60% of the semester has been completed, a percentage of aid will be returned to the Federal program based on the length of time the student is enrolled prior to withdrawing. For example, if a student withdraws when 50% of the semester has elapsed, then 50% of the funds received by the student will be returned to the Federal program. After 60% of the semester has passed, a student is considered to have earned all aid received for that semester.

In order to receive a student loan, a student must enroll and have attendance confirmed in at least half-time (6 or more semester hours).

### Attendance

Title IV funds (Federal Pell Grants, Direct Student Loans and SEOG) are awarded to a student based on the assumption that the student will attend school for the entire period that the funding was allocated. A student begins earning Title IV funding (Federal Pell Grant) on his or her first day of attendance. Calhoun Community College instructors are required to verify attendance the first day of class. Students enrolled who do not attend the first class day after registration will not be eligible to receive Federal Pell Grant, SEOG and/or Federal Student Loan funding.

Attendance is important. If a student registers and begins class after the first class date, it is the student's responsibility to complete all coursework assigned from the first day of class. The individual course syllabus states the specific policies and guidelines of the course and the student will be held accountable to the individual course syllabus.

Instructors may withdraw a student if he/she exceeds the number of absences outlined in the course syllabus. If a student fails to officially withdraw from a course, a grade of "F" may be assigned and this can adversely affect a student's financial aid. Withdrawing from a course is the student's responsibility. If a student fails to withdraw and receives an "F", the grade will not be changed without the written approval of the Vice-President for Academic Affairs.

### Return of Title IV Policy

If a financial aid student withdraws from a class, he or she could be liable for a Pell grant repayment. Our Return to Title IV Policy outlines how that repayment is determined.

**Higher Education Amendments of 1998:** A student who received Title IV funding (ex: Pell grant, FSEOG, student loans, or federal work-study) and withdraws from all classes prior to the 60% point of the semester will owe funds back to the U.S. Department of Education and to Calhoun Community College.

Calhoun Community College conforms to the Federal Return of Title IV funds regulations. Title IV funds refer to the following federal financial aid programs (subsidized and unsubsidized Direct Stafford Loans, Federal Direct PLUS loans, Federal Pell Grants, Federal SEOG and TEACH Grants). Federal Work Study funds are excluded from the refund calculations.

**Official Withdrawal:** A student who received Title IV funding (ex: Pell grant, FSEOG, student loans, or federal work-study) and withdraws from all classes prior to the 60% point of the semester will owe funds back to the U.S. Department of Education and to Calhoun Community College.

**Unofficial Withdrawal:** A student who received Title IV funding (ex: Pell grant, FSEOG, student loans, or federal work-study) and unofficially withdraws (stops attending and does not receive a passing grade in at least one class) from all classes may owe funds back to the U.S. Department of Education and to Calhoun Community College. If the student attends beyond the 60% point, the return to Title IV is calculated based on the 50% point of the term.

The concept behind the policy is that the college and the student are allowed to retain only the amount of Title IV funding (federal aid) that is earned. If a student withdraws or is withdrawn or stops attending classes, whether

any credits are earned for the class or not, a portion of the aid received is considered to be unearned and must be returned to the Title IV program from which it was received. For Title IV purposes, the withdrawal date is the last date of attendance as determined by attendance records or withdrawal form.

**Return to Title IV Policy:** The first step is a series of formulas to determine the amount of aid which must be returned. Following the determination of the withdrawal date, the school must calculate the number of days attended and the total number of days the student was scheduled to complete within the term; weekends count and any periods of no classes which are five days in length or greater are excluded. Days attended are then divided by the days in the term the student was scheduled to complete. If an unofficial withdrawal equal to or less than 60%, 50% is multiplied by total aid for which the student is eligible (aid that was disbursed and that could have been disbursed) to determine the amount of aid earned (50% completed x total aid = earned aid). If an official withdrawal, the calculated percentage is multiplied by total aid for which the student is eligible (aid that was disbursed and that could have been disbursed) to determine the amount of aid earned (% completed x total aid = earned aid). Total aid – earned aid = unearned aid (aid to be returned).

The next step is for the school to determine total institutional charges and multiply that figure by the percentage of unearned aid (100% - % completed = % unearned). Institutional charges are generally defined as charges for tuition and fees, room and board (if applicable), costs of books and materials, and other educational expenses that are paid to the school directly up to the date of the student's withdrawal. If institutional charges are changed after a student withdraws, those changes do not impact the changes nor aid earned in the Return to Title IV calculation. It makes no difference which type of resources actually paid the school bill; the law assumes that Title IV aid goes first to pay the institutional charges. Institutional charges x % unearned = amount returned by school. The school must then return the amount of unearned aid, up to the maximum received, to each of the Title IV programs in the following order:

- Unsubsidized Direct Stafford Loan
- Subsidized Direct Stafford Loan
- Federal Perkins Loan (Calhoun does not participate)
- Direct Plus Loan
- Federal Pell Grant
- Federal Supplement Education Opportunity Grant (FSEOG)
- Other Federal Grants

The school then calculates the amount for which the student is responsible by subtracting the amount returned by the school from the total amount which is unearned. That remaining amount is the student's share and is allocated in the same order as above. Total amount unearned – amount returned by school = \$ amount the student is required to return to Title IV funds. Once the school determines the dollar amounts owed to the student to the US Department of Education, the student will be notified of what he or she owes. Funds that must be returned by the student to the loan programs can be paid in accordance with normal loan repayment terms. If the student's portion of unearned Title IV funds includes a federal grant, the student has to pay no more than 50% of the initial Pell award that the student is responsible for returning. A student has 45 days to make repayment and does not have to repay a grant overpayment of \$50.00 or less. Unpaid balances will be reported to NSLDS, the National Student Loan Database system, and turned over to the U.S. Department of Education for collection. Until overpayments are repaid or

satisfactory repayment arrangements have been made, student will be ineligible for further Title IV awards at any institution.

Once the school determines the amount Calhoun Community College is required to repay the U. S. Department of Education, the school returns the funds and bills the student for the amount of money the school had to repay. This policy is separate from the school's institutional refund policy. Unpaid balances due to Calhoun Community College that results from amounts returned to Title IV programs and other sources of aid will be charged back to the student. The student is also responsible for paying all outstanding tuition balances to the college. The student's account will be placed on HOLD for registration and transcripts until the balance is paid in full. If a student does not attend any classes or ceases attendance during the 100% refund period, aid may have to be reduced to reflect appropriate enrollment status prior to recalculating Return to Title IV funds. The Financial Aid Office processes the Return of Title IV Funds calculation. A student who has questions regarding the calculation should contact the Financial Aid Office at 256-306-2628. Forms, worksheets, and examples of calculations are available in the Financial Aid Office.

## **REPAYMENT POLICIES**

### **Recalculation Policy**

Changes in a student's original enrollment may result in a recalculation of Title IV benefits; therefore students will be paid based on their enrollment status at the time of payment.

FWS funds are **not** considered in the refund process.

### **Repayment Policy**

This policy applies to students who have withdrawn from 100% of their classes. It does not apply to students who have withdrawn from selected courses.

### **Treatment of Financial Aid for Complete Withdrawal**

A Return of Title IV Funds calculation is processed for a student who meets the following conditions: receives Title IV funds (or who meets the conditions that may entitle the student to a late disbursement), begins attending classes, and completely withdraws from the term. The Return of Title IV Funds calculation is a policy of the United States Department of Education that determines the amount of the Title IV funds Calhoun Community College and/or the student are to return to a Title IV program. The term "Title IV Funds" refers to the Federal Financial Aid Programs authorized under the Higher Education Act of 1965 (as amended) and at Calhoun Community College includes Federal Direct Subsidized and Unsubsidized Loans, Direct Parent Loans to Undergraduate Students (PLUS), Federal Pell Grants and Federal Supplemental Education Opportunity Grants (FSEOG).

The student's recalculated award amount is used in the Return of the Title IV Funds calculation. The percentage of Title IV aid earned is found by dividing the number of calendar days completed by the time of withdrawal date by the number of calendar days in the term. If the student has completed more than 60% of the term, the student is considered to have earned 100% of the Title IV aid. The amount of the Title IV aid earned is found by multiplying the amount of aid disbursed for the term plus what could have been disbursed by the percentage of Title IV aid earned. If the amount earned is less than the amount of aid disbursed, a late disbursement may

be due. If the amount earned equals the amount disbursed, no return and no disbursement are to be made.

Calhoun Community College returns the lesser of (a) the total amount of unearned aid or (b) an amount equal to the student's institutional charges multiplied by the percentage of aid unearned. The amount of aid Calhoun Community College is to return is then subtracted from the amount of the Title IV aid to be returned to find the initial amount of unearned Title IV aid for the student to return. The total of Title IV grant that was disbursed and could have been disbursed for the payment period is multiplied by 50% to find the amount of Title IV grant protected. The amount of Title IV grant protected is subtracted from the initial amount of unearned Title IV aid for the student to return. This is termed an overpayment. The student is billed for funds returned by Calhoun Community College.

In the event of an overpayment, Calhoun Community College notifies the student, and the student may be allowed 30 days to pay the amount in full to the Calhoun Community College Business Office. If full payment is not made to Calhoun Community College within 30 days, the student's account will be turned over to a collection agency. While the overpayment is due, the student remains eligible for financial aid generally for 30 days from the date of the overpayment.

The amounts returned by Calhoun Community College or by the student are returned in the following order: (1) Unsubsidized Direct Loan; (2) Subsidized Direct Loan; (3) Direct Parent Loans to Undergraduate Students (PLUS); (4) Federal Pell Grant and (5) Federal Supplemental Education Opportunity Grants (FSEOG).

The Financial Aid Office processes the Return of Title IV Funds calculation. A student who has questions regarding the calculation should contact the Financial Aid Office at 256-306-2628. Forms, worksheets, and examples of calculations are available in the Financial Aid Office.

### **Treatment of Financial Aid if a Student Stops Attending Classes or Earns No Passing Grades in a Term**

A Return of Title IV Funds calculation is processed for a student who meets the following conditions: receives Title IV funds (or who meets the conditions that may entitle the student to a late disbursement), begins attending classes, and stops attending classes. The Return of Title IV Funds calculation is described in the previous section "Treatment of Financial Aid for Complete Withdrawal."

## **SATISFACTORY ACADEMIC PROGRESS (SAP)**

### **Policy**

Federal regulations, HEA Sec. 484(c), §668.16, 668.34, require all schools participating in Title IV Federal Financial Aid programs to have a Satisfactory Academic Progress (SAP) policy that conforms to the requirements detailed below. These requirements apply to all students as one determinant of eligibility for financial aid.

- Your SAP status is based on your entire academic record, at all schools attended (includes all transferable hours), regardless of whether you received financial aid.
- SAP is calculated each semester after grades have been posted to academic history by the Registrar's Office.

- If after the first term of attendance you are not making SAP, you will be put on a Warning status and allowed to keep aid for one term. Your continued eligibility will be determined after the next term check point.
- If your SAP status is Failure after the check is performed, you will not qualify for financial aid for the following term.
- If your SAP status is Failure and you cannot mathematically attain SAP requirements following the next term, an appeal will **not be permissible**. Documented mitigating circumstances may allow continued eligibility on a case-by-case basis and will require an academic plan.
- A student may appeal their SAP Failure status only twice during their academic career at Calhoun Community College.

### GPA and Completion Rate Requirements

#### GPA

- If the student has attempted 1-21 hours they must maintain a 1.5 GPA.
- If the student has attempted 22-32 hours they must maintain a 1.75 GPA
- If the student has attempted 33 or more hours they must maintain a 2.0 GPA.

#### Completion Rate

- If the student has attempted 1-21 hours they must maintain a 58% completion rate.
- If the student has attempted 22-32 hours they must maintain a 62% completion rate.
- If the student has attempted 33 or more hours they must maintain a 67% completion rate.

#### Additional Regulations

- Students are only allowed 150% of the programs length to complete the degree or certificate.
  - Example: General Studies is 64 credits. You are allowed 150% or 96 attempted credits to complete the program successfully. If you do not complete your program in the allotted timeframe your financial aid funds will be suspended.
- Title IV funds (grants and loans) will only pay for courses in the student's declared major.
- If you do not meet any of the requirements listed you will be given one warning semester in which you will be eligible to receive aid.
- After the warning semester you must have the required GPA or completion rate to continue to receive financial aid assistance.
- If your funds are suspended you are able to appeal based on any mitigating circumstances that caused you to be unsuccessful in your coursework.
- Additional information as to the treatment of repeat, incompletes, withdrawals, transfer credit, bankrupted, and remedial classes is as follows:
  1. Repeat classes will be factored into the GPA, completion rate, and maximum timeframe calculations.  
In addition, a student can only repeat a successfully-passed class using federal aid once.
  2. Incompletes will be factored into the GPA, completion rate, and maximum timeframe calculations.
  3. Withdrawals will not be factored into the GPA calculation but will

be included in the completion rate and maximum timeframe calculations.

4. Transfer credits will not be factored into the GPA calculation but will be included in the completion rate and maximum timeframe calculations.
  5. Bankrupted classes will be factored into the completion rate and maximum timeframe calculations.
  6. Remedial classes will be factored into the GPA, completion rate, and maximum timeframe calculations.
- Courses attempted include any course in which grades of A, B, C, D, F, W, I, S, U or IP are given. Only courses with grades of A, B, C, or D count as earned credits.
  - Students on financial aid warning status must not withdraw or receive any grades below a "C" in order to maintain financial aid eligibility.
  - If you have any questions about your financial aid file, please contact the Financial Aid Office.
  - Students can check their Satisfactory Academic Progress (SAP) by going to MyCalhoun.

### Financial Aid Appeal

- Students may submit a Financial Aid Appeal if they can provide documented proof of mitigating circumstances. Mitigating Circumstances are those that are beyond the student's control.
- Students must submit the appeal and all documentation pertaining to the appeal, by the published appeal deadline. Submitting a Financial Aid Appeal is **NOT** an automatic approval.
- The Financial Aid Committee will meet every 30 days to consider completed appeals. The decision of the appeals committee is final.
- Students will be notified of the decision made by the committee by e-mail.
- Students must follow the terms of their appeal if approved or their Financial Aid will be suspended.

## POLICY DETAILS

### What happens when you do not meet the requirements?

- You are no longer eligible for financial aid – including work, loans, grants or scholarships. If on a Warning Status – eligibility may continue (note below).
- Because you do not qualify for financial aid, you must pay your tuition and fees by the payment deadline or your registration will be canceled by the Business Office.

**Maximum Time Frame (maximum attempted credit hours)** – When you have attempted the maximum credit hours, you are no longer eligible to receive financial aid.

**Is there extended eligibility for a 2nd degree?** – Yes, you may attempt a total of 150% of the hours needed to complete your first degree plus 33 additional hours. The standard is  $64 \times 150\% = 96 + 33 = 129$  attempted hours.

**Low Completion Ratio** – There are three statuses for low completion ratio before your eligibility for financial aid is canceled.

- **Warning Status** – The first time you fall short of meeting the required completion ratio, your status is Warning. You remain eligible to receive financial aid while in warning status.
- **Failure Status (Loss of Eligibility)** – After attending one semester on Warning status, if you do not meet the required completion ratio, your status becomes Failure Status. You are no longer eligible to receive financial aid until the required standards are met. You must

successfully appeal to regain eligibility.

- **Probation Status** – After being placed on a Failure Status, AND a student has successfully appealed and financial aid has been reinstated, the student is eligible to receive financial aid. This status is only for one term and quite often will carry conditions and/or stipulations for continued eligibility.

Students who are receiving financial aid and are on warning or probation status must not withdraw or receive any grades below a “C” in order to maintain financial aid eligibility.

### **Appeal Requirements:**

1. A typewritten explanation of extenuating circumstances associated with Failure Status. Indicate how these circumstances have changed so that you can comply with regulations in the future. Attach supporting documents to support the extenuating circumstances mentioned in the letter.
2. Include a “student plan of action” for academic improvement. This requires that you meet with an Academic Advisor or access MyCalhoun and get an Academic Evaluation Report.
3. Attach at least one letter of support from someone that can substantiate the extenuating circumstances. This individual should not be a family member. Examples would include a medical doctor, clergy, professional, etc.
4. Attach the SAP Appeal form and the SAP Evaluation Form.
5. The appeals forms must be provided to the Office of the Student Financial Services within the prescribed dates as noted on the SAP Appeal Form. Failure to provide these within the prescribed dates will result in a delayed determination.
6. An objective committee, composed of selected individuals outside the Office of Student Financial Services, determines whether the appeal is approved. The decision of the Appeals Committee is final and cannot be appealed further.
7. Appeal Denials or Non-appeals – If you are denied an appeal or you decide not to appeal, you must complete the necessary hours and earn the appropriate grades. Once you have reached the prescribed standards you become eligible to receive financial aid.

### **No Progress (receiving all Fs or all Ws)**

Students receiving all Fs or Ws will be placed on SAP Warning beginning the following semester regardless of the students’ cumulative GPA, and their continued financial aid eligibility will be checked consistent with policy (the following term).

## **INFORMATION ON SPECIFIC FINANCIAL AID PROGRAMS**

### **1. ALABAMA STUDENT ASSISTANCE GRANT**

The Alabama State Grant Program provides additional assistance to undergraduates who demonstrate exceptional financial need. Students who receive Pell Grants with the lowest family contribution figure (FC) are eligible. The Alabama State Grant is not a loan; therefore, the funds do not have to be paid back.

### **2. FEDERAL WORK-STUDY**

The College Work-Study Program provides employment for Calhoun students who need financial assistance. Students work part-time for the college while attending classes.

### **3. DOROTHY B. JOHNSON LOAN FUND**

This fund is available to students with an immediate cash flow problem and may be used to cover the cost of tuition and books. It must be repaid from grant or individual accounts within the semester borrowed.

### **4. FEDERAL PELL GRANT**

The Pell Grant Program provides financial assistance for students who qualify for funds in order to attend a postsecondary educational institution. A Pell Grant is not a loan; therefore, the funds do not have to be paid back. Students can receive a Pell Grant for a maximum of twelve semesters.

### **5. FEDERAL PLUS LOAN PROGRAM**

The Federal PLUS Loan Program provides loans to parents of eligible dependent students who need additional financial assistance in meeting postsecondary educational expenses. Eligibility is not based on income. This program is intended to supplement the Federal Stafford Loan Program.

A parent may receive an amount not to exceed the student’s estimated cost of attendance minus any financial aid the student has been or will be awarded during the period of enrollment. There are no aggregate limits.

### **6. FEDERAL DIRECT STUDENT LOAN**

The Direct Student Loan (DSL) program is a loan program where a student may borrow funds to cover his/her educational expenses. Students may borrow either a subsidized or unsubsidized loan.

A subsidized loan is awarded on the basis of financial need. You will not be charged any interest before you begin repayment or during authorized periods of deferment. The federal government “subsidizes” the interest during these periods.

An unsubsidized loan is not awarded on the basis of need. You’ll be charged interest from the time the loan is disbursed until it is paid in full. If you allow the interest to accumulate, it will be capitalized; that is, the interest will be added to the principal amount of your loan and additional interest will be based upon the higher amount. This will increase the amount you have to repay. If you choose to pay the interest as it accumulates, you’ll repay less in the long run.

- a. If you are a first-time borrower, your first payment will not be disbursed until 30 days after the first day of classes.
- b. Loan Entrancing Counseling is mandatory for all borrowers.
- c. Students placed on financial aid probation are not eligible for

## GENERAL INFORMATION

the student loan program(s).

### 7. FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT

The FSEOG Program provides additional assistance to undergraduates who demonstrate exceptional financial need. Students who receive Pell Grants are eligible. The Supplemental Educational Opportunity Grant is not a loan; therefore, the funds do not have to be repaid.

### 8. VETERANS, SERVICE MEMBERS, AND THEIR DEPENDENTS' BENEFITS

The Veterans Affairs Certifying Official's Office is located in Room 101R at the Huntsville Campus. Qualified students may also submit paperwork through the Financial Aid Office in the Chasteen Student Center on the Decatur campus. Appointments for area students may be arranged if the veteran has questions or concerns by calling 256-890-4790. The VA Office is the certifying authority for veterans, active duty service members, reservists and National Guard, and dependents that qualify for the federal program. The VA Office serves as the link between the Regional Veterans Affairs Office and the VA benefit recipient who is enrolled at Calhoun Community College.

Calhoun Community College does **not** participate in the VA Advanced Pay Program. Veteran students (except Chapter 31 – Rehabilitation and Employment, and Chapter 33 Post 9/11) are required to pay all tuition and fees. After certification has been sent to the Regional Office, the education benefits will be sent directly to the veteran.

Calhoun Community College is in compliance with 8 USC 3679(c) and the following individuals shall be charged the in-state/in-district rate, or otherwise considered a resident, for tuition purposes:

- A Veteran using educational assistance under either Chapter 30 (Montgomery G.I. Bill– Active Duty Program ) or Chapter 33 (Post -9/11 G.I. Bill) of Title 38, United States Code, who lives in the State of Alabama (regardless of his/her formal State of residence ) and enrolls in the school within three years of discharge from a period of active duty service of 90 days or more.
- Anyone using transferred Post-9/11 GI Bill benefits (38 U.S.C. § 3319) who lives in the state of Alabama while attending a school located in the state of Alabama (regardless of his/her formal state of residence) and enrolls in the school within three years of the transferor's discharge from a period of active duty service of 90 days or more.
- A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311 (b)(9)) who lives in the state of Alabama (regardless of his/her formal state of residence) and enrolls in the school within three years of the Service member's death in the line of duty following a period of active duty service of 90 days or more.
- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person described must have enrolled in the school prior to the expiration of the three year period following discharge or death described above and must be using educational benefits under either Chapter 30 or Chapter 33 of Title 38, United States Code.

### VA CERTIFYING OFFICIAL OFFICE HOURS

HUNTSVILLE CAMPUS .....	<b>Monday &amp; Wednesday</b> 8:30 a.m. – 5:45 p.m. <b>Tuesday &amp; Thursday</b> 7:45 a.m. – 1:00 p.m. <b>Friday</b> 7:45 a.m. – 11:45 a.m.
DECATUR CAMPUS.....	<b>Tuesday and Thursday</b> 1:30 p.m. – 5:15 p.m.

**FAX 256-306-2948**

To apply for the **Alabama G.I. Dependents' Scholarship Program**, please follow the procedure listed below:

- (1) Apply for certificate at your local county Veterans Affairs Office.
- (2) When student receives certificate from the Alabama Department of Veterans Affairs in Montgomery, Alabama, contact the Business Office, Calhoun Community College at 256-306-2541 or 256-890-4700 or 1-800-626-3628.

Courses under Course Number 100 will not be approved for students under this program. Benefits include tuition, technology fee and books only. Facility fees must be paid by the student each semester.

9. **WORKFORCE INVESTMENT ACT (WIA)** is a federally funded program to provide training assistance to dislocated individuals. Students may qualify for tuition assistance, book allowances and tool assistance. Interested dislocated workers should apply at their local Alabama State Employment Service.

### 10. SCHOLARSHIPS AND GRANTS-IN-AID

#### a. ACADEMIC SCHOLARSHIPS

March 1st is the date on which applications for academic scholarships are due. Scholarship applications are available online at Calhoun's website at [www.calhoun.edu](http://www.calhoun.edu). Each application is reviewed by the Calhoun Scholarship Committee, and each award is based upon academic achievement.

#### b. CALHOUN FOUNDATION SCHOLARSHIPS

The Calhoun Community College Foundation provides tuition scholarships based upon a variety of qualifying criteria. Recipients must have at least a "B" average for high school grades and/or maintain the average for courses taken at Calhoun. Scholarships are renewable for four semesters unless otherwise specified in the scholarship guidelines.

#### c. FINE ARTS SCHOLARSHIPS

Fine Arts Scholarships are available for students in art, graphic design, photography, voice, instruments, drama, and music industry. Additional information is available from a faculty member in the Fine Arts Department.

#### d. SENIOR ADULT PROGRAM SCHOLARSHIPS

This program provides tuition free admission for those who are 60 years of age or older. Students must enroll for credit courses and

meet college and program of study admission standards. The award is based upon space availability in each course. Fees and other costs, other than tuition, are paid by the senior adult student.

**e. STUDENT ACTIVITY AND LEADERSHIP SCHOLARSHIPS**

These scholarships are received by:

1. President, Vice-President, and Secretary/ Treasurer of the Student Government Association;
2. Editor and assistant editor or photographer of the college literary magazine, The Muse;
3. Members of the College's official student ambassadors, the Warhawks; and
4. President of Phi Theta Kappa

If a student leaves the position for which the scholarship was awarded, the scholarship may be passed to a successor. In addition, the student leaving the leadership position will reimburse the College a prorated amount of the tuition scholarship based upon the amount of time remaining in the college term.

**f. SCHOLARSHIPS FOR DISADVANTAGED NURSING STUDENTS**

These scholarships are awarded through a grant funded by the U.S. Department of Health and Human Services. These scholarships are awarded to full-time, financially needy students from disadvantaged backgrounds enrolled in the Associate Degree Nursing (ADN) Program. For purposes of SDS eligibility, full-time status is based on a combination of traditional contact hours and clinical hours in the Associate Degree Nursing Program.

Disadvantaged backgrounds as defined by HRSA (Health Resources and Services Administration) include: (a) comes from an environment that has inhibited the individual from obtaining the knowledge, skill, and abilities required to enroll in and graduate from a school (environmentally disadvantaged); or (b) comes from a family with an annual income below a level which is based on low-income thresholds according to family size published by the U.S. Bureau of the Census, adjusted annually for changes in the Consumer Price Index, and adjusted by the Secretary of Health and Human Services (HHS) for adaptation to this program (economically disadvantaged).

For more information, contact the SDS Grants Office or Dr. Debi Hendershot at 256-306-2581.

**PLEASE NOTE: LPN students do not qualify for SDS Scholarships.**

**Additional financial aid information can be obtained from the Office of Student Financial Services.**

## BOOKSTORE

The College Bookstore is an auxiliary service owned and operated by Follett. The purpose of the Bookstore is to provide the college community with the widest possible selection of goods and services of high quality at equitable prices, with particular attention paid to academic requirements. For your convenience, the bookstore is located at both the Decatur and Huntsville campuses.

## BUSINESS INFORMATION

### DECATUR CAMPUS

**Monday-Thursday**

8:00 a.m.-5:00 p.m.

**Friday**

8:00 a.m.-12:00pm

**256-306-2572**

**www.calhoundecaturshop.com**

### HUNTSVILLE CAMPUS

**Monday-Thursday**

7:45am – 6:00pm

**Friday**

9:00am - 11:45am

**256-890-4748**

**www.calhounhuntsvilleshop.com**

### Special Hours

First week of class, special hours will be posted in-store and on the website. Hours may vary when classes are not in session (Bookstore hours are subject to change without notice)

## METHOD OF PAYMENT

Payment may be made by cash, personal check or credit card. The following policy governs payment by check:

1. Checks are accepted for the amount of purchase only.
2. Checks must be made payable to the Calhoun College Bookstore.
3. Phone number, student number or driver's license number and address must be recorded on face of check.

## REFUND POLICY

Textbook refunds will be granted up to seven(7) days after the first day of class with receipt. Textbooks must be in the same condition as purchased(access codes sealed, shrink wrap intact, books unmarked).

## BOOK BUY BACK POLICY

Textbooks may be sold to the Bookstore any day that the bookstore is open. General buy back policy is as follows:

1. You must present a photo ID.
2. All titles will be considered for buy back regardless of where you purchased them. Price will be determined by market demand and may be purchased for as much as 50% of original purchase price.
3. Normal markings and underlining expected; however, books with excessive markings, water stains, broken bindings, loose pages, heavily soiled, etc. will not be purchased.

## SECURITY/POLICE

The office of the Director of Calhoun Police is located in building #6 across from the Machine Tool building on the Decatur campus.

The campus police at the Huntsville location can be contacted in the Administrative office at that location. Officers are available whenever classes are in session. Calhoun police have the responsibility for the following:

## GENERAL INFORMATION

1. Assisting students
2. Enforcing traffic and parking regulations and state laws
3. Providing for parking and traffic flow for special events (Students, faculty, and staff must notify security when special events are scheduled on campus)
4. Issuing decals
5. Maintaining building security
6. Responding to any emergency situation

Phone: 256-306-2575, Decatur  
256-890-4741, Huntsville

### Emergency: 256-306-2911

**NOTE:** In case of a medical emergency, security will, at the individual's expense, call an ambulance for transporting to a nearby emergency room for treatment.

## INSTRUCTIONAL INFORMATION AND REGULATIONS

### BEGINNING FALL 2012

All first-time freshmen are required to enroll in ORI 110, Freshman Seminar, during their first semester at Calhoun Community College.

## CLASSIFICATION OF STUDENTS

### University Parallel

Students who plan to enroll for coursework which will transfer to a four-year institution are considered to be university parallel students. Enrollment may be for a minimum of one term or through completion of a two-year degree. Students should meet with an academic advisor to discuss programs of study and transfer requirements.

### Transient

A Calhoun student who desires to attend another institution to take a course or courses needed for graduation at Calhoun must be in good standing with the College. A student in good standing with the institution must hold a cumulative GPA of 2.0 or higher and have no outstanding obligations with Calhoun. Coursework must be completed at a regionally accredited college or university and must be the equivalent of the Calhoun course needed for degree requirements. Students will be responsible for requesting their transcripts be sent to Calhoun at the completion of the term. Transcripts must be received before credit can be awarded.

### Career and Technical

Students follow one of the career, technical, or allied health programs which lead to a certificate or degree.

### Course Load

Students are classified according to the course load based on the credit hours for which they are enrolled on a semester basis.

Credit Hour Loads	Credit Hours
Full-Time	12 or more
3/4 Time	9 - 11
Half-Time	6 - 8
Less than Half-Time	1 - 5

**NOTE:** To be eligible for financial assistance a student typically must be enrolled for at least 6 credit hours.

### Drop-and-Add Period

The drop and add period for fall and spring will be the first two days of each semester and the first two days of each summer semester. No grade will be assigned if a course is dropped during the drop/add period. See the section of this catalog on refund policy for refund information.

## GRADING POLICIES

### Withdrawals

Students may withdraw from class, or the College, prior to the last day of the withdrawal period for the semester or term, as published in the College Class Schedule. To withdraw from class or the College, students must withdraw using their MyCalhoun account. Students who withdraw prior to the deadline will be assigned a grade of "W". However, a grade of "F" will be assigned to students who fail to satisfactorily complete the requirements of a course or who voluntarily discontinue class attendance and fail to follow the College's official withdrawal procedure.

### Grades

The following letter symbols are used to indicate the student's level of achievement in courses taken:

- A** - Excellent (90-100)
- B** - Good (80-89)
- C** - Average (70-79)
- D** - Poor (60-69)
- F** - Failure (Below 60)

- S** - Successful
- U** - Unsuccessful

- AU** - Audit
- I** - Incomplete
- IP** - In Progress
- W** - Withdrawal

**NOTE:** Some programs and/or courses may require a higher numeric range than the standard noted above.

**A, B, C** are letter grades which represent levels of accomplishment sufficient to allow students to progress satisfactorily toward graduation and/or prerequisite requirements.

**D** is a letter grade which indicates minimum level accomplishment. Some courses/programs require a minimum of a "C" grade to progress to the next course or to remain eligible for continuation in a program of study.

**F** is the letter grade assigned to students who fail to meet minimum course requirements.

**W** is the letter grade assigned when a student withdraws or is administratively withdrawn from a course/courses after the drop/add period until the withdrawal deadline; the specific date can be found in the Class Schedule for each term.

**I** as a letter grade indicates incompleteness of course requirements; thus

an "I" is not a satisfactory completion and will not allow a student to progress to the next course level. An "I" is awarded only under extenuating circumstances. An "I" typically is used to signify that an instructor has granted permission to a student to complete work or that the Dean or designee has approved the student take his/her final examination late. Other circumstances as approved by the instructor and/or Dean or designee may be granted. The student must be aware that he is **not** to sign up for the course again, but to see the instructor **promptly** and complete the course requirements.

**Regardless of the circumstances, a grade of I must be changed by the end of the following term or it will be converted to an F.**

**IP** as a letter grade indicates IN PROGRESS and may only be assigned to developmental credit courses, practicums, and internships. The awarding of an IP is the option of the instructor, provided the student has been in regular attendance and has demonstrated conscientious effort yet has not achieved course mastery. Students who receive an IP must repeat the course; it is not satisfactory completion. An IP may be used only once for a class.

**S** – Co-op, practicums, and training for Business and Industry.

**U** – Co-op, practicums, and training for Business and Industry.

### Grade Points

A student's academic standing or Grade Point Average (GPA) is a means to evaluate the overall quality of work being done. In order to perform this measure, the following grade points are assigned.

A	4	grade points per hour
B	3	grade points per hour
C	2	grade points per hour
D	1	grade point per hour
F	0	grade points per hour
S	0	grade points per hour
U	0	grade points per hour

The student's grade point average is obtained by dividing the total grade points earned by the total number of semester hours for which the grades of A, B, C, D, or F are assigned. Grades of W, IP, and AU do not affect the grade point average. A student must have a total overall grade point average of 2.0 (C) on all courses used for graduation in order to be eligible for graduation from Calhoun. (Developmental courses will not apply to the graduation audit).

### Grade Appeal Procedure

Student grade appeals may be expected to occur in a large and complex institution. The prevailing philosophy of the institution is that such appeals be handled informally if possible. Only after full and comprehensive attempts made by students and faculty to resolve grade appeals have failed should a formal procedure be initiated.

There is no appeal procedure if six months of calendar time have elapsed; therefore, the grade appeal procedure must be initiated by the student within six months from the time the grade is received. There are two procedures for appealing a final grade. The first applies if the appeal is within the first eight weeks of the semester immediately following the one for which the grade was received. The second final grade appeal procedure

applies if the appeal is after the first eight weeks of the succeeding term.

#### A. Procedure for appealing a final grade during the first eight weeks of the following semester:

A student may appeal the final grade received for a course by following the procedures outlined here. Grades received during the academic term for performance, tests, or other activities are private and confidential material between the student and the instructor and are not intended to be covered by the procedures. Daily grades may be considered only as evidence in the formal part of the appeal process, viewed solely on the basis of "a need to know," and handled in such manner so as to continue confidentiality.

1. The student should consult with the instructor promptly after receiving a final grade which he or she feels is unwarranted. If the appeal is not satisfied at this level, the Dean of the Division should meet with either or both in an informal attempt to reach closure. The burden of proof in the grade appeal lies with the student. If the appeal is resolved at this point, a "memorandum of record" should be prepared by the Dean of the Division and be maintained on file. The memorandum will serve as the institution's record that the disagreement was resolved informally.
2. If closure is not reached by using the informal approach, the student may file a formal grade appeal with the appropriate Dean of the Division. This writing must be dated and filed with the appropriate person prior to the midpoint of the succeeding semester. The formal grade appeal must state the reasons for the request, include the dates involved, name the instructor who assigned the grade, and include the previous attempts at resolving the situation informally. The burden of proof in the grade appeal lies with the student.
3. Prompted by the Dean of the Division, a divisional grade appeal committee is limited to two calendar weeks from the date of the appeal to convene, gather evidence, and conduct a hearing. Appropriate evidence in support of the appeal must be provided by the student. However, the committee may request the student's materials from the instructor in cases where the instructor possesses the evidence. Grade and attendance records may be requested of the instructor. However, neither tangential issues nor individual personalities will be considered by the committee. To maintain the confidentiality of the hearing, only committee members, the instructor, and the student may be present at the proceedings.

Each division shall maintain a divisional grade appeal committee. Divisions may elect members or members may be appointed by the Dean of the Division. The divisional grade appeal committee should contain no fewer than three full-time faculty members. Members should rotate off the committee on a yearly basis. If a committee member is unable to serve due to involvement in the specific case being heard, the division chair will appoint a substitute for that particular case. The chairperson of the Divisional Grade Appeal Committee will be elected by the membership and will have the following duties: arrange times

and places for the committee meetings and hearings; inform in writing all parties of the committee's activities; ensure that proper records are prepared, maintained, and safeguarded; and chair all meetings and hearings.

The Chair of the committee shall ensure that hearings are reasonable and fair; that only matters properly before the committee are discussed; that meetings and hearings are conducted in a professional atmosphere; and that every attempt is made to protect the integrity of the parties involved.

Committee members must be present at all hearings in order to vote following deliberations. (If, in the committee's opinion, special experience or expertise is necessary for sufficient information to be available or if the appeal is of such sensitivity that the committee should not hear the appeal, the Chairperson shall so advise the Vice President for Academic Affairs or designee. The Dean will then appoint a special appeals committee of institution-wide membership to hear the specific case.)

4. Following the conclusion of the hearing, the committee will deliberate privately as appropriate and prepare a written recommendation for the Vice President for Academic Affairs or designee to be submitted not later than seven calendar days after the date of the hearing. Their recommendation will be either to retain the grade or to alter it. If the recommendation is to alter, the specific grade after alteration will be indicated. The recommendation should include a brief summary of the facts of the hearing and the reasons for the committee's decision. The deliberations and recommendation of the committee are confidential. The committee may meet with the Vice President for Academic Affairs or designee at the Vice President's discretion to discuss actions, deliberations, and recommendations.
5. The Vice President for Academic Affairs or designee will provide a statement of the decision to the student within one calendar week following the committee's recommendation. Copies of the statement of decision will be provided to the appeal committee, the Division Chairperson, and the faculty member involved. The decision of the Vice President for Academic Affairs or designee is final. (CCC)

- B. Procedure for appealing a final grade after the first eight weeks of the following semester:

Within six months from the time the student received the grade being appealed, the student must initiate the process with the instructor of the course for which the grade was received. This appeal process is strictly informal in nature and must remain a discussion between the student and the instructor of the course. The instructor's decision is final. There is no appeal procedure for final grades if six months of calendar time has elapsed.

### Course Forgiveness Policy

Courses completed at Calhoun may be repeated at Calhoun. The last grade earned excluding W, and AU will be the grade used for graduation audits. Courses may not be repeated at another institution and used as a

component of Calhoun's Course Forgiveness Policy.

1. If a student repeats a course once, the second grade (excluding grades of W, IP or AU) replaces the first grade in his/her cumulative grade point average if the student files a written request with the Admissions and Records Office.
2. When a course is repeated more than once, all grades for the course, excluding the first grade, will be employed in computation of the cumulative grade point average provided the student has requested course repeat as noted in item 1.
3. Transcripts will list all courses and the grades earned. A repeat symbol, 'R,' may denote a course repeat. Zero credit hours can also indicate a course repeat. A transfer institution may choose to average all coursework regardless of Calhoun's institutional policy.
4. A student must request, by submission of the appropriate form, that the Registrar implement the "Course Forgiveness" policy after a course has been repeated.

### Auditing a Course

Instructions for auditing a course at Calhoun are as follows:

- A. A student who desires to audit a course must be admitted to the College;
- B. The student's intent to audit a course must be made by the end of the registration/drop/add period and may not be changed thereafter. Students may not change from "Credit" to "Audit" or "Audit" to "Credit" after the drop/add period. The Registrar will designate the student's audit status on the class roll.
- C. The student who audits a course will complete the same assignments as students who register for credit. In addition, the instructor may require the student who audits to take examinations.
- D. Students may not audit any health science courses.
- E. The cost of auditing a course is the same as for taking a course for credit.

## ACADEMIC PROGRAM CHANGING

Request for a change of academic program should be submitted in writing to the Office of Admissions and Records.

Students should be aware of the possible consequences resulting from a change of academic program — transferability of courses completed, new requirements for graduation, job potential, limit on total number of courses for financial aid eligibility, etc. Students should confer with an advisor prior to initiating a change of academic program.

Students affected by VA regulations should consult Veterans Services staff in the Financial Aid Office prior to initiating a change of major.

## ACADEMIC BANKRUPTCY

- A. A student may request in writing to the Registrar a declaration of academic bankruptcy under the following conditions for coursework attempted with Calhoun:
  1. If fewer than three (3) calendar years have elapsed since the

semester for which the student wishes to declare bankruptcy, he/she may declare academic bankruptcy on all coursework taken during that one semester provided the student has completed a minimum of 18 semester hours of coursework at Calhoun since that semester. All coursework taken during the semester for which academic bankruptcy is declared, including hours completed satisfactorily, will be disregarded in the cumulative grade point average.

2. If three (3) or more calendar years have elapsed since the most recent semester for which the student wishes to declare bankruptcy, the student may declare academic bankruptcy on all coursework taken during 1-3 semesters/terms provided the student has completed a minimum of 18 semester hours of coursework at Calhoun since the bankruptcy semester occurred. All coursework taken, during semester(s) for which academic bankruptcy is declared, including hours completed satisfactorily, will be disregarded in the cumulative grade point average.

- B. When academic bankruptcy is declared, the transcript will reflect the semester of its implementation and the transcript will indicate "ACADEMIC BANKRUPTCY IMPLEMENTED."
- C. A student may declare academic bankruptcy only once.
- D. Implementation of academic bankruptcy at Calhoun does not guarantee that other institutions will approve such action. This determination will be made by the respective transfer institution(s).

### Student Course Overloads

A full-time student must be enrolled for 12 semester credit hours or more each term. Students may register for more than 19 semester credit hours only with the written permission of the Vice President for Academic Affairs or designee. No student will be approved for more than 24 semester credit hours in any one term for any reason. "Miniterms/minimesters" are only a part of a full term/semester and are not considered as stand-alone/individual terms. No more than two (2) laboratory courses will be approved as part of any overload request.

To be considered for an overload, the student must meet the following criteria:

1. Have successfully completed a minimum of 18 semester credit hours with Calhoun; and
2. have a minimum of a 3.0 GPA for all coursework completed at Calhoun.

## ADVANCED STANDING CREDIT

### Credit by Transfer

Refer to General Principles for Transfer of Credit on page 12.

### Credit from Nontraditional Sources

Calhoun Community College provides an opportunity for students to earn a reasonable amount of credit toward the Associate Degree or Certificate through methods other than formal classroom instruction. While nontraditional credit may apply toward degree and certificate programs

granted by the college, it should not be assumed that such credit will automatically be accepted by other colleges.

Not more than 25% of total credit required for any program may be awarded through nontraditional means towards a degree from Calhoun. Students may not earn credit through nontraditional sources for any course in which a grade has been previously received. The types of nontraditional credit and procedures to follow are listed below:

### COLLEGE LEVEL EXAMINATION PROGRAM-CLEP

Calhoun Community College honors credit earned through CLEP examinations provided appropriate scores are achieved and certain conditions are met. A minimum score at or above the 50th percentile is required for specific course credit.

Any elective credit earned by nontraditional means may apply toward the total number of hours required for graduation but may not apply toward specific requirements in a particular subject area. For example, elective credit in English will not meet degree requirements of six hours of composition.

Credit for SUBJECT EXAMINATIONS may be granted provided the student has not been enrolled for more than one week in the course for which credit is to be earned. CLEP credit is not granted for college level courses previously failed, for courses in which credit for higher level course work has been earned, or for both subject examination and its course equivalent. The CLEP Subject Exam will supersede the CLEP General Exam; credits will not be awarded for the Subject and General Exam in the same discipline. Only elective credit will be given for general exams.

### CLEP SUBJECT EXAMINATIONS

*Scores for computer based tests only.*

Examination	Approx. Score	CCC Equivalent	Sem. Hrs.
<b>Business</b>			
Financial Accounting.....	50	BUS 241 .....	3
Information Systems and Computer Applications.....	50	CIS 130.....	3
<b>Examination Approx. Score CCC Equivalent Sem. Hrs.</b>			
Management, Prin .....	50	BUS 275 .....	3
Marketing, Prin .....	50	BUS 285 .....	3

### Composition and Literature

American Literature .....	50	ENG 251-252 .....	6
College Comp .....	50	ENG 101-102 .....	6
College Comp. Modular .....	50	ENG 101 .....	3
English Literature .....	50	ENG 261-262 .....	6

### Science and Mathematics

Biology .....	50	BIO 103-104 .....	4-8
Calculus.....	50	MTH 125.....	4
Chemistry.....	50	CHM 111-112 .....	8
Pre-calculus .....	50	MTH 112.....	3
College Algebra.....	50	MTH 100.....	3

## Social Sciences

American Government.....	50	POL 211.....	3
Human Growth & Dev. ....	50	PSY 210.....	3
Macroeconomics .....	50	ECO 231.....	3
Microeconomics .....	50	ECO 232.....	3
Psychology, Intro.....	50	PSY 200.....	3
Sociology, Intro .....	50	SOC 200 .....	3
History of US to 1877 .....	50	HIS 201 .....	3
History of US II 1865-present .....	50	HIS 202 .....	3
Western Civ I .....	50	HIS 101 .....	3
Western Civ II .....	50	HIS 102 .....	3

## Foreign Language

Credit for CLEP French, German, and Spanish allowed. Check with Admissions or Advising for specific test and scores.

The scores listed above are reflective of the computerized CLEP examination. Students who have CLEP scores from a paper and pen examination should contact the Admissions and Records Office for minimum scores to determine credit awards. Scores are estimates and subject to change without notice.

The policy of granting credit through CLEP at Calhoun Community College may differ from policies at other colleges. Check with other colleges to obtain additional information. Area colleges offering the CLEP are Alabama A&M University, Athens State University, and UA Huntsville.

## POLICE ACADEMY WORK

Credit may be available for completion of approved Peace Officer Training Courses/Programs. Consult the Dean for Humanities and Social Sciences for information.

## SPECIALIZED MILITARY TRAINING

Calhoun adheres to policies prescribed by the Guide to the Evaluation of Educational Experiences in the Armed Services published by the American Council on Education, in granting credit for military course work.

## CREDIT FOR PRIOR EXPERIENCE

Credit may be granted through the following methods only:

1. Comprehensive Departmental Challenge Examinations;
2. CLEP General or Subject Examinations;
3. An evaluation of training as detailed in the National Guide to Educational Credit for Training Programs;
4. Professional Secretary Certification (CPS);
5. Other experiences which have been received by the American Council on Education and credit recommendations published.

## ADVANCED PLACEMENT TEST (AP)

Credit for the Advanced Placement Test will be awarded for a minimum score of three on subject tests. Not more than 25% of total credit required for any program may be awarded through non-traditional means towards a degree from Calhoun.

## INTERNATIONAL BACCALAUREATE (IB)

Credit may be awarded for IB courses provided:

- Calhoun Community College recognizes International Baccalaureate (IB) credit with a score of 4 on the higher level examinations.
- Reports of IB scores should be sent to the Calhoun Office of Admissions for evaluation.
- Additional credit may be awarded on a course-by-course basis as approved by the department associated with the student's program. The department will determine the application of credits toward degree requirements.
- Any credit awarded will be recorded without grades or quality points and will not be included in the calculation of grade point average.

## SPECIALIZED TRAINING WITH INDUSTRY

Credit may be awarded for industry training provided:

1. A specific contractual agreement is in effect.
2. Industry training has been reviewed by the appropriate faculty in the discipline affected or designee.
3. In no way shall this be interpreted as a means of reviewing industry training on an individual basis. Calhoun Community College does not conduct portfolio reviews.

## STATEWIDE AND LOCAL CAREER TECHNICAL ARTICULATION AGREEMENTS

Students who have completed technical coursework in high school and enroll in the same program with Calhoun Community College may be eligible to receive credit for the work completed in high school. Programs that are involved include, but are not limited to, Industrial Maintenance, Machine Tool Technology, Air Conditioning and Refrigeration, Electrical Technology, Design Drafting Technology, Health Science, Aerospace-Welding, Computer Science, Cosmetology, Business, Early Childhood Education, Cooperative Education, Graphic Design, and Photography.

To qualify for possible credit, a student must:

1. must have earned a "B" or higher in courses to be articulated,
2. must be admitted to Calhoun,
3. will be awarded credit only for courses in their program of study at the college, and
4. the student must request articulated credit no later than 16 months following high school graduation.

For specific information on programs, what credit may be awarded, and any other limitations, please contact the Dual Enrollment office at 256-306-2665 or 256-306-2671.

Calhoun also works with Career/Technical administrators and faculty in the high schools to develop **local articulation agreements**, which award college credit for identified high school coursework. Local agreements have been established in the areas of technology, business, computer information systems, graphic arts, child development and medical terminology. The articulated high school courses contain the same course content as an equivalent college course and Calhoun has agreed to award college credit to those students who meet the requirements outlined in the course articulation agreement. In order to receive articulated credit, through local agreements, a student must meet the same criteria outlined above.

## PROBATION AND SUSPENSION

### A. Academic Standards of Progress

According to the number of hours a student has attempted with Calhoun, the following GPA levels must be met to remain in good academic standing:

1. 12-21 credit hours attempted at Calhoun, minimum cumulative GPA of 1.50;
2. 22-32 credit hours attempted at Calhoun, minimum cumulative GPA of 1.75;
3. 33 credit hours or more attempted at Calhoun, minimum cumulative GPA of 2.00.

### B. Clear Academic Status

A student's status is clear when the cumulative GPA is at or above the GPA required for the total number of credit hours attempted at Calhoun.

### C. Academic Probation

1. When a student's cumulative GPA is below the GPA required for the number of hours attempted at Calhoun, the student is placed on Academic Probation.
2. When a student on Academic Probation has a cumulative GPA below the requirement based on hours attempted at Calhoun, but the semester GPA is 2.00 or above, the student remains on Academic Probation.

### D. SUSPENSION - ONE SEMESTER

When the cumulative GPA of a student on Academic Probation remains below the GPA required for the total number of hours attempted at Calhoun and the semester GPA is below 2.00, the student is suspended for one semester. The transcript will read SUSPENDED - ONE SEMESTER.

### E. SUSPENSION - ONE YEAR

A student readmitted after serving a suspension or upon appeal re-enters on Academic Probation. If the cumulative GPA remains below the level required for the total number of hours attempted at Calhoun and the semester GPA is below 2.00, the student will be suspended for one calendar year. The student's transcript will read SUSPENDED - ONE YEAR.

### F. APPEAL OF SUSPENSION

A student who wishes a reconsideration of his/her suspension, whether it is for one semester or for one year, must do so in writing to the College Admissions Committee. The student may present a rationale and/or mitigating circumstances in support of his/her request for readmission. The decision of the Admissions Committee for an appeal is final.

## ATTENDANCE

College instructors are required to provide a syllabus to each student enrolled in their course. The syllabus establishes the instructor's expectations, policies, procedures, course content, course schedule, and other information defining the requirements of the course for the student. Upon receiving the syllabus, students are deemed to be on notice of its contents and are assumed to understand and abide by the expectations, policies, and procedures stated therein. Students who have questions regarding the syllabus should first consult their instructor and, if necessary,

the department chairperson before contacting the dean.

**If a student fails to officially withdraw from a course, this could result in a grade of F and adversely impact financial aid.**

### Final Examination Attendance

Attendance at final examinations is mandatory. Such examinations are administered in all academic subjects at the end of each semester in accordance with an examination schedule issued by the Dean or designee. Any student who must miss a final examination has the responsibility of notifying his/her instructor to make arrangements to take the final examination on an alternate date, if possible. This is accomplished by filling out a form entitled "Permission to Alter Final Examination Schedule" which may be obtained in divisional/departamental offices. One copy of the form is retained by the faculty member and one copy is retained by the student. Faculty members should not change the published class examination schedule without prior approval from the Dean or designee.

## RECOGNITION OF ACADEMIC EXCELLENCE

### President's List

Calhoun publishes a President's List at the end of each semester. The President's List contains the names of all students carrying 12 or more semester hours who have earned a grade point average of 4.00. Developmental courses will not count toward minimum course load requirement for academic recognition.

### Dean's List

Calhoun publishes a Dean's List at the end of each semester. The Dean's List contains the names of all students carrying 12 or more semester hours who have earned a grade point average of 3.50 through 3.99 and who have made no grade below a "C." Developmental courses will not count toward minimum course load requirement for academic recognition. The GPA is figured by semester, and the Dean's List is not based on the student's cumulative GPA.

### Phi Theta Kappa

Calhoun students who are enrolled in at least one course after the drop/add period ends each semester and who have at least a 3.5 cumulative GPA and have completed at least 12 semester hours creditable toward a two-year degree are invited to join the Sigma Lambda Chapter of Phi Theta Kappa, the International Honor Society of two-year colleges. Members must maintain at least a 3.0 cumulative GPA to retain membership. Phi Theta Kappa members may qualify for numerous scholarships to four-year colleges and universities throughout the United States. Phi Theta Kappa members are authorized to wear the prestigious gold membership pin after induction, and the distinctive gold tassel, honors stole and double honor cords at the Calhoun graduation ceremony. A graduating member will have the Phi Theta Kappa gold seal affixed to the awarded degree. The academic transcript of a member displays the Phi Theta Kappa designation. Membership in the organization is considered to be an asset on an employment resume.

### Sigma Kappa Delta

Sigma Kappa Delta is the English Honor Society for two-year colleges. Sigma Kappa Delta national headquarters is located at Calhoun Community College. The society strives to:

- Confer distinction for high achievement in English Language and Literature in undergraduate studies;

## GENERAL INFORMATION

- Provide, through its local chapters, cultural stimulation on college campuses and promote interest in literature and the English language in surrounding communities;
- Foster all aspects of the discipline of English, including literature, language, and writing;
- Promote exemplary character and good fellowship among its members; and
- Exhibit high standards of academic excellence and serve society by fostering literacy.

Sigma Kappa Delta's central purpose is to confer distinction upon students of the English language and literature in undergraduate studies. Our parent organization, Sigma Tau Delta, the International English Honor Society, is the proud sponsor of the National English Honor Society (NEHS). NEHS, a program of Sigma Tau Delta, serves students and faculty who share a commitment to excellence in English Language Arts.

Calhoun students must meet the following criteria for membership:

- Have completed a minimum of one college-level English Language (composition) or literature course at 100 level or above with a "B" average or better;
- Have completed at least 12 semester hours or the equivalent quarter hours of college credit; and
- Have a minimum 3.0 GPA on a 4.0 scale.

## DEGREES & GRADUATION

Calhoun Community College awards the following:

**Associate of Science degree:** designed for those students who plan to transfer to a four-year institution. The degree is comprised of at least 60 semester credit hours but no more than 64 semester credit hours. Specific requirements are outlined in this catalog.

**Associate of Applied Science degree:** designed for those students who plan to seek employment based upon the competencies and skills attained through these programs. While not designed to meet the needs of students who transfer to a four-year institution, portions of these programs may do so. The associate of applied science degrees are comprised of at least 60 semester credit hours, but no more than 76 semester credit hours. Specific requirements are outlined in this catalog.

**Certificates:** are below the degree level and are designed for students who plan to seek employment. There are two types of certificates, long-term and short-term. The long-term certificates are comprised of at least 30 semester credit hours, but no more than 60 semester credit hours. The short-term certificates are comprised of at least 9 semester credit hours, but no more than 29 semester credit hours. Specific requirements are outlined in this catalog.

Even if you plan on transferring to pursue a Bachelor's degree, receiving your Associate's degree from Calhoun Community College is valuable and a great milestone in your academic career.

Applying for graduation at Calhoun is easy. For comprehensive information, please visit the Graduation web page accessible from this link: <http://www.calhoun.edu/academics/graduation-information>.

### Degree Requirements

1. Applicants must satisfy requirements either as stated in the current

college catalog at the time of graduation, or as stated in any catalogs from the five (5) previous academic years. Students readmitted to Calhoun Community College will be required to update their catalog to the term of readmission.

2. Applicants must complete 60 - 76 semester hours of college credit work in a planned program of study. (Courses considered as developmental will not apply toward degree requirements.)
3. Applicants must earn a minimum overall grade point average of 2.00 for all courses attempted at the institution. A course may be counted only once for purposes of meeting graduation requirements.
4. Applicants must complete at least 25% of the total semester hours of degree requirements at Calhoun Community College to earn residency.
5. Applicants are expected to be enrolled during the semester the degree is earned. However, those students who are within five calendar years from the last semester of attendance at Calhoun and have transferred to another college or university are encouraged to transfer credits back to Calhoun to complete the requirements for a degree. Generally, a minimum grade of "C" is required in the courses transferred.
6. The application for graduation should be submitted at least one term prior to your planned term of graduation. Completing your application at least one term prior to graduation will allow the Admissions and Records Office time to perform a graduation audit and notify students of audit results. This process also allows time for adjustments to a student's academic plan, as needed. There is no cost to have your degree posted on your academic transcript. However, to receive a copy of your diploma, there is a \$25.00 non-refundable fee per diploma.
7. Applicants must clear all procedural, operational, and financial obligations to the College.

## GRADUATION HONORS

### Degree Recipients

At the time of graduation, the College uses the following designations to recognize the academic accomplishments of students who earn degrees:

**Cum Laude: 3.50 to 3.69 GPA**

**Magna Cum Laude: 3.70 to 3.89 GPA**

**Summa Cum Laude: 3.90 to 4.00 GPA**

To graduate with honor, a student must meet the grade point average requirements on all college level course work considered for degree requirements and has completed a minimum of 24 semester hours at Calhoun Community College. Developmental Studies classes and courses transferred in from other colleges or universities are not used in determining honors eligibility.

### Certificate Recipients

At the time of graduation, the College uses the following designations to recognize the academic accomplishments of students who earn certificates:

**With Distinction: 3.50 to 4.00 GPA**

## VISITING STUDENT PROGRAM

A cooperative arrangement exists with Alabama A & M University, Athens State University, Oakwood University, the University of Alabama in Huntsville, and Calhoun Community College. Under this arrangement, a student at any of the participating institutions may request permission to attend a class at one of the other schools. Conditions governing the granting of permission include the following:

1. The student must be a full-time student.
2. The student must have an overall "C" average.
3. The course desired must be unavailable at the student's home institution but be included in the student's home institution catalog.
4. The student's request must be approved by the student's advisor and other appropriate personnel.
5. Permission of the institution teaching the course is after its own students are accommodated.
6. Distance Education and CIS courses are restricted enrollment and are not normally available to visiting students.
7. Enrollment in courses is subject to appropriate prerequisite and/or placement testing.

Any student interested in participating in the Visiting Student Program should contact the Office of Admissions at the parent institution for additional information.

## **LIBRARY SERVICES**

<http://www.calhoun.edu/student-resources/library>

### **Mission:**

**We offer access to information and promote lifelong learning.**

### **Brewer Library, Decatur Campus**

The Albert P. Brewer Library is located on the Decatur campus. Print books, eBooks, online books, online databases, magazines and journals, newspapers, books-on-CD, and Reserve materials are included in the holdings.

Computer workstations provide access to print materials as well as 47,000 full text EBSCOhost electronic books (eBooks) through the Library Catalog found on the Library Web site.

Calhoun students (including Dual Enrollment) and employees have access to licensed, online databases offered through the Alabama Virtual Library plus databases licensed by the college. Thousands of magazines, journals, newspapers, and trade publications offer full-text articles. Off Campus access requires a Username (C Number) and Password (last name).

Workstations offer access to Microsoft Office 2016 application software (Word, Excel, Access, and PowerPoint). In addition, students can access MyCalhoun, Blackboard, Tegrity, Outlook and Starfish from workstations.

Reciprocal borrowing privileges are in place for all Calhoun students and faculty to borrow books at the libraries of Athens State University, Drake State Community and Technical College, and Alabama A&M University without a charge. The UAH Library charges a \$25 annual fee for the checkout of materials. All cooperating libraries require verification that the student is registered at Calhoun for the current semester. Community patrons are also invited and encouraged to register for a Calhoun Library Card. A driver's license and social security number are required for registration as a Borrower. One-on-one assistance in conducting library research and traditional reference services are offered by a librarian. Library instruction for classes (day and evening) can be scheduled by communicating with the Reference Librarian at 256-306-2777 or email [reference@calhoun.edu](mailto:reference@calhoun.edu).

The VIP Room is equipped with student workstations for hands-on use and

may be scheduled by instructors and other groups by calling the circulation staff at 256-306-2774. Learning space is available with technology for groups of students for collaborative study.

**TILT** (The Information Literacy Tutorial), is offered in ORI 110 and is customized by librarians to teach information literacy skills by introducing Library resources.

Personalized library instruction is offered to English 101 classes when instructors make the request. Online tutorials for searching selected databases and eReference guides are available through the Library Web site.

For more information, including hours, the Library blog, Twitter, and Facebook, please access the Library Web site.

### **Huntsville Campus Library**

The online Library Catalog offers access to print collections held at the HCL and Brewer Library as well as eBook and online book collections. More than 47,000 EBSCOhost eBooks offer online, full text content that support the academic programs. Credo Reference offers full text, online access to 550+ online reference books. When accessing an eBook off campus, you must enter a Username (C Number) and Password (last name).

Computers offer access to licensed, online databases provided by the Alabama Virtual Library plus databases licensed by the college. All licensed databases offer full text articles and are accessible remotely to authorized users via a Username (C Number) and Password (last name).

A collection of print magazines, journals, and newspapers is available for casual reading.

Librarians offer one-on-one assistance in conducting library research. Inquire at the Reference Desk in person, by telephone, or make a request via email at [reference@calhoun.edu](mailto:reference@calhoun.edu).

**TILT** (The Information Literacy Tutorial), offered in ORI 110, teaches the basics of information literacy and library instruction—how to select, access, evaluate and use information resources available to Calhoun students through the Brewer Library and Huntsville Campus Library.

Librarians offer personalized library instruction for English 101 classes upon request by the instructor—day, evening, and weekend. To schedule a class, call 256-890-4777 or email [reference@calhoun.edu](mailto:reference@calhoun.edu).

For more information, including hours, the Library blog, Twitter, and Facebook, please access the Library Web site.

## **SPECIAL PROGRAMS**

### **ADULT EDUCATION**

This program offers adults the opportunity to prepare for the WorkKeys, High School Equivalency test and the ASVAB. Alabama has chosen to award the GED® as the official High School Equivalency for the State. The Career Readiness Certificate (CRC) is also awarded to those Adult Education students who take the WorkKeys test in the areas of Applied Math, Reading for Information and Locating Information. A score of 3 will earn bronze, 4 silver and 5 a gold certificate.

## GENERAL INFORMATION

Persons who speak a foreign language have the opportunity to learn to speak English through our English as a Second Language (ESL) program.

Distance Learning is offered for Adult Education students who qualify and meet the minimum technology requirements.

Each participant in any Adult Education program begins by taking an assessment test to determine qualifications and his/her strengths and weaknesses. Instruction is on an individualized basis. Based upon the results of the Assessment test, the student and instructor design a program to help reach the student's goals. All Adult Education programs are free of charge.

Contact the Adult Education office at 256-306-2830 in Decatur or 256-890-4793 in Huntsville for additional information.

The Bridge Program is a series of fast-paced courses designed to prepare students for college level math and language classes. The program is open to all students with a GED or HS diploma who desire extra help before college. All classes are free. The Language Bridge program is a 7 week course, while the Math Bridge program is a 5 to 15 week course depending on need. You will need a photo ID and a copy of your COMPASS score to register. For Decatur site information please call the Decatur office at 256-306-2830; for Huntsville site information please call the Huntsville Office at 256-713-4805.

Adult Education students also have access to our counseling services to explore educational and career pathways. Assistance is offered with the steps and skills related to transitioning to both college and the workforce. Contact the Transition Counseling office at 256-890-4810.

### High School Equivalency Options - GED® Test

Calhoun Community College's high school equivalency option is the GED® Test. Our primary mission is to provide a reliable process for certifying that adults possess the major and lasting outcomes of a traditional high school education. Calhoun Community College accepts the GED® diploma as well as other diploma options as a component for admission. To register for the GED:

- You must register on line at [ged.com](http://ged.com) and set up a Student account.
- Test fees are paid on-line at [ged.com](http://ged.com) using a credit or debit card. Students enrolled in Adult Education classes may be eligible for a fee waiver of \$100 of the \$120 fee for the entire test through the use of vouchers. Each of the four (4) sections of the test may be taken individually or grouped together.
- Special accommodations are available upon approval. Go to: [gedtestingservice.com/accommodations](http://gedtestingservice.com/accommodations)

The GED® test is administered at both the Decatur and Huntsville campuses.

## COOPERATIVE EDUCATION

Calhoun Community College's Cooperative Education Program affords students the opportunity to acquire on-the-job experience before graduation by combining studies at Calhoun with a related work experience in business/industry. The program offers two work plans, the Parallel Plan and the Alternating Plan. The Parallel Plan allows the student to work on a part-time or full-time basis (a minimum of 20 hours per week) in a job directly related to his/her academic major while attending school. Under the Alternating Plan, students alternate semesters of study at Calhoun with semesters of full-time work in business/industry. Cooperative education is also available to students already working in a job that is related to their major. Students participating in the Cooperative Education Program receive college credit for their work experience.

### Requirements

To be eligible for consideration for the program, an applicant must:

1. Complete and submit the following:
  - i. Email Resume in MS Word format to Co Op Coordinator
  - ii. Give Instructor Recommendation Form to lead Instructor in Major
  - iii. Application (bring completed form to Co Op Meeting)
  - iv. Transcript Release Form (bring completed form to Co Op Meeting)
  - v. Schedule and attend meeting with the Co Op Coordinator
2. Currently enrolled at Calhoun Community College
3. Be pursuing an Associate's Degree and have declared major in field for which student is applying for Co-Op
4. Have/Maintain an overall 2.5 GPA (minimum)
5. Be a minimum of 18 years old
6. Be eligible for employment in the United States
7. Adhere to Calhoun's Attendance Policy
8. Agree to be enrolled in the related Calhoun Co Op Class if selected
9. Adhere to company-specific personnel policies including those regarding time and attendance
10. Completed the following coursework – based on College Program:
  - a. **TECHNOLOGIES:** a minimum of 12 credit hours to include:
    - ADM 100, Industrial Safety (a grade of "C" or better), and
    - ADM 101, Precision Measurement – OR – ADM 106, Quality Control Concepts (a grade of "C" or better)
  - b. **PRE-ENGINEERING:** a minimum of 33 credit hours and
    - Calculus II (a grade of "C" or better)
    - Physics I (a grade of "C" or better)
  - c. **ACCOUNTING:** a minimum of 18 credit hours with a grade of "C" or better in the following
    - BUS 215, Business Communications- OR -
    - ENG 101 English Composition I
    - BUS 241, Principles of Accounting I
    - CIS 146, Microcomputer Applications
  - d. **CIS:** a minimum of 12 credit hours with a grade of "C" or better
    - Microcomputer Applications**
      - CIS 146 Microcomputer Application
      - CIS 147 Advanced Microcomputer Applications
      - One additional class in the Microsoft Office app
    - Networking Technology**
      - CIS 263 Computer Maintenance
      - CIS 270 Cisco I
      - CIS 271 Cisco II
    - Programming**
      - CIS 201 Intro to Computer Programming Concepts
      - Two class sequence in one programming language (e.g. CIS 251/252 or CIS 255/256)
    - Web Development (E-Commerce)**
      - CIS 207 Intro to Web Development
      - CIS 208 Web Authoring Systems
      - CIS 250 E-Commerce

### Application Procedures

Students who wish to be considered for the Cooperative Education Program should complete the following steps:

1. Check requirements and confirm that all prerequisites are met.

2. Print and fill out all application forms. Forms can be at [www.calhoun.edu/cooperation](http://www.calhoun.edu/cooperation).
3. Give Lead Instructor in major a recommendation form. Form is found on the website, [www.calhoun.edu/cooperation](http://www.calhoun.edu/cooperation). Lead Instructor must recommend the student and return the completed form to the Co-op Coordinator before a meeting will be scheduled.
4. Set up an appointment and meet with Calhoun's Co-op Coordinator.
5. Contact the Co-Op Office at 256-306-2515 with any questions.

## DISTANCE LEARNING

Distance Learning focuses on utilizing technology and teaching methods to provide instruction to students outside the regular classroom and thereby increase flexibility and scheduling options. There are two types of Distance Learning courses at Calhoun: hybrid and online.

- A hybrid course is one in which a majority of instruction is delivered in a structured alternative delivery format including, but not limited to, the Internet and/or other off-campus formats. Calhoun identifies a hybrid course with an "H" in the course schedule.
- An online course is one in which instruction is delivered entirely online through Blackboard, a course management system. Although the course content is delivered entirely online, students may be required to take exams in the Testing Center on either campus, or at an approved testing location. Calhoun identifies an online course with a "W" in the course schedule.

Both hybrid and online courses require a reliable and current computer and Internet access, preferably high-speed. Additionally, Distance Learning courses require computer literacy and reading comprehension skills, as well as self-discipline and motivation. Students register for Distance Learning courses in the same way they register for traditional courses. For additional Information, please visit our website, [www.calhoun.edu](http://www.calhoun.edu).

## WEEKEND COLLEGE

Weekend College is available at the Huntsville Campus location. For more information regarding weekend classes in Huntsville, call 256-890-4701. The semester schedule includes all weekend course offerings.

## STATEWIDE TRANSFER AND ARTICULATION REPORTING SYSTEM (STARS)

In order to assist Calhoun Community College students with the transferring of courses to other institutions of higher education in the state, Calhoun is a full member in the Statewide Transfer and Articulation Reporting System (STARS).

The STARS computerized advising system has been created to inform students of the courses that they can take and transfer among public institutions within the State of Alabama without losing credit. Go to the STARS website at <http://stars.troy.edu>.

## CALHOUN WORKFORCE SOLUTIONS (CWS)

Increasing the productivity of the existing workforce is one of the sure-fire ways of increasing the profitability of local companies in a very tight labor market. Continuous training and retraining of the workforce is important to the viability of local companies. The Calhoun Workforce Solutions (CWS) group provides customized, flexible, cost-effective and convenient training to local businesses and industries throughout north Alabama allowing them to achieve and maintain peak efficiency in the global marketplace.

CWS works one-on-one with companies to develop solutions to equip today's employees with the skills of tomorrow.

**Professional Development:** CWS offers a variety of online and traditional facilitator-led professional development opportunities including WorkKeys Testing and Assessments, Industrial Maintenance Online theory training, Education To Go online training, and Leadership training. For more information, call 256-306-2585.

**Industrial Technologies:** CWS offers learning opportunities in the following areas: Arc Flash Training, Industrial Maintenance, Construction Trades Training, OSHA Safety Training, Pre-Apprenticeship programs (NCCER, Welding, Pipe Fitting, Electrical and Line Worker), Renewable Energy, Fundamentals of Blow Molding, and Water Operator Certification. For more information, call 256-306-2664.

**Professional Certifications/Computer IT Operations:** CWS provides local area companies and nontraditional students with timely training and preparation for the workforce. Companies have an option to take advantage of the regularly scheduled courses, or CWS can customize training to meet client requirements. Calhoun is a recognized Certiport Center for third-party testing. Opportunities include CISSP, Certified Ethical Hacker, Microsoft Office 2013, CompTIA Network+, CompTIA A+, CompTIA Security+, Cisco Certified Network Associate, and customized computer network training. For more information, call 256-306-2584.

**Professional Certifications/Healthcare Certifications:** CWS delivers certification preparation in areas such as Clinical Medical Assistant, Medical Administrative Assistant, Medical Billing and Coding, Pharmacy Technician, Phlebotomy, and EKG Technician. For more information, call 256-306-2515.

**Professional Certifications/Quality Training:** In conjunction with local industry partners, CWS offers refresher courses for ASQ certification in areas such as: Certified Quality Auditor (CQA), Certified Calibration Technician (CCT), Certified Quality Improvement Associate (CQIA), Certified Six Sigma Green Belt (CSSGB), Certified Six Sigma Black Belt (CSSBB), Certified Software Quality Engineer (CSQE), and Certified Quality Engineer (CQE). Facilitators are local working quality professionals. Companies have an option to take advantage of the regularly scheduled courses. In addition, CWS can customize training to meet client requirements. For more information, call 256-306-2584.

**Commercial Truck Driving Training (CDL):** The CDL Training program provides driver license testing information and training for unskilled drivers who wish to have a commercial driver's license (CDL) and endorsements. This course includes information on federal requirements for the state's standards for the licensing of commercial drivers. To receive a CDL, you must pass knowledge and skills tests. This training will assist you in preparing to pass the written and road tests. Classes are conducted every month. Certificates are presented upon successful completion of the training. Trucking recruiters are available to meet with students to provide information regarding job opportunities. Contact the CDL office for more information, call 256-260-2462.

**Workforce Testing and Assessments:** Calhoun is a nationally recognized ACT Testing Center. CWS conducts ACT WorkKeys Profiling to local business and industry clients to determine the basic skills needed for specific jobs. In addition, the ACT Center delivers ACT WorkKeys Assessments (Testing) to measure "real world" skills that employers believe

are critical to job success. Assessments are available in the following areas: Applied Technology, Applied Math, Listening, Location Information, Observation, Reading for Information, Teamwork, and Writing. Additionally, the ACT Center offers ACT WorkKeys Test Prep, Paraprofessional Teacher Aide Testing, Myers-Briggs (MBTI), The Birkman Method (TBM), National Career Readiness Certificate (CRC), and a variety of online licensure and certifications exams. Third-Party Examination Proctoring is also available. Proctoring fees may apply. For more information, call 256-306-2637.

**Supervisor/Manager Leadership Training:** This training integrates learning principles and concepts with exercises and tools to help participants transfer the training from the classroom to their job performance. Program content is based on business objectives to ensure that employees have the skills they need to drive the business forward. The training is characterized by: a modular approach to content development, customized exercises, and post-training follow-up to enhance skill development and integration. For more information, call 256-306-2515.

## COMMUNITY EDUCATION CLASSES

Online classes for fun and personal development!

### Education To Go - Online Courses

Calhoun Community College, in partnership with Education 2 Go, offers more than 300 highly interactive courses that you can take entirely over the Internet. All of our courses include expert instructors, many of whom are nationally known authors. Most courses start as low as \$109.00. Our online courses are affordable, fun, fast, convenient, and geared just for you. A certificate of completion is available upon successful completion of the course. Courses are offered in

- **Career and Professional** (Accounting, Business and Management, Teaching and Education, Grant Writing and Non-profit, Health Care, Law and Legal, Sales and Marketing, Start Your Own Business and Veterinary)
- **Computers and Technology** (Computer Applications, Basic Computer Literacy, Web and Computer Programming, Database Management, Graphic and Multi-Media Design, The Internet, and PC Networking and Security)
- **Writing and Publishing** (Business Writing, Creative Writing, Publishing)
- **Personal Development** (Arts, Personal Enrichment, Children, Parents and Family, Digital Photography, Personal Finance, Health and Wellness, Job Search, Languages, and Test Prep)

All courses run for six weeks, with a two-week grace period at the end. Two lessons are released every Wednesday and Friday by noon Eastern time for the six-week duration of the course. You do not have to be present when lessons are released. You will have access to all lessons until the course ends. New sections start monthly!

For a complete listing of courses available and registration, visit our website at <http://www.ed2go.com/calhouncalul/>.



# PROGRAMS OF STUDY



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## ELECTIVES

FOR PURPOSES OF FULFILLING PROGRAM REQUIREMENTS, CALHOUN PROVIDES THE FOLLOWING DEFINITIONS:

### AREAS RECOMMENDED AS HUMANITIES AT CALHOUN

Courses in humanities ideally serve to give the student a broader understanding of the dimensions of man, the human condition, and human culture. The student may select courses from the following areas to satisfy Calhoun requirements (A=Fine Arts, H=Humanities):

Art (A)  
Foreign Language (H)  
Literature (H)  
Music (A)  
Philosophy (H)  
Religion (H)  
Theatre (A)

### AREAS RECOMMENDED AS SOCIAL AND/ OR BEHAVIORAL SCIENCES AT CALHOUN

Courses in the social sciences should give the student a broader understanding of social systems and the ways in which human beings relate to each other and to socio-economic-political conditions. At Calhoun, students may select courses from the following areas to satisfy Calhoun requirements:

Anthropology  
Economics  
Geography  
History  
Political Science  
Psychology  
Sociology

### AREAS RECOMMENDED AS NATURAL SCIENCES AT CALHOUN

Courses in the natural sciences are based on investigation of natural phenomena through the processes of reason based on systematic empirical observation. At Calhoun, the student may select courses from the following areas to satisfy Calhoun requirements:

Astronomy  
Biology  
Chemistry  
Physical Geography  
Physical Science  
Physics

Each student should work closely with his/her advisor to determine the course preference for transfer to a specific program, college, or university.

**Calhoun Community College has general educational outcomes expected of all graduates. All students graduating from Calhoun Community College will have competencies in critical thinking; communication; quantitative reasoning; scientific reasoning; cultural literacy, information and computer literacy and diversity. In each of the general education courses, students will cultivate these skills.**

# AWARDS CONFERRED BY CALHOUN COMMUNITY COLLEGE

**Associate of Science Degree:** The Associate of Science (A.S.) degree in General Studies is the award conferred on students who wish to transfer to an Alabama senior institution and pursue a Bachelor's Degree (B.S. or B.A.) The Associate's degree is comprised of five areas (Area I-V) intended to provide the student with a foundation of general education courses in Areas I-IV and more specific courses that provide a base in the pre-major area of study in Area V.

**Associate of Applied Science Degree:** The Associate of Applied Science (A.A.S.) degree is the award conferred on students who wish to complete two years of education at the community college level and then enter the workforce. While many courses taken in an A.A.S. degree program will transfer to an Alabama senior institution, the degree is not designed as a transfer degree.

**Certificate:** The certificate is the award conferred on students who wish to train or retrain in a specific field or skill and enter or re-enter the workplace with a new or more advanced skill set.

## BEGINNING FALL 2012

*All first-time freshmen are required to enroll in ORI 110, Freshman Seminar, during their first semester at Calhoun Community College.*

## ACADEMIC PROGRAMS

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

Calhoun Community College students graduating with the Associate of Science (A.S.) degree may transfer with junior status into a variety of majors at Alabama public colleges and universities. The courses completed in the A.S. degree must be those approved by the Articulation and General Studies Committee (AGSC) as listed in the STARS Guide.

To achieve junior status upon transferring to an Alabama public college or university the student must:

1. Print and sign a dated STARS Guide for the major at the college/university to which the student plans to transfer. It is recommended that the student do this prior to or during the first semester at Calhoun.
2. Complete all coursework at Calhoun as outlined by the STARS Guide;
3. Transfer within four years from the date printed on the original, signed STARS Guide;
4. Upon transfer, take the original, signed and dated STARS Guide to the transfer college/university.

### STATEWIDE TRANSFER AND ARTICULATION REPORTING SYSTEM (STARS)

The Statewide Transfer and Articulation Reporting System (STARS) is a web-accessible data-base system which provides guidance and direction to streamline the transfer process for students who transfer to an Alabama public college or university from an Alabama community college. STARS may be accessed at [stars.troy.edu](http://stars.troy.edu). Courses listed in a STARS Transfer Guide/Agreement are approved by the Articulation and General Studies Committee (AGSC) for transfer and outline the first two years of coursework relative to a major and are intended to serve as pre-major/pre-professional curricula.

If the STARS Guide (also called an Articulation Agreement) is followed and the declared major is not changed, a student can transfer to an Alabama public college or university without loss of credit. For more information, consult an academic advisor and visit the STARS website at [stars.troy.edu](http://stars.troy.edu).

Students must accept the final responsibility of becoming familiar with the requirements of the Alabama public college or university to which they may transfer. Changing from one major to another, at the same transfer school, may result in the student having to take additional courses. Students should consult program advisors at their transfer schools.

The Articulation/STARS Agreement is divided into Areas I – V. Areas I – IV consist of 41 – 42 semester credit hours and are referred to as the General Education Requirements. The remaining 19 – 23 semester credit hours, called Area V, consists of courses from the student's chosen major or area of concentration. A student should consult STARS ([stars.troy.edu](http://stars.troy.edu)) and the specific institution's Area V page for more detailed information.

### ASSOCIATE OF SCIENCE DEGREES (A.S.) AREAS OF CONCENTRATION

#### General Studies – Art AS.GENED.GART

#### General Education Core Requirements

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II.....	3
*Literature Electives.....	3-6
Fine Arts Elective.....	3
Humanities Elective .....	3-6
Natural Science Electives.....	8
MTH 110 Finite Math or higher.....	3
*History Electives.....	3-6
Social/Behavioral Science Electives.....	6-9

**Total .....** 42 credit hours

#### Major Course Requirements

ART 113 Drawing I.....	3
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# ASSOCIATE OF SCIENCE DEGREES (A.S.)

## AREAS OF CONCENTRATION (cont'd)

ART 114 Drawing II.....	3
ART 121 Two-Dimensional Composition I.....	3
ART 127 Three Dimensional Composition.....	3
ART 203 Art History I.....	3
ART 204 Art History II.....	3

**Total ..... 18 credit hours**

**Total Credits ..... 60 credit hours**

\*Must complete a two-course sequence in either Literature or History

### General Studies – Biology AS.GENED.GBIO

Students planning to pursue transfer to a four-year university should complete a STARS guide and Area V program of study to an Alabama university (or contact the transfer institution if out of state for transferability guidance) to ensure transfer readiness and satisfaction of course and program requirements. Some four year institutions require two semesters of Physics rather than Organic Chemistry as part of the degree program. Talk with your Calhoun advisor and complete an official STARS guide to guarantee your program of study for transfer is correct.

#### General Education Core Requirements

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II.....	3
*Literature Electives.....	3-6
Fine Arts Elective.....	3
Humanities Elective .....	3-6
BIO 103 Principles of Biology I.....	4
BIO 104 Principles of Biology II.....	4
**MTH 112 Precalculus Algebra or higher.....	3
*History Electives.....	3-6
Social/Behavioral Science Electives .....	6-9

**Total ..... 42 credit hours**

#### Major Course Requirements

CHM 111 College Chemistry I .....	4
CHM 112 College Chemistry II .....	4
***CHM 221 Organic Chemistry I .....	4
***CHM 222 Organic Chemistry II OR .....	4
PHY 213 Physics w/Calculus I.....	4
PHY 214 Physics w/Calculus II.....	4
**MTH 125 Calculus I .....	4
CIS 146 Microcomputer Applications.....	3

**Total ..... 23 credit hours**

**Total Credits ..... 65 credit hours**

\*Must complete a two-course sequence in either Literature or History

\*\*MTH 113 is required as the prerequisite to MTH 125 Calculus I

\*\*\*Select CHM 221/222 or PHY 213/214 based on your transfer institution degree plan

### General Studies – Biotechnology

#### AS.GENED.GBOT

The Biotechnology degree option is not guaranteed for transfer by the state STARS program. Students using this as a guide toward a four-year program are strongly encouraged to contact senior institutions for transferability and satisfaction of prerequisites in the specific program.

#### General Education Core Requirements

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II.....	3
*Literature Electives.....	3-6
Fine Arts Elective.....	3
Humanities Elective .....	3-6
BIO 103 Principles of Biology I.....	4
CHM 111 College Chemistry I .....	4
MTH 112 Precalculus Algebra or higher.....	3
*History Electives.....	3-6
Social/Behavioral Science Electives .....	6-9

**Total ..... 42 credit hours**

#### Major Course Requirements

CHM 112 College Chemistry II .....	4
BIO 105 Introduction to Biotechnology .....	4
BIO 107 Cell Culture.....	4
BIO 203 Techniques in Molecular Biology .....	4
BIO 252 Directed Studies in Biotechnology.....	2
BIO 254 Advanced Topics in Biotechnology.....	2
BIO 256 Biotechnology Internship.....	2

**Total ..... 22 credit hours**

**Total Credits ..... 64 hours**

\*Must complete a two-course sequence in either Literature or History

### General Studies – Business AS.GENED.GBUS

#### General Education Core Requirements

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II.....	3
*Literature Electives.....	3-6
Fine Arts Elective.....	3
Humanities Elective .....	3
Natural Science Electives.....	8
MTH 112 Precalculus Algebra or higher.....	3
ECO 231 Principles of Macroeconomics.....	3
ECO 232 Principles of Microeconomics.....	3
Social/Behavioral Science Elective.....	3
*History Electives.....	3-6

**Total ..... 42 credit hours**

#### Major Course Requirements

BUS 241 Principles of Accounting I .....	3
BUS 242 Principles of Accounting II.....	3
BUS 263 Legal & Social Environment of Business .....	3
BUS 271 Business Statistics I .....	3

## PROGRAMS OF STUDY

BUS 272 Business Statistics II*	3
CIS 146 Microcomputer Applications	3
MTH 120 Calculus & Its Applications† OR MTH 125 Calculus I†	3/4

**Total ..... 21/22 credit hours**

**Total Credits ..... 63/64 credit hours**

\*Must complete a two-course sequence in either Literature or History

\*Students transferring to Alabama or Auburn should consult an advisor before registering for BUS272.

†Students transferring to Athens State University should substitute either BUS247 or BUS276, both of which transfer to Athens State. Students transferring to UNA, UAB, or Jacksonville State should consult an advisor for an appropriate substitution.

### General Studies – Chemistry AS.GENED.GCHM

Students planning to pursue transfer to a four-year university should complete a STARS guide and Area V program of study to an Alabama university (or contact the transfer institution if out of state for transferability guidance) to ensure transfer readiness and satisfaction of course and program requirements. Talk with your Calhoun advisor and complete an official STARS guide to guarantee your program of study for transfer is correct.

#### General Education Core Requirements

ORI 110 Freshman Seminar	1
ENG 101 English Composition I	3
ENG 102 English Composition I	3
*Literature Electives	3-6
Fine Arts Elective	3
Humanities Elective	3-6
CHM 111 College Chemistry I	4
CHM 112 College Chemistry II	4
MTH 125 Calculus I	4
*History Electives	3-6
Social/Behavioral Science Electives	6-9

**Total ..... 42 credit hours**

#### Major Course Requirements

CHM 221 Organic Chemistry I	4
CHM 222 Organic Chemistry II	4
PHY 213 Physics w/Calculus I	4
PHY 214 Physics w/Calculus II	4
MTH 126 Calculus II	4
CIS 146 Microcomputer Applications	3

**Total ..... 23 credit hours**

**Total Credits ..... 65 credit hours**

\*Must complete a two-course sequence in either Literature or History

### General Studies – Computer Science AS.GENED.GCIS

#### General Education Core Requirements

ORI 110 Freshman Seminar	1
ENG 101 English Composition I	3

ENG 102 English Composition II	3
*Literature Electives	3-6
Fine Arts Elective	3
Humanities Electives	3-6
Natural Science Sequence	8
MTH 112 Precalculus Algebra or higher	3
*History Electives	3-6
Social/Behavioral Science Electives	6-9

**Total ..... 42 credit hours**

#### Major Course Requirements

MTH 113 Precalculus Trigonometry	3
MTH 125 Calculus I	4
MTH 126 Calculus II	4
CIS 251 C++ Programming	3
General Electives	5

**Total ..... 19 credit hours**

**Total Credits ..... 61 credit hours**

\*Must complete a two-course sequence in either Literature or History

### General Studies – Criminal Justice AS.GENED.GCRJ

Students planning to pursue transfer to a four-year university should complete a STARS guide and Area V program of study to an Alabama university (or contact the transfer institution if out of state for transferability guidance) to ensure transfer readiness and satisfaction of course and program requirements. Talk with your Calhoun advisor and complete an official STARS guide to guarantee your program of study for transfer is correct. Visit stars.troy.edu for the accurate class selection.

#### General Education Core Requirements

ORI 110 Freshman Seminar	1
ENG 101 English Composition I	3
ENG 102 English Composition II	3
*Literature Elective	3-6
Fine Arts Elective	3
Humanities Elective	3-6
Natural Science Electives	8
MTH 110 Finite Mathematics or higher	3
*History Electives	3-6
Social or Behavioral Science Electives	6-9

**Total ..... 42 credit hours**

#### Major Course Requirements

*Electives must be selected from the Area V page of an Alabama transfer school or contact the transfer institution if out of state for elective choices.*

CRJ 100 Introduction to Criminal Justice	3
CRJ Elective (select from CRJ 110, CRJ 150, or CRJ 160)	3
CRJ Elective	3
CIS 146 Microcomputer Applications	3
General Electives	7

**Total ..... 19 credit hours**

**Total Credits ..... 61 credit hours**  
\*Must complete a two-course sequence in either Literature or History

**General Studies – Elementary Education**  
**AS.GENED.GEED**

**General Education Core Requirements**

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II.....	3
*Literature Electives.....	3-6
Fine Arts Elective.....	3
Humanities Elective .....	3
SPH 106 Fundamentals/Oral Communication .....	3
OR SPH 107 Fundamentals of Public Speaking .....	
Natural Science Elective .....	4
BIO 103 Principles of Biology I.....	4
MTH 110 Finite Mathematics or higher .....	3
*History Electives.....	3-6
PSY 200 General Psychology .....	3
Social/Behavioral Science Electives .....	3-6

**Total ..... 42 credit hours**

**Major Course Requirements**

Natural Science Elective .....	4
Mathematics Electives (lower level MTH100 .....	6
Or above, not to include remedial)	
Mathematics Elective (upper level MTH110 or higher).....	3
CIS 146 Microcomputer Applications.....	3
PSY 210 Human Growth and Development .....	3
General Electives.....	1

**Total ..... 20 credit hours**

**Total Credits ..... 62 credit hours**  
\*Must complete a two-course sequence in either Literature or History

**General Studies – English**  
**AS.GENED.GENG**

**General Education Core Requirements**

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II.....	3
Literature Sequence .....	6
Fine Arts Elective.....	3
SPH 106 Fundamentals/Oral Communication .....	3
OR SPH 107 Fundamentals of Public Speaking .....	
Natural Science Electives.....	8
MTH 110 Finite Mathematics or higher .....	3
History Elective .....	3
Social/Behavioral Science Electives .....	9

**Total ..... 42 credit hours**

**Major Course Requirements**

Additional Literature Sequence.....	6
CIS 146 Microcomputer Applications.....	3
General Electives .....	
(6 hrs of Foreign Language Sequence recommended).....	10

**Total ..... 19 credit hours**

**Total Credits ..... 61 credit hours**

**General Studies – General Education**  
**AS.GENED.GNST**

Students planning to pursue transfer to a four-year university should complete a STARS guide and Area V program of study to an Alabama university (or contact the transfer institution if out of state for transferability guidance) to ensure transfer readiness and satisfaction of course and program requirements. Talk with your Calhoun advisor and complete an official STARS guide to guarantee your program of study for transfer is correct. Visit [stars.troy.edu](http://stars.troy.edu) for the accurate class selection.

**General Education Core Requirements**

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II .....	3
*Literature Elective .....	3-6
Fine Art Elective .....	3
Humanities Elective .....	3-6
Natural Science Electives .....	8
MTH 110 Finite Mathematics or higher .....	3
*History Electives .....	3-6
Social or Behavioral Science Electives.....	6-9

**Total ..... 42 credit hours**

**Major Course Requirements**

Electives must be selected from the Area V page of an Alabama transfer school or contact the transfer institution if out of state for elective choices.

**General Electives ..... 19**

**Total ..... 19 credit hours**

**Total Credits ..... 61 credit hours**

\*Must complete a two-course sequence in either Literature or History  
\*\*Must check with transfer institution concerning a sequence in both Literature, History and the Natural Science area.

**General Studies – History**  
**AS.GENED.GHIS**

**General Education Core Requirements**

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II.....	3
Literature Elective .....	3
Fine Arts Elective.....	3
Humanities Elective .....	3
SPH 106 Fundamentals/Oral Communication .....	3

## PROGRAMS OF STUDY

OR SPH 107 Fundamentals of Public Speaking	
Natural Science Electives	8
MTH 110 Finite Mathematics or higher	3
HIS 121 World History I	3
HIS 122 World History II	3
Social/Behavioral Science Electives	6

**Total ..... 42 credit hours**

### Major Course Requirements

HIS 201 US History I	3
HIS 202 US History II	3
CIS 146 Microcomputer Applications	3
General Electives	10

**Total ..... 19 credit hours**

**Total Credits ..... 61 credit hours**

## General Studies – Mathematics AS.GENED.GMTH

### General Education Core Requirements

ORI 110 Freshman Seminar	1
ENG 101 English Composition I	3
ENG 102 English Composition I	3
*Literature Electives	3-6
Fine Arts Elective	3
Humanities Elective	3
SPH 106 Fundamentals/Oral Communication	3
OR SPH 107 Fundamentals of Public Speaking	
PHY 213 General Physics with Calculus I	4
PHY 214 General Physics with Calculus II	4
MTH 113 Precalculus Trigonometry	3
*History Electives	3-6
Social/Behavioral Science Electives	6-9

**Total ..... 45 credit hours**

### Major Course Requirements

MTH 125 Calculus I	4
MTH 126 Calculus II	4
MTH 227 Calculus III	4
MTH 237 Linear Algebra	3
CIS 251 C++ Programming	3

**Total ..... 18 credit hours**

**Total Credits ..... 63 credit hours**

\*Must complete a two-course sequence in either Literature or History

## General Studies – Music AS.GENED.GMUS

### General Education Core Requirements

ORI 110 Freshman Seminar	1
ENG 101 English Composition I	3
ENG 102 English Composition II	3

*Literature Electives	3-6
MUS 101 Music Appreciation	3
**Foreign Language	4
Humanities Electives	0-3
Natural Science Electives	8
MTH 110 Finite Mathematics or higher	3
*History Electives	3-6
Social/Behavioral Science Electives	6-9

**Total ..... 43 credit hours**

### Major Course Requirements

**Foreign Language	4
***MUS 111 Music Theory I	3
MUS 113 Music Theory I Lab	1
MUS 112 Music Theory II	3
MUS 114 Music Theory II Lab	1
MUP Electives-must include four	5
semesters in a major instrument and one semester in a secondary instrument	
MUL Electives in Ensembles (MUL 180 and above)	4

**Total ..... 21 credit hours**

**Total Credit ..... 64 credit hours**

\*Must complete a two-course sequence in either Literature or History\*\*  
Foreign language should be taken as a two-course sequence

\*\*\* Requires minimum grade of C in MUS 110 or acceptable score on placement test (75%)

## General Studies – Physics AS.GENED.GPHY

Students planning to pursue transfer to a four-year university should complete a STARS guide and Area V program of study to an Alabama university (or contact the transfer institution if out of state for transferability guidance) to ensure transfer readiness and satisfaction of course and program requirements. Talk with your Calhoun advisor and complete an official STARS guide to guarantee your program of study for transfer is correct.

### General Education Core Requirements

ORI 110 Freshman Seminar	1
ENG 101 English Composition I	3
ENG 102 English Composition II	3
*Literature Elective	3-6
Fine Arts Elective	3
Humanities Elective	3-6
PHY 213 General Physics with Calculus I	4
PHY 214 General Physics with Calculus II	4
MTH 125 Calculus I	4
*History Electives	3-6
Social or Behavioral Science Electives	6-9

**Total ..... 37 credit hours**

### Major Course Requirements

CHM 111 College Chemistry I	4
CHM 112 College Chemistry II	4
MTH 126 Calculus II	4
MTH 227 Calculus III	4
CIS 146 Microcomputer Applications	3
General Electives	6

**Total ..... 25 credit hours**

**Total Credits ..... 62 credit hours**

\*Must complete a two-course sequence in either Literature or History

### General Studies – Pre-Engineering

#### AS.GENED.GEGR

Students planning to pursue transfer to a four-year university should complete a STARS guide and Area V program of study to an Alabama university (or contact the transfer institution if out of state for transferability guidance) to ensure transfer readiness and satisfaction of course and program requirements. Talk with your Calhoun advisor and complete an official STARS guide to guarantee your program of study for transfer is correct.

#### General Education Core Requirements

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II .....	3
*Literature Elective .....	3
Fine Arts Elective .....	3
Humanities Elective .....	3
PHY 213 General Physics with Calculus I .....	4
PHY 214 General Physics with Calculus II .....	4
MTH 125 Calculus I .....	4
*History Elective .....	3
History/Social/Behavioral Science Electives .....	6

**Total ..... 37 credit hours**

#### Major Course Requirements

MTH 126 Calculus II .....	4
MTH 227 Calculus III .....	4
CHM 111 College Chemistry I .....	4
MTH 238 Applied Differential Equations .....	3
General Electives .....	10

**Total ..... 25 credit hours**

**Total Credits ..... 62 credit hours**

\*Must complete a two-course sequence in either Literature or History

### General Studies – Pre Nursing

#### AS.GENED.GNUR

#### General Education Core Requirements

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II .....	3
*Literature Electives .....	3-6
Fine Arts Elective .....	3
Humanities Elective .....	0-3
SPH 106 Fundamentals/Oral Communication .....	3
OR SPH 107 Fundamentals of Public Speaking .....	
CHM 104 Introduction to Inorganic Chemistry .....	4
BIO 103 Principles of Biology .....	4
MTH 110 Finite Mathematics or higher .....	3
*History Electives .....	3-6
PSY 200 General Psychology .....	3
PSY 210 Human Growth and Development .....	3

Social/Behavioral Science Electives .....0-3

**Total ..... 42 credit hours**

#### Major Course Requirements

BIO 201 Human Anatomy and Physiology I .....	4
BIO 202 Human Anatomy and Physiology II .....	4
BIO 220 Microbiology .....	4
MTH 265 Elementary Statistics .....	3
General Electives (PHL 206 Ethics and Society highly recommended) .....	4

**Total ..... 19 credit hours**

**Total Credits ..... 61 credit hours**

\*Must complete a two-course sequence in either Literature or History

### General Studies – Psychology

#### AS.GENED.GPSY

Students planning to pursue transfer to a four-year university should complete a STARS guide and Area V program of study to an Alabama university (or contact the transfer institution if out of state for transferability guidance) to ensure transfer readiness and satisfaction of course and program requirements. Talk with your Calhoun advisor and complete an official STARS guide to guarantee your program of study for transfer is correct. Visit stars.troy.edu for the accurate class selection.

#### General Education Core Requirements

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II .....	3
*Literature Elective .....	3-6
Fine Arts Elective .....	3
Humanities Elective .....	3-6
Natural Science Electives .....	8
MTH 110 Finite Mathematics or higher .....	3
*History Electives .....	3-6
Social or Behavioral Science Electives .....	6-9

**Total ..... 42 credit hours**

#### Major Course Requirements

*Electives must be selected from the Area V page of an Alabama transfer school or contact the transfer institution if out of state for elective choices.*

PSY 200 General Psychology .....	3
Psychology Electives .....	6
CIS 146 Microcomputer Applications .....	3
General Electives .....	7

**Total ..... 19 credit hours**

**Total Credits ..... 61 credit hours**

### General Studies – Social Work

#### AS.GENED.GSWT

Students planning to pursue transfer to a four-year university should complete a STARS guide and Area V program of study to an Alabama university (or contact the transfer institution if out of state for transferability guidance) to ensure transfer readiness and satisfaction of course and program requirements. Talk with your Calhoun advisor and complete an official STARS guide to guarantee your program of study for transfer is correct. Visit stars.troy.edu for the accurate class selection.

**General Education Core Requirements**

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II .....	3
*Literature Electives .....	3-6
Fine Arts Elective .....	3
Humanities Elective .....	3-6
BIO 103 Principles of Biology I .....	4
Natural Science Elective .....	4
MTH 110 Finite Mathematics or higher .....	3
*History Electives .....	3-6
PSY 200 General Psychology .....	3
SOC 200 Introduction to Sociology .....	3
Social or Behavioral Science Electives.....	0-3

**Total ..... 42 credit hours**

**Major Course Requirements**

*General Electives must be selected from the Area V page of an Alabama transfer school or contact the transfer institution if out of state for elective choices.*

MTH 265 Elementary Statistics OR	
PSY 260 Statistics for the Social Sciences.....	3
ECO 231 Principles of Macroeconomics.....	3
General Electives .....	13

**Total ..... 19 credit hours**

**Total Credits ..... 61 credit hours**

\*Must complete a two-course sequence in either Literature or History

**General Studies – Sociology**

**AS.GENED.GSOC**

Students planning to pursue transfer to a four-year university should complete a STARS guide and Area V program of study to an Alabama university (or contact the transfer institution if out of state for transferability guidance) to ensure transfer readiness and satisfaction of course and program requirements. Talk with your Calhoun advisor and complete an official STARS guide to guarantee your program of study for transfer is correct. Visit [stars.troy.edu](http://stars.troy.edu) for the accurate class selection.

**General Education Core Requirements**

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II.....	3
*Literature Elective .....	3-6
Fine Arts Elective .....	3
Humanities Elective .....	3-6
BIO 103 Principles of Biology I .....	4
Natural Science Elective .....	4
MTH 110 Finite Mathematics or higher .....	3
*History Electives .....	3-6
SOC 200 Introduction to Sociology .....	3
Social or Behavioral Science Electives.....	3-6

**Total ..... 42 credit hours**

**Major Course Requirements**

*General Electives must be selected from the Area V page of an Alabama transfer*

*school or contact the transfer institution if out of state for elective choices.*

CIS 146 Microcomputer Applications.....	3
Sociology Electives .....	6
General Electives .....	10

**Total ..... 19 credit hours**

**Total Credits ..... 61 credit hours**

\*Must complete a two-course sequence in either Literature or History

\*\*Must check with transfer institution concerning a sequence in both Literature, History and the Natural Science area.

**General Studies – Theatre**

**AS.GENED.GTHR**

**General Education Core Requirements**

ORI 110 Freshman Seminar .....	1
ENG 101 English Composition I .....	3
ENG 102 English Composition II.....	3
Literature Sequence .....	6
THR 120 Theatre Appreciation .....	3
SPH 107 Introduction to Public Speaking .....	3
Natural Science Electives.....	8
MTH 110 or MTH 112 .....	3
History Elective .....	3
History or Social/Behavioral Science Electives .....	9

**Total ..... 42 credit hours**

**Major Course Requirements**

THR 113 Theatre Workshop I.....	2
THR 131 Acting Techniques I .....	3
THR 241 Voice & Speech for the Perform. ....	3
General electives* .....	11-13

**Total ..... 19-21 credit hours**

**Total Credits ..... 61-63 credit hours**

\*Students should consult their STARS guide and the AREA V page of their planned transfer institution to select general electives and meet with a Calhoun academic advisor to finalize a plan for graduation.

# ASSOCIATE OF APPLIED SCIENCE DEGREES (A.A.S.) & CERTIFICATES

**NOTE: All first-time freshmen are now required to enroll in ORI 110.**

## ADVANCED MANUFACTURING

The Associate of Applied Science Degree in Advanced Manufacturing will prepare graduates for employment in various technical career paths including aerospace technology, air conditioning & refrigeration, automation/robotics, design drafting, electrical technology, industrial maintenance (electrical, HVAC, instrumentation, and mechanical), machine tool technology, and process technology. Graduates will be prepared to work in a team-centered environment with demanding quality and safety standards. This program also provides enhancement training for individuals seeking skill advancement in their current positions. Graduates may also choose to pursue a baccalaureate degree in appropriate academic areas.

ARS 153	Gas Tungsten Arc & Plasma Arc Welding .....	3
ARS 251	Specialized Welding Processes .....	3
ARS 253	Welding Certification Preparation .....	3

**TOTAL.....70**

## AEROSPACE TECHNOLOGY/AEROSPACE FUNDAMENTALS Short Term Certificate

This program is subject to the Credit to Clock Hour conversion as defined by Title IV and may not be fully funded with Title IV funds (Pell Grant, SEOG and Direct Student Loan)

**Program Code: STC.ADM.AERF**

**CIP CODE: 15.0613**

### AEROSPACE FUNDAMENTALS COURSE REQUIREMENTS:

ADM 106	Quality Control Concepts .....	3
ADM 111	Manufacturing Safety Practices .....	3
MTT 121	Print Reading .....	3
ARS 151	Welding Principles/Theory/Symbols .....	3
ARS 176	Electrical/Electronic Assembly .....	3
ARS 178	Aerospace Mechanical Assembly .....	3
ARS 278	Composite Materials Assembly .....	3
ARS 280	Surface Preparation & Coatings .....	3

**TOTAL.....24**

## AEROSPACE TECHNOLOGY

The Associate of Applied Science Degree in Advanced Manufacturing with a concentration in Aerospace Technology will prepare graduates for employment in aerospace and related industries through classroom and laboratory instruction in propulsion structure and assembly or welding.

## AEROSPACE TECHNOLOGY/WELDING Associate of Applied Science Degree Advanced Manufacturing

**Program Code: AAS.ADMA.AERW**

**CIP CODE: 15.0613**

### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective	.....	3
Social Science Elective	.....	3
Natural Science or MTH Elective	.....	3
CIS 146	Microcomputer Applications .....	3

### ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:

ADM 101	Precision Measurement .....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems .....	3
ADM 106	Quality Control Concepts .....	3
ADM 107	CAD Concepts .....	3
ADM 111	Manufacturing Safety Practices .....	3

### AEROSPACE FUNDAMENTAL COURSE REQUIREMENTS:

MTT 121	Print Reading .....	3
ARS 151	Welding Principles/Theory/Symbols .....	3
ARS 176	Electrical/Electronic Assembly .....	3
ARS 178	Aerospace Mechanical Assembly .....	3
ARS 279	Advanced Composite Materials Fab/Assembly .....	3
ARS 280	Surface Preparation & Coatings .....	3
ARS 282	Integrated Assembly Project .....	3

### AEROSPACE/WELDING COURSE REQUIREMENTS:

## AEROSPACE TECHNOLOGY/STRUCTURES & ASSEMBLY Associate of Applied Science Degree Advanced Manufacturing

**Program Code: AAS.ADMA.AERS**

**CIP CODE: 15.0613**

### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective	.....	3
Social Science Elective	.....	3
Natural Science or MTH Elective	.....	3
CIS 146	Microcomputer Applications .....	3

### ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:

ADM 101	Precision Measurement .....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems .....	3
ADM 106	Quality Control Concepts .....	3
ADM 107	CAD Concepts .....	3
ADM 111	Manufacturing Safety Practices .....	3

### AEROSPACE FUNDAMENTAL COURSE REQUIREMENTS:

MTT 121	Print Reading .....	3
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## PROGRAMS OF STUDY

ARS 151	Welding Principles/Theory/Symbols.....	3
ARS 176	Electrical/Electronic Assembly .....	3
ARS 178	Aerospace Mechanical Assembly .....	3
ARS 279	Advanced Composite Materials Fab/Assembly .....	3
ARS 280	Surface Preparation & Coatings.....	3
ARS 282	Integrated Assembly Project .....	3

### AEROSPACE/STRUCTURES & ASSEMBLY COURSE REQUIREMENTS:

ARS 276	Instrumentation Attachments & Adhesive Bonding Procedures.....	3
ARS 278	Composite Materials Assembly.....	3
ARS 284	Specialized Coating Processes.....	3

**TOTAL.....70**

## AIR CONDITIONING & REFRIGERATION

The Associate of Applied Science Degree with a concentration in Air Conditioning and Refrigeration is designed to train the student to become an air conditioning and refrigeration technician. The student in the program learns to install and repair air conditioning and refrigeration equipment in office buildings, factories, homes, food stores, restaurants, theaters, and other establishments. The practical experiences provide proficiency in cutting pipe and repair and maintenance of refrigeration and air conditioning equipment along with load and duct design.

### AIR CONDITIONING & REFRIGERATION Associate of Applied Science Degree Advanced Manufacturing

**Program Code: AAS.ADMA.ACRA CIP CODE: 15.0613**

#### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar.....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communication OR SPH 107 Fundamentals of Public Speaking .....	3
	Humanities Elective .....	3
	Social Science Electives .....	3
	Natural Science or MTH Elective .....	3
CIS 146	Microcomputer Applications .....	3

#### ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:

ADM 101	Precision Measurement.....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems.....	3
ADM 106	Quality Control Concepts.....	3
ADM 107	CAD Concepts.....	3
ADM 111	Manufacturing Safety Practices .....	3

#### AIR CONDITIONING & REFRIGERATION CORE CLASSES:

ACR 113	Refrigeration Piping Practices.....	3
ACR 119	Fundamentals of Gas Heating Systems .....	3
ACR 120	Fundamentals of Electric Heating Systems.....	3
ACR 121	Principles of Electricity for HVACR .....	3

ACR 122	HVACR Electrical Circuits.....	3
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#### AIR CONDITIONING ELECTIVES: (Choose 15 - 18 credit hours)

ACR 112	HVAC Service Procedures.....	3
ACR 123	HVACR Electrical Components .....	3
ACR 126	Commercial Heating Systems.....	3
ACR 128	Heat Load Calculations.....	3
ACR 132	Residential Air Conditioning .....	3
ACR 135	Mechanical Gas Safety Codes .....	3
ACR 138	Customer Relations in HVAC.....	3
ACR 141	Environmental Systems .....	4
ACR 147	Refrigeration Transition & Recovery .....	3
ACR 148	Heat Pump Systems I .....	3
ACR 149	Heat Pump Systems II .....	3
ACR 151	Duct Design & Fabrication.....	6
ACR 187	Special Topics in ACR.....	5
ACR 200	Review for Contractors Exam .....	3
ACR 203	Commercial Refrigeration .....	3
ACR 205	System Sizing & Air Distribution .....	3
ACR 209	Commercial Air Conditioning .....	3

**TOTAL..... 70 - 73**

### AIR CONDITIONING AND REFRIGERATION Short Term Certificate

**This certificate program is not eligible for Title IV funding  
(Pell Grant, SEOG and Direct Student Loan)**

**Program Code: STC.ADMX.ACR CIP CODE: 15.0613**

#### AIR CONDITIONING & REFRIGERATION COURSE REQUIREMENTS:

ADM 104	Thermal Electrical Principles .....	3
ADM 111	Manufacturing Safety Practices .....	3
ACR 113	Refrigeration Piping Practices .....	3
ACR 119	Fundamentals of Gas Heating .....	3
ACR 120	Fundamentals of Electric Heating .....	3

**TOTAL.....15**

### AIR CONDITIONING AND REFRIGERATION/ ACR FUNDAMENTALS Short Term Certificate

**This certificate program is not eligible for Title IV funding  
(Pell Grant, SEOG and Direct Student Loan)**

**Program Code: STC.ADMX.ACRF CIP CODE: 15.0613**

#### AIR CONDITIONING & REFRIGERATION FUNDAMENTALS COURSE REQUIREMENTS:

ACR 113	Refrigeration Piping Practices .....	3
ACR 119	Fundamentals of Gas Heating Systems.....	3
ACR 120	Fundamentals of Electric Heating Systems .....	3
ACR 121	Principles of Electricity for HVACR.....	3
ACR 122	HVACR Electrical Circuits.....	3

**TOTAL.....15**

## AIR CONDITIONING AND REFRIGERATION/ ADVANCED ACR Short Term Certificate

**This certificate program is not eligible for Title IV funding  
(Pell Grant, SEOG and Direct Student Loan)**

**Program Code: STC.ADMX.ACRA                      CIP CODE: 15.0613**

### ADVANCED ACR COURSE REQUIREMENTS:

ACR 123	HVACR Electrical Components .....	3
ACR 132	Residential Air Conditioning .....	3
ACR 147	Refrigeration Transition & Recovery .....	3
ACR 148	Heat Pump Systems I .....	3
ACR 149	Heat Pump Systems II .....	3
ACR 205	System Sizing & Air Distribution .....	3

**TOTAL.....18**

## ROBOTICS/MECHATRONICS

The Associate of Applied Science Degree in Advanced Manufacturing with a concentration in Automation/ Mechatronics will prepare graduates for entry-level employment in industrial automation. Concepts covered in this concentration will include a Mechatronic approach to training; programmable logic controllers (Allen Bradley and Siemens); digital fundamentals; interfacing microcomputers to electro-mechanical devices; and flexible manufacturing cells.

## ROBOTICS/MECHATRONICS Associate of Applied Science Degree Advanced Manufacturing

**Program Code: AAS.ADMA.AUTM                      CIP CODE: 15.0613**

### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
	Humanities Elective .....	3
	Social Science Elective .....	3
	Natural Science or MTH Elective .....	3
CIS 146	Microcomputer Applications.....	3

### ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:

ADM 101	Precision Measurement.....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems.....	3
ADM 106	Quality Control Concepts.....	3
ADM 107	CAD Concepts.....	3
ADM 111	Manufacturing Safety Practices .....	3

### BASIC ELECTRICITY COURSE REQUIREMENTS:

ELT 108	DC Fundamentals.....	3
ELT 109	AC Fundamentals.....	3
ELT 117	AC/DC Machines.....	3

ELT 110	Wiring Methods .....	3
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### AUTOMATION FUNDAMENTALS COURSE REQUIREMENTS:

ELT 209	Motor Controls I .....	3
ELT 231	Introduction to Programmable Controllers .....	3
ELT 232	Advanced Programmable Controllers.....	3
ILT 163	Digital Fundamentals .....	3

### AUTOMATION/ROBOTICS COURSE REQUIREMENTS:

ILT 235	Principles of Robotic Systems.....	3
ILT 236	Principles of Robotic Programming.....	2
ADM 250	Introduction to Flexible Manufacturing Cells .....	4

**TOTAL.....73**

## ROBOTICS/MECHATRONICS Advanced Certificate

**Students must meet with Automation/ Mechatronics  
instructors to determine if they have the credentials and  
competencies required to be eligible to start this certificate**

**This program is subject to the Credit to Clock Hour conversion as defined by Title IV and  
may not be fully funded with Title IV funds (Pell Grant, SEOG and Direct Student Loan)**

**Program Code: STC.ADM.AUAM                      CIP CODE: 15.0613**

### AUTOMATION FUNDAMENTALS COURSE REQUIREMENTS:

ELT 209	Motor Controls I .....	3
ELT 212	Motor Controls II .....	3
INT 117	Principles of Industrial Mechanics.....	3
MTT 139	Introduction to Computer Numeric Control .....	3
ARS 151	Welding Theory, Principles & Symbols .....	3
ADM 200	Industrial Robotic Safety.....	3
ADM 232, 233, 234, 235, 236, 237, 238, or 239	Applied Industrial Robotics .....	6

**TOTAL.....24**

## ROBOTICS/MECHATRONICS Short Term Certificate

**Program Code: STC.ADM.AUTM                      CIP CODE: 15.0613**

### AUTOMATION/ROBOTICS COURSE REQUIREMENTS:

ELT 108	DC Fundamentals.....	3
ELT 109	AC Fundamentals.....	3
ELT 209	Motor Controls I .....	3
ELT 231	Introduction to Programmable Controllers .....	3
ELT 232	Advanced Programmable Controllers.....	3
ILT 163	Digital Fundamentals.....	3
ILT 235	Principles of Robotic Systems.....	3
ILT 236	Principles of Robotic Programming.....	2
ADM 250	Introduction to Flexible Manufacturing Cells .....	4

**TOTAL.....27**

## DESIGN DRAFTING TECHNOLOGY

The Associate's Degree of Advanced Manufacturing with a concentration in Design Drafting will prepare students to obtain an entry-level position in a high technology society. This degree is comprised of courses that emphasize design, industry standards (ANSI, AM, AIA, etc.), critical thinking, real-life applications and drafting for the architectural, engineering, and additive manufacturing fields. The Architectural Design Technology, Engineering Design Technology, and Additive Manufacturing Design Technology degree paths will augment students' learning by coupling theory instruction and demonstration with hands-on application using current software. Software includes, but is not limited to, SOLIDWORKS, Revit, SolidEdge, Insight, Materialise, and AutoCad. Students will obtain the skills needed to be successful in planning, developing, and producing final construction documents. Students will enhance their abilities by learning the soft skills necessary to help them obtain a position in the design technologies career market.

Graduates will be qualified to seek positions in the following fields: 3D Designer, 3D Solid Modeler, Additive Technician, 3D Printing Operator, CAD Technician, Manufacturing Technician, Prototyping Technician, Production Technician, Reverse Engineering Technician, SOLIDWORKS Designer, BIM Designer, BIM Manager, CAD/3D/BIM Design Drafter, Detailer, Architectural/Engineering Design Drafter, Survey Technician, Architectural/Engineering Drawing Checker, and Instructor. The Advanced Manufacturing Classes (ADM) classes will enhance the students' skill set to help them obtain advanced positions in this field of study.

### ENGINEERING DESIGN TECHNOLOGY Associate of Applied Science Degree Advanced Manufacturing

**Program Code: AAS.ADMA.DDEM CIP CODE: 15.0613**

#### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics* .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective .....		3
Social Science Elective .....		3
Natural Science or MTH Elective** .....		3
CIS 146	Microcomputer Applications .....	3

\* MTH 113 or MTH 115 is recommended

\*\* Physical Science or a higher Math is recommended

#### APPLIED TECHNOLOGY CORE COURSE REQUIREMENTS:

ADM 101	Precision Measurement .....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems .....	3
ADM 106	Quality Control Concepts .....	3
ADM 107	CAD Concepts .....	3
ADM 111	Manufacturing Safety Practices .....	3

#### ENGINEERING COURSE REQUIREMENTS:

ADM 108	Intro. to 3D Modeling* .....	3
ADM 112	Orientation to Additive Manufacturing .....	1
ADM 114	Design Innovation .....	3
ADM 208	Intermediate 3D Modeling* .....	3
ADM 255	Applications to Design (Capstone) .....	3
DDT 111	Fundamentals of Drafting .....	3
DDT 124	Basic Technical Drafting .....	3
DDT 215	G&D Tolerance .....	3
DDT 244	Adv. 3D Modeling* .....	3
DDT 260	Portfolio .....	3
DDT/ADM Electives - See DDT Instructor for list of electives .....		4-6

**\* Solid Works is used for instruction in these classes for industry driven application**

**TOTAL.....72-74**

**\*DESIGN DRAFTING STUDENTS SHOULD TAKE ADM 107, ADM 112 AND DDT 111 IN THEIR FIRST SEMESTER.**

### ENGINEERING DESIGN TECHNOLOGY Short Term Certificate

**Program Code: STC.ADM.DDEM**

**CIP CODE: 15.0613**

ADM 107	CAD Concepts .....	3
ADM 108	Intro to 3D Modeling .....	3
ADM 112	Orientation to Additive Manufacturing .....	1
ADM 114	Design Innovation .....	3
ADM 208	Intermediate 3D Modeling* .....	3
ADM 255	Applications of Design (Capstone) .....	3
DDT 111	Fundamentals of Drafting .....	3
DDT 124	Basic Technical Drafting .....	3
Electives .....		3
(Choose DDT 215 G&D Tolerance or DDT 224 Advanced 3D Modeling*)		

**\* Solid Works is used for instruction in these classes for industry driven application**

**TOTAL.....25**

**\*DESIGN DRAFTING STUDENTS SHOULD TAKE ADM 107, ADM 112 AND DDT 111 IN THEIR FIRST SEMESTER.**

### ARCHITECTURAL DESIGN TECHNOLOGY Associate of Applied Science Degree Advanced Manufacturing

**Program Code: AAS.ADMA.DDBA**

**CIP CODE: 15.0613**

#### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics* .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective .....		3
Social Science Elective .....		3
Natural Science or MTH Elective** .....		3

CIS 146 Microcomputer Applications ..... 3

**\* MTH 113 is recommended**

**\*\* Physical Science or MTH 113 or MTH 125 is recommended**

**APPLIED TECHNOLOGY CORE COURSE REQUIREMENTS:**

ADM 101 Precision Measurement..... 3  
ADM 104 Introduction to Thermal/Electrical Principles ..... 3  
ADM 105 Fluid Systems ..... 3  
ADM 106 Quality Control Concepts ..... 3  
ADM 107 CAD Concepts ..... 3  
ADM 111 Manufacturing Safety Practices ..... 3

**ARCHITECTURAL COURSE REQUIREMENTS:**

ADM 112 Orientation to Additive Manufacturing ..... 1  
ADM 114 Design Innovation..... 3  
ADM 255 Applications of Design (Capstone) ..... 3  
DDT 109 Intro. To Building Information Modeling (BIM)\* ..... 3  
DDT 111 Fundamentals of Drafting\* ..... 3  
DDT 132 Architectural Drafting ..... 3  
DDT 213 Civil Drafting..... 3  
DDT 222 Advanced Architectural\* ..... 3  
DDT 225 Structural Steel Drafting ..... 3  
DDT 260 Portfolio..... 3  
DDT/ADM Electives - See DDT Instructor for list of electives..... 4-6

**\* Revit is used for instruction in these classes for industry driven application**

**TOTAL.....72-74**

**\*DESIGN DRAFTING STUDENTS SHOULD TAKE ADM 107, ADM 112 AND DDT 111 IN THEIR FIRST SEMESTER.**

**ARCHITECTURAL DESIGN TECHNOLOGY  
Short Term Certificate**

**Program Code: STC.ADM.DDBA CIP CODE: 15.0613**

ADM 107 CAD Concepts ..... 3  
ADM 112 Orientation to Additive Manufacturing ..... 1  
ADM 114 Design Innovation ..... 3  
ADM 255 Applications of Design (Capstone) ..... 3  
DDT 109 Intro. to Building Information Modeling (BIM)\* ..... 3  
DDT 111 Fundamentals of Drafting ..... 3  
DDT 132 Architectural Drafting ..... 3  
DDT 222 Advanced Architectural\* ..... 3  
Electives (Choose DDT 213 Civil Drafting or DDT 225 Structural Steel Drafting) ..... 3

**\*Revit is used for instruction in these classes for industry driven application**

**TOTAL.....25**

**\*DESIGN DRAFTING STUDENTS SHOULD TAKE ADM 107, ADM 112 AND DDT 111 IN THEIR FIRST SEMESTER.**

**ADDITIVE MANUFACTURING**

**DESIGN TECHNOLOGY  
Associate of Applied Science Degree  
Advanced Manufacturing**

**Program Code: AAS.ADMA.DDAD**

**CIP CODE: 15.0613**

**GENERAL EDUCATION CORE REQUIREMENTS:**

ORI 110 Freshman Seminar ..... 1  
ENG 101 English Composition ..... 3  
MTH 103 Introduction to Technical Mathematics ..... 3  
SPH 106 Fundamentals of Oral Communication OR  
SPH 107 Fundamentals of Public Speaking ..... 3  
Humanities Elective ..... 3  
Social Science Elective..... 3  
Natural Science or MTH Elective ..... 3  
CIS 146 Microcomputer Applications ..... 3

**ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:**

ADM 101 Precision Measurement..... 3  
ADM 104 Introduction to Thermal/Electrical Principles ..... 3  
ADM 105 Fluid Systems..... 3  
ADM 106 Quality Control Concepts ..... 3  
ADM 107 CAD Concepts ..... 3  
ADM 111 Manufacturing Safety Practices ..... 3

**ADDITIVE MANUFACTURING REQUIREMENTS:**

ADM 108 Introduction to 3D Modeling\* ..... 3  
ADM 112 Orientation to Additive Manufacturing ..... 1  
ADM 114 Innovated Design ..... 3  
ADM 157 Material Properties ..... 3  
ADM 162 Additive Manuf. Processes – Polymers ..... 3  
ADM 164 Additive Manuf. Processes – Metals ..... 3  
ADM 209 Metal Materials Post Processing..... 3  
ADM 255 Applications of Design (Capstone) ..... 3  
DDT 260 Portfolio..... 3  
ADM 261 Reverse Engineering/Quality Inspections..... 3  
DDT/ADM Electives - See DDT Instructor for list of electives..... 4-6

**\*You may take any 3D Modeling or BIM Class as a substitute for ADM 108**

**TOTAL.....72-74**

**\*DESIGN DRAFTING STUDENTS SHOULD TAKE ADM 107, ADM 112 AND DDT 111 IN THEIR FIRST SEMESTER.**

**ADDITIVE MANUFACTURING  
DESIGN TECHNOLOGY  
Short Term Certificate**

**Program Code: STC.ADM.DDAD**

**CIP CODE: 15.0613**

**ADDITIVE MANUFACTURING REQUIREMENTS:**

ADM 108 Introduction to 3D Modeling\* ..... 3  
ADM 112 Orientation to Additive Manufacturing ..... 1  
ADM 114 Innovated Design ..... 3

## PROGRAMS OF STUDY

ADM 157	Material Properties .....	3
ADM 162	Additive Manuf. Processes – Polymers.....	3
ADM 164	Additive Manuf. Processes – Metals.....	3
ADM 255	Applications of Design (Capstone) .....	3
ADM 261	Reverse Engineering/Quality Inspections.....	3
DDT/ADM Electives - See DDT Instructor for list of electives.....		3
<b>TOTAL.....</b>		<b>25</b>

**\*You may take any 3D Modeling or BIM Class as a substitute for ADM 108**

**\*DESIGN DRAFTING STUDENTS SHOULD TAKE ADM 107, ADM 112 AND DDT 111 IN THEIR FIRST SEMESTER.**

### DESIGN DRAFTING Short Term Certificate

**This certificate program is not eligible for Title IV funding (Pell Grant, SEOG, and Direct Student Loans)**

**Program Code: STC.ADMX.DDT                      CIP Code: 15.0613**

ADM 107	CAD Concepts .....	3
ADM 111	Manufacturing Safety Practices .....	3
DDT 111	Fundamentals of Drafting .....	3
DDT 124	Basic Technical Drafting .....	3
DDT Elective .....		3
Choose from DDT 109 – Introduction to BIM or DDT 144 Basic 3D Modeling		
<b>TOTAL .....</b>		<b>15</b>

### ELECTRICAL TECHNOLOGY

The Associate of Applied Science Degree in Advanced Manufacturing with a concentration in Electrical Technology will prepare graduates to be an entry-level electrician/electrician's helper. Concepts covered in the concentration include AC/DC theory, wiring methods, conduit bending, NEC Codes, fundamentals of programmable logic controllers, and distribution systems.

### ELECTRICAL TECHNOLOGY Associate of Applied Science Degree Advanced Manufacturing

**Program Code: AAS.ADMA.ELT                      CIP CODE: 15.0613**

#### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective .....		3
Social Science Elective.....		3
Natural Science or MTH Elective .....		3
CIS 146	Microcomputer Applications.....	3

#### ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:

ADM 101	Precision Measurement.....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems.....	3
ADM 106	Quality Control Concepts.....	3
ADM 107	CAD Concepts.....	3
ADM 111	Manufacturing Safety Practices .....	3

#### BASIC ELECTRICITY COURSE REQUIREMENTS:

ELT 108	DC Fundamentals.....	3
ELT 109	AC Fundamentals.....	3
ELT 110	Wiring Methods .....	3
ELT 117	AC/DC Machines.....	3

#### ENTRY LEVEL ELECTRICIAN COURSE REQUIREMENTS:

ELT 114	Residential Wiring.....	3
ELT 118	Commercial/Industrial Wiring.....	3
ELT 209	Motor Controls I .....	3
ELT 241	National Electric Code .....	3

#### RESIDENTIAL/COMMERCIAL/INDUSTRIAL COURSE REQUIREMENTS:

ELT 212	Motor Controls II .....	3
ELT 231	Programmable Controls I .....	3
ELT 232	Advanced Programmable Controllers.....	3

**TOTAL.....73**

### ELECTRICAL TECHNOLOGY Short Term Certificate

**This certificate is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loans)**

**Program Code: STC.ADMX.ELT                      CIP CODE: 15.0613**

#### ELECTRICAL TECHNOLOGY COURSE REQUIREMENTS:

ADM 111	Manufacturing Safety Practices .....	3
ELT 108	DC Fundamentals .....	3
ELT 109	AC Fundamentals .....	3
ELT 110	Wiring Methods .....	3
ELT 114	Residential Wiring .....	3

**TOTAL.....15**

### ELECTRICAL TECHNOLOGY ENTRY LEVEL ELECTRICIAN Short Term Certificate

**Program Code: STC.ADM.ELTE                      CIP CODE: 15.0613**

#### ENTRY LEVEL ELECTRICIAN COURSE REQUIREMENTS:

ELT 108	DC Fundamentals.....	3
ELT 109	AC Fundamentals.....	3
ELT 110	Wiring Methods .....	3
ELT 114	Residential Wiring Methods.....	3
ELT 118	Commercial/Industrial Wiring.....	3

ELT 117	AC/DC Machines.....	3
ELT 209	Motor Controls I .....	3
ELT 241	National Electric Code .....	3

**TOTAL.....24**

### INDUSTRIAL ENERGY SPECIALIST

The Associate of Applied Science degree in Advanced Manufacturing with a concentration in Industrial Energy Specialist is designed to prepare graduates to support the state of Alabama's strategies to improve the productivity and competitiveness of the industrial sector by increasing energy efficiency in processes and facilities. The curriculum provides the student with a well-balanced content of management skills along with technical exposure to cutting edge energy efficiency and application of advanced on-site energy production and storage.

### INDUSTRIAL ENERGY SPECIALIST Associate of Applied Science Advanced Manufacturing

**Program Code: AAS.ADMA.INEP CIP CODE: 15.0613**

#### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Math .....	3
SPH 106	Fundamentals of Oral Communication OR.....	3
SPH 107	Fundamentals of Public Speaking .....	3
	Humanities Elective .....	3
	Social Science Elective .....	3
	Natural Science or Math Elective .....	3
CIS 146	Microcomputer Computer Applications .....	3

#### APPLIED TECHNOLOGY CORE COURSE REQUIREMENTS:

ADM 101	Precision Measurement .....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems .....	3
ADM 106	Quality Control Concepts .....	3
ADM 107	CAD Concepts .....	3
ADM 111	Manufacturing Safety Practices .....	3

#### MAJOR COURSE REQUIREMENTS:

ADM 270	Business & Financial Management .....	3
ADM 271	Project Management .....	3
ADM 272	Professional Development & Business Communications .....	3
ADM 273	Data Collection, Analysis, & Reporting .....	3
ADM 274	Energy Management .....	3
ADM 275	Energy Production Efficiency .....	3
ADM 277	Industrial Energy Sources & Sustainability .....	3
ADM 281	Power Load Balancing & Adv. Manufacturing Processes .....	3
PCT 115	Instrumentation I .....	3
PCT 215	Instrumentation II .....	3
	Electives.....	3

(Choose from ADM 280 Internship or PCT 240 Process Troubleshooting)

**TOTAL CREDITS .....73**

### INDUSTRIAL ENERGY SPECIALIST ENERGY BUSINESS Short Term Certificate

**This certificate program is not eligible for Title IV funding (Pell Grant, SEOG, and Direct Student Loans)**

**Program Code: STC. ADMX.IEEB CIP Code: 15.0613**

ADM 270	Business & Financial Management .....	3
ADM 271	Project Management .....	3
ADM 272	Professional Development & Business Communications .....	3
ADM 273	Data Collection, Analysis, & Reporting .....	3
ADM 281	Power Load Balancing & Adv. Manufacturing Processes .....	3

**TOTAL CREDITS ..... 15**

### INDUSTRIAL ENERGY SPECIALIST ENERGY RESOURCE MANAGEMENT Short Term Certificate

**This certificate program is not eligible for Title IV funding (Pell Grant, SEOG, and Direct Student Loans)**

**Program Code: STC. ADMX.IEER CIP Code: 15.0613**

ADM 273	Data Collection, Analysis & Reporting .....	3
ADM 274	Energy Management .....	3
ADM 278	Industrial Quality .....	3
ADM 279	Industrial Water Usage & Disposal .....	3
ADM 280	Industrial Energy Internship .....	3

**TOTAL CREDITS .....15**

### INDUSTRIAL ENERGY SPECIALIST ENERGY MANAGEMENT SPECIALIST Short Term Certificate

**This certificate program is not eligible for Title IV funding (Pell Grant, SEOG, and Direct Student Loans)**

**Program Code: STC. ADMX.IEEM CIP Code: 15.0613**

ADM 271	Project Management .....	3
ADM 274	Energy Management .....	3
ADM 276	DG & Storage .....	3
ADM 278	Industrial Quality .....	3
ADM 279	Industrial Water Usage & Disposal .....	3

**TOTAL CREDITS .....15**

### INDUSTRIAL MAINTENANCE

The Associate of Applied Science Degree in Advanced Manufacturing with a concentration in Industrial Maintenance/Mechanical will prepare graduates for employment as an entry level multi-craft technician in areas such as Mechanical, Electrical, HVAC and instrumentation.

**INDUSTRIAL MAINTENANCE/MECHANICAL**  
**Associate of Applied Science Degree**  
**Advanced Manufacturing**

**Program Code: AAS.ADMA.INMA**

**CIP CODE: 15.0613**

The Associates of Applied Science Degree in Advanced Manufacturing with a concentration in Industrial Maintenance/Mechanical will prepare graduates for employment as entry level industrial mechanics and millwrights. Concepts covered in this program include pumps, motors, motor controls, mechanical drives, preventive/predictive maintenance concepts, hydraulics, pneumatics, prints and mechanical drawings, and related safety.

**GENERAL EDUCATION CORE REQUIREMENTS:**

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective .....		3
Social Science Elective .....		3
Natural Science or Math Elective .....		3
CIS 146	Microcomputer Applications .....	3

**ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:**

ADM 101	Precision Measurement .....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems .....	3
ADM 106	Quality Control Concepts .....	3
ADM 107	CAD Concepts .....	3
ADM 111	Manufacturing Safety Practices .....	3

**BASIC ELECTRICITY COURSE REQUIREMENTS**

ELT 108	DC Fundamentals .....	3
ELT 109	AC Fundamentals .....	3
ELT 110	Wiring Methods .....	3
ELT 117	AC/DC Machines .....	3

**ELECTRO/MECHANICAL COURSE REQUIREMENTS**

INT 117	Principles of Industrial Mechanics .....	3
INT 127	Principles of Pumps & Piping .....	3
ARS 151	Welding Principles, Theory and Symbols .....	3
MTT 147	Introduction to Machine Shop 1 .....	3
MTT 148	Introduction to Machine Shop Lab 1 .....	3
MTT 149	Introduction to Machine Shop II .....	3

**TOTAL.....70**

**INDUSTRIAL MAINTENANCE/ELECTRICAL**  
**Associate of Applied Science Degree**  
**Advanced Manufacturing**

The Associates of Applied Science Degree in Advance Manufacturing with a concentration in Industrial Maintenance/Electrical will prepare graduates for employment as entry level industrial electricians. Concepts covered

in the concentration include basic electrical concepts, motor controls, programmable logic controllers and basic instrumentation principles.

**Program Code: AAS.ADMA.IMTE**

**CIP CODE: 15.0613**

**GENERAL EDUCATION CORE REQUIREMENTS:**

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communications OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective .....		3
Social Science Elective .....		3
Natural Science or Math Elective .....		3
CIS 146	Microcomputer Applications .....	3

**ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:**

ADM 101	Precision Measurement .....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems .....	3
ADM 106	Quality Control Concepts .....	3
ADM 107	CAD Concepts .....	3
ADM 111	Manufacturing Safety Practices .....	3

**BASIC ELECTRICITY COURSE REQUIREMENTS:**

ELT 108	DC Fundamentals .....	3
ELT 109	AC Fundamentals .....	3
ELT 110	Wiring Methods .....	3
ELT 117	AC/DC Machines .....	3

**ELECTRO/ELECTRONIC COURSE REQUIREMENTS:**

ELT 118	Commercial/Industrial Wiring .....	3
ELT 209	Motor Controls I .....	3
ELT 212	Motor Controls II .....	3
ELT 231	Introduction to Programmable Controllers .....	3
ELT 232	Advanced Programmable Controllers .....	3
ILT 163	Digital Fundamentals .....	3

**TOTAL .....70**

**INDUSTRIAL MAINTENANCE/HVAC**  
**Associate of Applied Science Degree**  
**Advanced Manufacturing**

**Program Code: AAS.ADMA.IMTA**

**CIP CODE 15.0613**

The Associates of Applied Science Degree in Advanced Manufacturing with a concentration in Industrial Maintenance/HVAC will prepare graduates for employment as entry level HVAC technicians. Concepts covered in the concentration include fundamentals of electric and gas heating systems, refrigerant transition and recovery, commercial/industrial wiring, and NEC Codes.

**GENERAL EDUCATION CORE REQUIREMENTS:**

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3

MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communications OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective .....		3
Social Science Elective .....		3
Natural Science or Math Elective .....		3
CIS 146	Microcomputer Applications .....	3

**ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:**

ADM 101	Precision Measurement .....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems .....	3
ADM 106	Quality Control Concepts .....	3
ADM 107	CAD Concepts .....	3
ADM 111	Manufacturing Safety Practices .....	3

**BASIC ELECTRICITY COURSE REQUIREMENTS:**

ELT 108	DC Fundamentals .....	3
ELT 109	AC Fundamentals .....	3
ELT 110	Wiring Methods .....	3
ELT 117	AC/DC Machines .....	3

**HVAC COURSE REQUIREMENTS:**

ACR 113	Refrigeration Piping Practices .....	3
ACR 119	Fundamentals of Gas Heating Systems .....	3
ACR 120	Fundamentals of Electric Heating Systems .....	3
ACR 147	Refrigerant Transition & Recovery Theory .....	3
ACR 205	System Sizing & Air Distribution .....	3
ELT 118	Commercial/Industrial Wiring .....	3
ELT 241	National Electric Code .....	3

**TOTAL .....73**

**INDUSTRIAL MAINTENANCE/INSTRUMENTATION**

**Associate of Applied Science Degree  
Advanced Manufacturing**

**Program Code: AAS.ADMA.IMIN      CIP CODE: 15.0613**

The Associates of Applied Science Degree in Advanced Manufacturing with a concentration in Industrial Maintenance/Instrumentation will prepare graduates for employment as entry level instrumentation technicians. Concepts covered in the concentration include electronics for electricians, instrumentation circuits and systems, transducers, detectors, actuators, control devices, and fundamentals of pressure, force, weight, motion, liquid level, and fluid flow.

**GENERAL EDUCATION CORE REQUIREMENTS:**

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communications OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective .....		3
Social Science Elective .....		3
Natural Science or Math Elective .....		3
CIS 146	Microcomputer Applications .....	3

**ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:**

ADM 101	Precision Measurement .....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems .....	3
ADM 106	Quality Control Concepts .....	3
ADM 107	CAD Concepts .....	3
ADM 111	Manufacturing Safety Practices .....	3

**BASIC ELECTRICITY COURSE REQUIREMENTS:**

ELT 108	DC Fundamentals .....	3
ELT 109	AC Fundamentals .....	3
ELT 110	Wiring Methods .....	3
ELT 117	AC/DC Machines .....	3

**INSTRUMENTATION COURSE REQUIREMENTS:**

ILT 104	Industrial Instrumentation .....	3
ILT 114	Instrumentation Operation and Calibration .....	3
ELT 209	Motor Controls .....	1
ELT 212	Motor Controls II .....	1
ILT 214	Control and Troubleshooting, Flow, Level, Temperature, Pressure and Level Processes .....	3
ELT 231	Intro. To Programmable Controllers .....	3
ELT 232	Adv. Programmable Controllers .....	3

**TOTAL .....69**

**INDUSTRIAL MAINTENANCE/INSTRUMENTATION  
Short Term Certificate**

**This certificate program is not eligible for Title IV funding  
(Pell Grant, SEOG, and Direct Student Loans)**

**Program Code: STC.ADMX.IMIN      CIP Code: 15.0613**

ADM 111	Manufacturing Safety Practices .....	3
ELT 108	DC Fundamentals .....	3
ELT 109	AC Fundamentals .....	3
ILT 104	Industrial Instrumentation .....	3
ILT 114	Instrumentation Operation & Calibration .....	3
ILT 214	Control & Troubleshooting .....	3

**TOTAL CREDITS .....18**

**MACHINE TOOL TECHNOLOGY**

The Associate of Applied Science degree in Advanced Manufacturing with a concentration in Machine Tool Technology is a study of the process of using machine tools to manufacture useful products and parts. Students will acquire specialized knowledge and skills in many areas including mathematics, print reading, physics, measuring instruments, cutting tools, and machine tools. Graduates will have the ability to turn rough material into precision finished products and parts.

## PROGRAMS OF STUDY

### Associate of Applied Science Degree Advanced Manufacturing

**Program Code: AAS.ADMA.MTT**

**CIP CODE: 15.0613**

#### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective	.....	3
Social Science Elective	.....	3
Natural Science or MTH Elective	.....	3
CIS 146	Microcomputer Applications .....	3

#### ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:

ADM 101	Precision Measurement.....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems.....	3
ADM 106	Quality Control Concepts.....	3
ADM 107	CAD Concepts.....	3
ADM 111	Manufacturing Safety Practices .....	3

#### MACHINE TOOL CORE CLASSES

MTT 121	Print Reading .....	3
MTT 138	Milling Lab I.....	3
MTT 147	Introduction to Machine Shop I.....	3
MTT 148	Introduction to Machine Shop I Lab .....	3
MTT 149	Introduction to Machine Shop II.....	3
MTT 150	Introduction to Machine Shop II Lab .....	3

#### MACHINE TOOL ELECTIVES

(Choose 18 credit hours)

##### CNC Classes

MTT 140 & MTT 243	Basic CNC Turning I and Lab.....	6
MTT 141 & MTT 241	Basic CNC Milling I and Lab .....	6
MTT 212 & MTT 244	Adv. Computer Numerical Control Turning And Lab.....	6
MTT 213 & MTT 242	Adv. Computer Numerical Control Milling And Lab.....	6
MTT 219	Computer Numerical Control Graphics: Turning.....	3
MTT 220	Computer Numerical Control Graphics: Milling .....	3

##### Manual Classes

MTT 107	Machining Calculations.....	3
MTT 162 and MTT 163	Precision Grinding and Lab .....	6
MTT 281	Special Topics .....	3
MTT 282	Special Topics .....	3

**TOTAL.....76**

### MACHINE TOOL TECHNOLOGY Short Term Certificate

**This certificate program is not eligible for Title IV funding  
(Pell Grant, SEOG, and Direct Student Loans)**

**Program Coe: STC.ADMX.MTT**

**CIP Code: 15.0613**

ADM 111	Manufacturing Safety Practices .....	3
MTT 121	Basic Blueprint Reading for Machinist .....	3
MTT 138	Milling Lab I .....	3
MTT 147	Introduction to Machine Shop .....	3
MTT 148	Introduction to Machine Shop I Lab .....	3

**TOTAL CREDITS .....15**

### MACHINE TOOL TECHNOLOGY MANUAL MACHINING Short Term Certificate

**Program Code: STC.ADM.MTM**

**CIP CODE: 15.0613**

MTT 107	Machining Calculations I.....	3
MTT 121	Basic Blueprint Reading for Machinist.....	3
MTT 138	Milling I Lab.....	3
MTT 147	Introduction to Machine Shop I.....	3
MTT 148	Introduction to Machine Shop I Lab .....	3
MTT 149	Introduction to Machine Shop II.....	3
MTT 150	Introduction to Machine Shop II Lab .....	3
MTT 162	Precision Grinding .....	3
MTT 163	Precision Grinding Lab .....	3

**TOTAL.....27**

### MACHINE TOOL TECHNOLOGY ADVANCED CNC Short Term Certificate

**Students must see a MTT Instructor before starting this certificate**

**Program Code: STC.ADM.MTAC**

**CIP CODE: 15.0613**

MTT 212	Advanced Computer Numerical Control Turning.....	3
MTT 213	Advanced Computer Numerical Control Milling.....	3
MTT 219	Computer Numerical Control Graphics: Turning.....	3
MTT 220	Computer Numerical Control Graphics: Milling .....	3
MTT 242	CNC Milling Lab II.....	3
MTT 243	CNC Turning Lab .....	3
MTT 244	CNC Turning Lab II .....	3
MTT 281	Special Topics in Machine Tool Technology .....	3
MTT 282	Special Topics in Machine Tool Technology .....	3

**TOTAL.....27**

### MACHINE TOOL TECHNOLOGY Tool and Die Short Term Certificate

**This certificate program is not eligible for Title IV funding  
(Pell Grant, SEOG, and Direct Student Loans)**

**Program Code: STC.ADM.MTD**

**CIP CODE: 15.0613**

MTT 144	Electrical Discharge Machining .....	3
MTT 158	Die Fundamentals.....	3
MTT 159	Basic Formability .....	3
MTT 160	Die Construction and Tryout.....	3
MTT 161	Die Maintenance and Repair .....	3
MTT 162	Precision Grinding.....	3
MTT 163	Precision Grinding Lab .....	3
MTT 213	Advanced Numerical Control Milling .....	3
MTT 242	CNC Milling Lab.....	3
<b>TOTAL.....</b>		<b>27</b>

### PROCESS TECHNOLOGY

The Associate of Applied Science degree in Advanced Manufacturing with a concentration in Process Technology is designed for individuals seeking employment in the process industry as a process technician. The process industry plays a significant role in U. S. businesses and our economy, serving the pharmaceutical, food and beverage, textile, chemical and petroleum processing, power production, plastic, paint, cosmetic, and other sectors.

### PROCESS TECHNOLOGY Associate of Applied Science Degree Advanced Manufacturing

**Program Code: AAS.ADMA.PCT** **CIP CODE: 15.0613**

#### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective .....		3
Social Science Elective.....		3
Natural Science or MTH Elective .....		3
CIS 146	Microcomputer Applications .....	3

#### ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:

ADM 101	Precision Measurement.....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems.....	3
ADM 106	Quality Control Concepts.....	3
ADM 107	CAD Concepts.....	3
ADM 111	Manufacturing Safety Practices .....	3

#### PROCESS TECHNOLOGY COURSE REQUIREMENTS:

PCT 100	Fundamentals of Process Technology .....	3
PCT 105	Process Tech I - Equipment.....	4
PCT 115	Instrumentation I.....	3
PCT 215	Instrumentation II.....	4
PCT 220	Process Tech II – Systems .....	4
PCT 230	Process Tech III – Operations.....	4
PCT 240	Process Troubleshooting .....	4
Natural Science or Technical Elective .....		3

**TOTAL.....69**

### PROCESS TECHNOLOGY Short Term Certificate

**This certificate program is not eligible for Title IV funding  
(Pell Grant, SEOG, and Direct Student Loans)**

**Program Code: STC.ADMX.PCT**

**CIP Code: 15.0613**

ADM 106	Quality Control .....	3
ADM 111	Manufacturing Safety Practices .....	3
PCT 100	Fundamentals of Process Technology .....	3
PCT 105	Process Tech I – Equipment .....	3
PCT 115	Instrumentation I .....	3
PCT 220	Process Tech II – Systems .....	4

**TOTAL CREDITS .....19**

### RENEWABLE ENERGY

The Associate of Applied Science degree in Advanced Manufacturing with a concentration in Renewable Energy is designed to provide the student with knowledge and skills that prepare them for employment in a broad range of areas to include Facility Management; Solar Design and Installation; Residential Energy Management; and Sustainable Building and Construction. As part of the curriculum, the student has the opportunity to gain the following certifications: BPI; NABCEP; NCCER: EPA 608 and 609; OSHA 10; HERS; Alabama DET; IGSHPA, NATE and HVAC Excellence.

### RENEWABLE ENERGY Associate of Applied Science Degree Advanced Manufacturing

**Program Code: AAS.ADMA.REN**

**CIP CODE: 15.0613**

#### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar.....	1
ENG 101	English Composition .....	3
MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective .....		3
Social Science Elective.....		3
Natural Science or MTH Elective .....		3
CIS 146	Microcomputer Applications .....	3

#### ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:

ADM 101	Precision Measurement.....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems.....	3
ADM 106	Quality Control Concepts.....	3
ADM 107	CAD Concepts.....	3
ADM 111	Manufacturing Safety Practices .....	3

#### RENEWABLE ENERGY CORE COURSE REQUIREMENTS:

ELT 108	DC Electricity.....	3
ELT 109	AC Electricity .....	3
ACR 113	Refrigeration Piping Practices.....	3
ACR 187	Special Topics in ACR.....	5

## PROGRAMS OF STUDY

REN 105	Renewable Technology Awareness.....	1
REN 115	Photovoltaic Systems Principles & Design.....	3
REN 205	Solar Thermal Principles.....	3
REN 215	Photovoltaic Systems Install. & Serv. Procedures .....	3

### RENEWABLE ENERGY ELECTIVES: (Choose 6 credit hours)

ACR 119	Fundamentals of Gas Heating.....	3
ACR 120	Fundamentals of Electric Heating .....	3
ELT 110	Wiring Methods.....	3
ELT 117	AC/DC Machines.....	3

**TOTAL.....70**

### RENEWABLE ENERGY Short Term Certificate

**Program Code: STC.ADM.REN CIP CODE: 15.0613**

ELT 108	DC Electricity.....	3
ELT 109	AC Electricity.....	3
ACR 113	Refrigeration Piping Practices.....	3
ACR 187	Special Topics in ACR .....	5
REN 105	Renewable Technology Awareness.....	1
REN 115	Photovoltaic Systems Principles & Design.....	3
REN 205	Solar Thermal Principles.....	3
REN 215	Photovoltaic Systems Install. & Serv. Procedures .....	3

**TOTAL.....24**

### RENEWABLE ENERGY Short Term Certificate

**Program Code: STC.ADMX.REN CIP CODE: 15.0613**

ADM 111	Manufacturing Safety Practices .....	3
ELT 108	DC Fundamentals .....	3
ELT 109	AC Fundamentals .....	3
REN 105	Renewable Technology Awareness .....	1
REN 115	Photovoltaic Systems .....	3
REN 215	Photovoltaic Systems Installation .....	3

**TOTAL.....16**

## WELDING TECHNOLOGY

### WELDING TECHNOLOGY Associate of Applied Science Degree Advanced Manufacturing

The Associate of Applied Science Degree in Advanced Manufacturing with a concentration in Welding will prepare graduates for employment as an entry-level welder.

**Program Code: AAS.ADMA.WELD CIP CODE: 15.0613**

#### GENERAL EDUCATION CORE REQUIREMENTS:

ORI 110	Freshman Seminar.....	1
ENG 101	English Composition .....	3

MTH 103	Introduction to Technical Mathematics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
Humanities Elective .....		3
Social Science Elective.....		3
Natural Science or MTH Elective .....		3
CIS 146	Microcomputer Applications.....	3

#### ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS:

ADM 101	Precision Measurement.....	3
ADM 104	Introduction to Thermal/Electrical Principles .....	3
ADM 105	Fluid Systems.....	3
ADM 106	Quality Control Concepts.....	3
ADM 107	CAD Concepts.....	3
ADM 111	Manufacturing Safety Practices .....	3

#### WELDING CORE CLASSES:

WDT 109	SMAW Fillet/PAC/CAC.....	3
WDT 110	Industrial Blueprint Reading .....	3
WDT 119	Gas Metal Arc/Flux Cored Arc Welding.....	3
WDT 228	Gas Tungsten Arc Welding .....	3

#### WELDING ELECTIVES:

(Choose 21 credit hours)

WDT 108	SMAW Fillet/OFC.....	3
WDT 115	GTWA Carbon Pipe .....	3
WDT 120	Shield Metal.....	3
WDT 122	SMAW Fillet/OFC Lab .....	3
WDT 123	SMAW Fillet/PAC/CAC Lab .....	3
WDT 124	Gas Metal Arc/Flux Cored Arc Welding Lab .....	3
WDT 125	Shielding Metal ARC Welding Groove Lab .....	3
WDT 155	GTAW Carbon Pipe Lab .....	3
WDT 182	Special Topics .....	3
WDT 217	SMAW Carbon Pipe .....	3
WDT 257	SMAW Carbon Pipe Lab .....	3
WDT 268	Gas Tungsten Arc Lab .....	3

**TOTAL.....73**

### Welding Technology Short Term Certificate

**This certificate program is not eligible for Title IV funding  
(Pell Grant, SEOG, and Direct Student Loans)**

**Program Code: STC.ADMX.WDT CIP Code: 15.0613**

ADM 111	Manufacturing Safety Practices .....	3
WDT 108	SMAW/Fillet Theory .....	3
WDT 110	Blueprint Reading .....	3
WDT 122	SMAW/Fillet Lab .....	3
WDT 119	GMAW/Flux Theory .....	3
WDT 124	GMAW/Flux Lab .....	3

**TOTAL CREDITS .....18**

### BASIC MANUFACTURING & FABRICATION WELDING Short Term Certificate

**Program Code: STC.ADM.WELD**

**CIP CODE: 15.0613**

WDT 108	SMAW Fillet/OFC .....	3
WDT 109	SMAW Fillet/PAC/CAC .....	3
WDT 110	Industrial Blueprint Reading .....	3
WDT 119	Gas Metal Arc/Flux Cored Arc Welding .....	3
WDT 122	SMAW Fillet/OFC Lab .....	3
WDT 123	SMAW Fillet/PAC/CAC Lab .....	3
WDT 124	Gas Metal Arc/Flux Cored Arc Welding Lab .....	3
WDT 228	Gas Tungsten Arc Welding .....	3

**TOTAL.....24**

**PIPE WELDING**  
**Short Term Certificate**

This program is subject to the Credit to Clock Hour conversion as defined by Title IV and may not be fully funded with Title IV funds (Pell Grant, SEOG and Direct Student Loans).

Students must see the Welding Instructor before starting this certificate. Prior welding experience or classes are required before starting certificate courses.

**Program Code: STC.ADM.PIPE**

**CIP CODE: 15.0613**

WDT 115	GTAW Carbon Pipe .....	3
WDT 120	Shielded Metal ARC Welding Groove Theory .....	3
WDT 125	Shielded Metal ARC Welding Groove Lab .....	3
WDT 155	GTAW Carbon Pipe Lab .....	3
WDT 217	SMAW Carbon Pipe .....	3
WDT 228	GTAW Fillet .....	3
WDT 257	SMAW Carbon Pipe Lab .....	3
WDT 268	GTAW Fillet Lab .....	3

**TOTAL.....24**

**END OF ADVANCED MANUFACTURING PROGRAM OPTIONS**

**BUSINESS ADMINISTRATION**

**With concentrations in Business Administration, Accounting Technology, Entrepreneurship and Paralegal.**

This program is designed primarily for students who plan to seek employment in a business-related field. This program is also appropriate for students who are employed and wish to upgrade their business skills and knowledge. Although these programs are not designed to transfer, many of the courses are transferable to senior institutions.

**BUSINESS ADMINISTRATION**  
**Associate of Applied Science Degree**

**Program Code: AAS.BSAD**

**CIP Code: 52.0201**

**GENERAL EDUCATION CORE REQUIREMENTS:**

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition I .....	3
ENG 102	English Composition II .....	3
MTH 112	Precalculus Algebra or higher .....	3
ECO 231	Principles of Macroeconomics .....	3

SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
CIS 146	Microcomputer Applications .....	3
	Humanities/Fine Arts Elective .....	3

**Total.....22**

**MAJOR COURSE REQUIREMENTS**

BUS 215	Business Communications .....	3
BUS 241	Principles of Accounting I .....	3
BUS 242	Principles of Accounting II .....	3
BUS 247	Financial Markets and Institutions .....	3
BUS 263	The Legal and Social Environment of Business .....	3
BUS 271	Business Statistics I .....	3
BUS 272	Business Statistics II .....	3
BUS 275	Principles of Management .....	3
ECO 232	Principles of Microeconomics .....	3
BUS	Business Electives (Choose from BUS 242, 246, 248, or 253) .....	3
BUS 276	Human Resource Management .....	3
or CIS 197E	Microsoft Excel Expert .....	
BUS 285	Principles of Marketing .....	3
BUS 289	Business Strategy Capstone .....	3

**Total.....39**

**TOTAL CREDITS.....61**

**BUSINESS**  
**Short Term Certificate**

**This certificate is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loans)**

**Program Code: STC.BSAD.BUSI**

**CIP Code: 52.0201**

**This certificate program is designed to give individuals essential skills to analyze and resolve many of the day-to-day challenges commonly encountered in small businesses.**

BUS 241	Principles of Accounting I .....	3
BUS 242	Principles of Accounting II .....	3
BUS 271	Business Statistics OR	
BUS 263	Legal and Social Environment of Business .....	3
ECO 231	Principles of Macroeconomics .....	3
ECO 232	Principles of Microeconomics .....	3

**Total.....15**

**TAX PROFESSIONAL**  
**Short Term Certificate**

**Program Code: STC.BSAD.BTAX**

**CIP Code: 52.0201**

**This certificate is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loans)**

**This certificate program is designed to prepare students for employment in the field of tax preparation, or for those who are already employed in the field but would like to acquire additional coursework.**

## **PROGRAMS OF STUDY**

ACT 254	Business Income Tax .....	3
BUS 241	Principles of Accounting I .....	3
BUS 242	Principles of Accounting II .....	3
BUS 246	Accounting on the Microcomputer .....	3
BUS 253	Individual Income Tax .....	3
CIS 146	Microcomputer Applications .....	3
CIS 197E	Microsoft Excel Expert .....	3

**Total .....**21

### **ACCOUNTING TECHNOLOGY** **Associate of Applied Science Degree**

**Program Code: AAS.BSAD.BACT**

**CIP Code: 52.0201**

#### **GENERAL EDUCATION CORE REQUIREMENTS:**

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition I .....	3
ENG 102	English Composition II .....	3
MTH 112	or higher .....	3
ECO 231	Principles of Macroeconomics .....	3
CIS 146	Microcomputer Applications .....	3
Humanities/Fine Arts Elective	.....	3

**Total .....**19

#### **MAJOR COURSE REQUIREMENTS:**

ACT 249	Payroll Accounting .....	3
ACT 254	Business Income Tax .....	3
BUS 215	Business Communications .....	3
BUS 241	Principles of Accounting I .....	3
BUS 242	Principles of Accounting II .....	3
BUS 247	Financial Markets and Institutions .....	3
BUS 263	Legal and Social Environment of Business .....	3
BUS 271	Business Statistics I .....	3
BUS 272	Business Statistics II .....	3
BUS 246	Accounting on the Microcomputer .....	3
BUS 248	Managerial Accounting .....	3
BUS 253	Individual Income Tax .....	3
CIS 197E	Microsoft Excel Expert .....	3
ECO 232	Principles of Microeconomics .....	3

**Total .....**42

**TOTAL CREDITS .....**61

### **ACCOUNTING ESSENTIALS** **Short Term Certificate**

**Program Code: STC.BSAD.BACT**

**CIP Code: 52.0201**

**This certificate program is designed to prepare students for employment in the following related fields: Payroll, Accounts Receivable and Payable, Bookkeeping, and Tax Preparation.**

ACT 249	Payroll Accounting .....	3
ACT 254	Business Income Tax .....	3
BUS 241	Principles of Accounting I .....	3
BUS 242	Principles of Accounting II .....	3
BUS 246	Accounting on the Microcomputer .....	3

BUS 248	Managerial Accounting .....	3
BUS 253	Individual Income Tax .....	3
CIS 146	Microcomputer Applications .....	3
CIS 197E	Microsoft Excel Expert .....	3

**Total .....**27

### **ENTREPRENEURSHIP** **Short Term Certificate**

**This certificate is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loans)**

**Program Code: STC.ENTRE**

**CIP Code: 52.0201**

**This certificate program is designed to give individuals essential skills for developing and operating a small business.**

ORI 110	Freshman Seminar .....	1
BUS 241	Principles of Accounting I .....	3
BUS 247	Financial Markets and Institutions .....	3
BUS 263	Legal and Social Environment of Business .....	3
BUS 275	Principles of Management .....	3
BUS 276	Human Resources Management .....	3
BUS 285	Principles of Marketing .....	3

**TOTAL CREDITS .....**19

### **PARALEGAL** **Associate of Applied Science Degree**

**Program Code: AAS.BSAD.PRL**

**CIP Code: 52.0201**

#### **GENERAL EDUCATION CORE REQUIREMENTS**

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition I .....	3
ENG 102	English Composition II .....	3
Mathematics Elective (choose from MTH 116*, MTH 110, 112, 113 or 120)	.....	3-4
ECO 231	Principles of Macroeconomics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
CIS 146	Microcomputer Applications .....	3
Humanities/Fine Arts Elective	.....	3

**Total .....**22-23

#### **MAJOR COURSE REQUIREMENTS**

BUS 215	Business Communications .....	3
BUS 241	Principles of Accounting I .....	3
BUS 263	Legal and Social Environment of Business .....	3
BUS 275	Principles of Management .....	3
CIS Elective.....	.....	3
(Choose from CIS 147, CIS 197E or CIS 197W)		
PRL 101	Introduction to Paralegal Studies .....	3
PRL 102	Basic Legal Research & Writing .....	3
PRL 160	Criminal Law and Procedure .....	3
PRL 210	Real Property Law .....	3
PRL 230	Domestic Law .....	3

PRL 240	Wills, Trusts & Estates.....	3
PRL 262	Civil Law & Procedure.....	3
PRL Electives	(Choose from PRL 150, 192, 193, 250, 282 or 291).....	6

**\*PRL 101 and PRL 102 must be completed with a grade of "C" or higher prior to enrollment in any other PRL courses. PRL 101 and PRL 102 may be taken together in the same semester. Although not required, it is encouraged to take PRL 101 and PRL 102 together.**

**\*\*ENG 101 must be completed with a grade of "C" or higher prior to enrollment in PRL 102.**

**\*\*Enrollment in PRL 291 is subject to Program Director approval. Previous completion of PRL 262 with a grade of "C" or higher is required. Completion of at least 12 previous hours in PRL courses is recommended.**

**\* MTH 116 does not transfer per STARS Agreement**

<b>Total .....</b>	<b>42</b>
<b>TOTAL CREDITS .....</b>	<b>64-65</b>

## CHILD DEVELOPMENT

This program is designed primarily for students who plan to seek employment in preschool or school age programs. All students are required to complete the General Education Core Requirements and the Child Development Common Core courses.

### CHILD DEVELOPMENT Associate of Applied Science Degree

**Program Code: AAS.CDVA** **CIP Code: 19.0708**

#### GENERAL EDUCATION CORE REQUIREMENTS

ORI 110	Freshman Seminar.....	1
ENG 101	English Composition I .....	3
ENG 102	English Composition II .....	3
Fine Arts Elective	(Choose from ART 100, ART 203, ART 204, MUS 101, THR 120) .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
MTH 116	Mathematical Applications OR	
MTH 112	Pre-calculus Algebra .....	3
BIO 103	Principles of Biology I.....	4
CIS 146	Microcomputer Applications .....	3
History Elective	.....	3
PSY 200	General Psychology.....	3

**Total General Credit Hours.....29**

#### MAJOR COURSE REQUIREMENTS

CHD 202	Children's Creative Experiences .....	3
CHD 203	Children's Literature and Language Development.....	3
CHD 204	Methods and Materials for Teaching Children .....	3
CHD 205	Program Planning for Educating Young Children.....	3
CHD 206	Children's Health and Safety .....	3
CHD 209	Infant and Toddler Education Programs .....	3

## PROGRAMS OF STUDY

CHD 210	Educating Children with Exceptional Needs .....	3
CHD 215	Supervised Practical Experiences in Child Development .....	3
PSY 211	Child Growth and Development Principles.....	3
Child Development Electives	.....	6
Choose two (2) of the following:		
CHD 100	Introduction of Early Care and Education of Children.....	3
CHD 214	Families and Communities in Early Childcare and Education Programs .....	3
CHD 220	Parenting Skills .....	3
General Electives	.....	6

**Total Credit Hours .....39**

**TOTAL CREDITS .....68**

Students also have the option of completing the following specialty course requirements for additional professional training.

#### Administration

CHD 208	Administration of Child Development Programs.....	3
BUS 263	The Legal and Social Environment of Business.....	3
BUS 275	Principles of Management .....	3
BUS 279	Small Business Management .....	3

**Total Administration Credit Hours .....12**

### CHILD DEVELOPMENT Short Term Certificate

**Program Code: STC.CDV**

**CIP Code: 19.0708**

This program is designed to enrich the child care student/worker and serve as an intermediate step for those individuals continuing their work toward an associate degree in Child Development.

#### GENERAL EDUCATION CORE REQUIREMENTS

ORI 110	Freshman Seminar.....	1
*COM 100	Introductory Technical English OR	
ENG 101	English Composition I .....	3
MTH 116	Mathematical Applications OR	
MTH 112	Pre-calculus Algebra .....	3
CIS 146	Microcomputer Applications .....	3

#### MAJOR COURSE REQUIREMENTS

PSY 211	Child Growth and Development Principles.....	3
CHD 202	Children's Creative Experiences .....	3
CHD 204	Methods and Materials for Teaching Children.....	3
CHD 205	Program Planning for Educating Young Children.....	3
CHD 210	Educating Children with Exceptional Needs .....	3

**Total Credits .....25**

**\*Students who may want to pursue the Child Development Associate of Applied Science degree should take ENG 101.**

## COMPUTER GRAPHICS

## PROGRAMS OF STUDY

### With concentrations in Graphic Design, Electronic Imaging, and Graphic Animation

This program is for those interested in refining artistic talents and in preparing a professional quality portfolio in order to strengthen employment possibilities. Courses in graphic design, advertising, computer graphics, technical illustration, multi-media design and production, and animation are emphasized under various concentrations within this program. Some courses are offered only once a year in the day program at the Decatur campus. Students should plan schedules with the advice of the Art faculty.

A formal review of a professional quality portfolio of the student's work is required upon completion of the program of study.

### COMPUTER GRAPHICS Graphic Design Associate of Applied Science Degree

Program Code: AAS.CGFX.GFXD CIP Code: 50.0401

#### Year I (Fall)

ART 113	Drawing I .....	3
ART 121	Two Dimensional Composition I .....	3
ART 221	Computer Graphics I .....	3
VCM 180	Introduction to Graphic Design .....	3
ORI 110	Freshman Seminar .....	1
	Social Science Elective .....	3

**Total .....16**

#### Year I (Spring)

ART 127	Three-Dimensional Composition .....	3
ART 204	Art History II .....	3
VCM 150	Typography .....	3
VCM 232	Advanced Computer Graphics .....	3
ENG 101	Composition I .....	3

**Total .....15**

#### Year II (Fall)

VCM 145	Introduction to Digital Photography .....	3
VCM 250	Introduction to Technical Illustration .....	3
ART 253	Graphic Design I .....	3
ENG 102	Composition II .....	3
	Natural Science Elective .....	4

**Total .....16**

#### Year II (Spring)

VCM 251	Technical Illustration .....	3
ART 254	Graphic Design II .....	3
	Graphic Design Electives .....	6
	(Choose 2 from CAT 283, ART 114, or VCM 282)	
ART 299	Portfolio .....	1
	MTH 100 or Higher .....	3

**Total .....16**

**TOTAL CREDITS .....63**

### COMPUTER GRAPHICS Electronic Imaging Associate of Applied Science Degree

Program Code: AAS.CGFX.GFXI

CIP Code: 50.0401

#### Year I (Fall)

ORI 110	Freshman Seminar .....	1
ART 113	Drawing I .....	3
ART 121	Two Dimensional Composition I .....	3
ART 221	Computer Graphics I .....	3
VCM 180	Introduction to Graphic Design .....	3
	Social Science Elective .....	3

**Total .....16**

#### Year I (Spring)

VCM 232	Advanced Computer Graphics .....	3
VCM 281	Digital Design OR .....	3
	CIS 208 Web Authoring Software .....	
ART 127	Three-Dimensional Composition .....	3
ART 204	Art History II .....	3
ENG 101	Composition I .....	3
	MTH 100 or Higher .....	3

**Total .....18**

#### Year II (Fall)

VCM 250	Introduction to Technical Illustration .....	3
VCM 145	Introduction to Digital Photography .....	3
VCM 285	Multimedia Production .....	3
ART 253	Graphic Design I .....	3
ENG 102	Composition II .....	3

**Total .....15**

#### Year II (Spring)

VCM 286	Advanced Multimedia Production .....	3
VCM 282	Advanced Digital Design .....	3
	Graphic Design Electives .....	6
	(Choose 2 from VCM 251, ART 254 or CAT 283)	
ART 299	Portfolio .....	1
	Natural Science Elective .....	4

**Total .....17**

**TOTAL CREDITS .....66**

### COMPUTER GRAPHICS Graphic Animation Associate of Applied Science Degree

Program Code: AAS.CGFX.GFXA

CIP Code: 50.0401

#### Year I (Fall)

ART 113	Drawing I .....	3
ART 121	Two Dimensional Composition I .....	3
ART 221	Computer Graphics I .....	3
VCM 180	Introduction to Graphic Design .....	3

ORI 110	Freshman Seminar .....	1
	Social Science Elective .....	3
<b>Total</b> .....		<b>16</b>

**Year I (Spring)**

CAT 283	3D (Graphics and Animation) .....	3
VCM 232	Advanced Computer Graphics .....	3
VCM 281	Digital Design OR .....	3
CIS 208	Web Authoring Software .....	
ART 204	Art History II .....	3
ENG 101	Composition I .....	3

**Total** ..... **15**

**Year II (Fall)**

VCM 145	Introduction to Digital Photography .....	3
VCM 250	Introduction to Technical Illustration .....	3
VCM 285	Multimedia Production .....	3
ART 283	Graphic Animation I .....	3
ENG 102	Composition II .....	3
	Natural Science Elective .....	4

**Total** ..... **19**

**Year II (Spring)**

VCM 282	Advanced Digital Design .....	3
VCM 286	Advanced Multimedia Production .....	3
ART 284	Graphic Animation II .....	3
	Animation Electives .....	6
	Choose 2 from VCM 251, ART 253 or ART 254 .....	
MTH 100 or Higher	.....	3
ART 299	Portfolio .....	1

**Total** ..... **19**

**TOTAL CREDITS** ..... **69**

## COMPUTER INFORMATION SYSTEMS

The CIS department offers concentrations in Information Assurance/Cyber Defense, Networking Technology, Office Management, and Programming, and short certificates in C++ Programming, Cisco Preparation, Computer Technician Preparation, E-Commerce, Information Assurance & Cybersecurity, Java Programming, Server Administration, Software Applications, and Web Development.

This program is designed for students seeking employment in the field of Computer Information Systems with a technical concentration. The program is not designed for transfer, although many of the courses are transferable to some senior institutions. Please note that some required courses may not be offered every semester. Due to limited course offerings, degree seeking students may find it necessary to extend completion timelines, and attend both day and evening classes and attend classes on both campuses or online.

## COMPUTER INFORMATION SYSTEMS

### Information Assurance/Cyber Defense Associate of Applied Science Degree

**Program Code: AAS.CIS.IACD**

**CIP Code: 11.0101**

#### GENERAL EDUCATION CORE REQUIREMENTS

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition I .....	3
BUS 215	Business Communications .....	3
MTH 110 or higher (excluding MTH 116)	.....	3
ECO 231	Principles of Macroeconomics .....	3
SPH 106	Fundamentals of Oral Communication OR .....	
SPH 107	Fundamentals of Public Speaking .....	3
CIS 146	Microcomputer Applications .....	3
	Humanities/Fine Arts Elective .....	3

**Total** ..... **22**

#### MAJOR COURSE REQUIREMENTS

CIS 201	Intro to Computer Programming Concepts .....	3
CIS 211	Principles of Information Assurance .....	3
CIS 214	Security Analysis (PEN testing) .....	3
CIS 245	Cyber Defense .....	3
CIS 246	Ethical Hacking .....	3
CIS 255	Java Programming .....	3
CIS 263	Computer Maintenance .....	3
CIS 270	Cisco CCNA I .....	3
CIS 271	Cisco CCNA II .....	3
CIS 276	Server Administration .....	3
CIS 280	Network Security .....	3
CIS 282	Computer Forensics .....	3
CIS Electives	.....	6
	(Choose two from CIS 171 or other 200 level CIS Courses)	

**Total** ..... **42**

**TOTAL CREDITS** ..... **64**

## COMPUTER INFORMATION SYSTEMS

### Office Management Associate of Applied Science Degree

**Program Code: AAS.CIS.OFTC**

**CIP Code: 11.0101**

#### GENERAL EDUCATION CORE REQUIREMENTS

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition I .....	3
BUS 215	Business Communications .....	3
MTH 110 or higher (excluding MTH 116)	.....	3
ECO 231	Principles of Macroeconomics .....	3
SPH 106	Fundamentals of Oral Communication OR .....	
SPH 107	Fundamentals of Public Speaking .....	3
CIS 146	Microcomputer Applications .....	3
	Humanities/Fine Arts Elective .....	3

**Total** ..... **22**

#### MAJOR COURSE REQUIREMENTS

## **PROGRAMS OF STUDY**

BUS 241	Principles of Accounting I .....	3
BUS 246	Accounting on the Micro .....	3
BUS 275	Principles of Management .....	3
CIS 147	Advanced Micro Applications .....	3
CIS 197E	Microsoft Excel Expert .....	3
CIS 197W	Microsoft Word Expert .....	3
CIS 208	Web Authoring Software .....	3
CIS 233	Trends in Office Technology .....	3
OAD 103	Intermediate Keyboarding .....	3
OAD 217	Office Management .....	3
Electives .....		12
Choose from: ACT 249, ACT 254, BUS 247, BUS 248, BUS 253, BUS 263, BUS 276, CIS 151, CIS 207, CIS 222, or CIS 250		

**Total .....42**

### **Suggested Elective Paths**

E-Commerce	Choose CIS 151, CIS 207, CIS 222 & CIS 250
Accounting	Choose ACT 249, ACT 254, BUS 248 & BUS 253
Management	Choose BUS 247, BUS 248, BUS 263 & BUS 276

**TOTAL CREDITS .....64**

## **COMPUTER INFORMATION SYSTEMS Programming Associate of Applied Science Degree**

**Program Code: AAS.CIS.PROG      CIP Code: 11.0101**

### **GENERAL EDUCATION CORE REQUIREMENTS**

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition I .....	3
BUS 215	Business Communications .....	3
MTH 110 or higher (excluding MTH 116) .....		3
ECO 231	Principles of Macroeconomics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
CIS 146	Microcomputer Applications .....	3
Humanities/Fine Arts Elective .....		3

**Total .....22**

### **MAJOR COURSE REQUIREMENTS**

CIS155	Intro to Mobile App Development .....	3
CIS 201	Intro to Computer Programming Concepts .....	3
CIS 207	Introduction to Web Development .....	3
CIS 209	Advanced Web Development .....	3
CIS 222	Database Management Systems .....	3
CIS 251	C++ Programming .....	3
CIS 252	Advanced C++ Programming .....	3
CIS 255	Java Programming .....	3
CIS 256	Advanced Java Programming .....	3
CIS 263	Computer Maintenance .....	3
CIS 270	Cisco CCNA I .....	3
CIS 296	Special Topics .....	3
CIS Electives .....		6
(Choose two from CIS 171 or 200 level CIS Courses)		

**Total .....42**

**TOTAL CREDITS .....64**

## **COMPUTER INFORMATION SYSTEMS Networking Technology Associate of Applied Science Degree**

**Program Code: AAS.CIS.NTWK      CIP Code: 11.0101**

### **GENERAL EDUCATION CORE REQUIREMENTS**

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition I .....	3
BUS 215	Business Communications .....	3
MTH 110 or higher (excluding MTH 116) .....		3
ECO 231	Principles of Macroeconomics .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
CIS 146	Microcomputer Applications .....	3
Humanities/Fine Arts Elective .....		3

**Total .....22**

### **MAJOR COURSE REQUIREMENTS**

CIS 171	Linux I .....	3
CIS 201	Intro to Computer Programming Concepts .....	3
CIS 255	Java Programming .....	3
CIS 263	Computer Maintenance .....	3
CIS 267	Enterprise Virtualization .....	3
CIS 270	Cisco CCNA I .....	3
CIS 271	Cisco CCNA II .....	3
CIS 272	Cisco CCNA III .....	3
CIS 273	Cisco CCNA IV .....	3
CIS 276	Server Administration .....	3
CIS 277	Network Services Administration .....	3
CIS 280	Network Security .....	3
CIS Electives .....		6
(Choose two 200 level CIS Courses)		

**Total .....42**

**TOTAL CREDITS .....64**

## **COMPUTER INFORMATION SYSTEMS C++ Programming Short Term Certificate**

**This certificate is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loans)**

**Program Code: STC.CIS.CPP      CIP Code: 11.0101**

CIS 201	Intro. to Computer Programming Concepts .....	3
CIS 251	C++ Programming .....	3
CIS 252	Advanced C++ Programming .....	3

**TOTAL CREDITS ..... 9**

## **COMPUTER INFORMATION SYSTEMS**

### Java Programming Short Term Certificate

This certificate is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loans)

**Program Code: STC.CIS.JAVA CIP Code: 11.0101**

CIS 201	Intro. to Computer Programming Concepts .....	3
CIS 255	Java Programming .....	3
CIS 256	Advanced Java Programming.....	3
<b>TOTAL CREDITS .....</b>		<b>9</b>

### COMPUTER INFORMATION SYSTEMS Server Administration Short Term Certificate

This certificate is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loans)

**Program Code: AAS.CIS.SADM CIP Code: 11.0101**

CIS 171	Linux.....	3
CIS 263	Computer Maintenance .....	3
CIS 267	Enterprise Virtualization .....	3
CIS 270	Cisco CCNA I .....	3
CIS 276	Server Administration.....	3
CIS 277	Network Services Administration.....	3
CIS 280	Network Security .....	3
<b>Total .....</b>		<b>21</b>

### COMPUTER INFORMATION SYSTEMS Cisco Preparation Short Term Certificate

This certificate is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loans)

**Program Code: STC.CIS.CSTC CIP Code: 11.0101**

This certificate option provides courses preparing students for the CCNA (Cisco Certified Network Associate) exam series. CCNA certification is one of the most prestigious and in-demand IT certifications in the nation and is widely respected by network professionals. Completion of this certificate indicates a foundation in and apprentice knowledge of Cisco networking.

CIS 270	Cisco CCNA I .....	3
CIS 271	Cisco CCNA II .....	3
CIS 272	Cisco CCNA III .....	3
CIS 273	Cisco CCNA IV .....	3
CIS Elective (Choose from CIS 267, 280, 283) .....		3
<b>TOTAL CREDITS .....</b>		<b>15</b>

### COMPUTER INFORMATION SYSTEMS Computer Technician Preparation Short Term Certificate

This certificate is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loans)

**Program Code: STC.CIS.COMT CIP Code: 11.0101**

This certificate is preparation for the A+ Certification Exam.

CIS 171	Linux I.....	3
CIS 263	Computer Maintenance .....	3
CIS 270	Cisco CCNA I .....	3
<b>TOTAL CREDITS .....</b>		<b>9</b>

### COMPUTER INFORMATION SYSTEMS Software Applications Short Term Certificate

This certificate program is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loan)

**Program Code: STC.CIS.SFTW CIP Code: 11.0101**

The Software Applications Certificate is designed for students seeking instruction in various types of Microsoft software in preparation for the Microsoft Office Specialist exams. Instruction is designed for those seeking to be more employable in the job market or to enhance current computer skills. While the certificate focuses on Microsoft Office Specialist (MOS) objectives, vendor-sponsored testing is not a requirement for certificate completion. Certification credit will be considered on a case-by-case basis by the Dean of the Business/CIS Division.

CIS 146	Microcomputer Applications .....	3
CIS 147	Advanced Microcomputer Applications.....	3
CIS 197E	Microsoft Excel Expert.....	3
CIS 197W	Microsoft Word Expert .....	3
<b>TOTAL CREDITS .....</b>		<b>12</b>

### COMPUTER INFORMATION SYSTEMS E-Commerce Short Term Certificate

This certificate program is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loan)

**Program Code: STC.CIS.CISA CIP Code: 11.0101**

The E-Commerce Certificate is for people interested in creating a website to set up their own business and become entrepreneurs. These skills are currently in great demand with business and industry. Certification credit will be considered on a case-by-case basis by the Dean of the Business/CIS Division.

CIS 151	Graphics for the World Wide Web .....	3
CIS 208	Web Authoring Software .....	3
CIS 250	E-Commerce .....	3
<b>TOTAL CREDITS .....</b>		<b>9</b>

### COMPUTER INFORMATION SYSTEMS Information Assurance & Cybersecurity Short Term Certificate

## PROGRAMS OF STUDY

**This certificate program is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loan)**

**Program Code: STC.CIS.INFA**

**CIP Code: 11.0101**

This certificate develops and validates skills in the areas of securing networks, combating cyber-terrorism, investigating computer attacks, and identifying computer vulnerabilities that could allow system penetration. Students will learn to identify and combat intrusion, identity theft, hacking, and denial of service attacks, as well as other emerging security concerns. Industry certifications credit will be handled on a case-by-case basis by the BUS/CIS Division Dean.

CIS 211	Principles of Information Assurance.....	3
CIS 214	Security Analysis (PEN Testing) .....	3
CIS 246	Ethical Hacking .....	3
CIS 282	Computer Forensics.....	3

**TOTAL CREDITS .....12**

### COMPUTER INFORMATION SYSTEMS Mobile App Development Short Term Certificate

**This certificate program is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loan)**

**Program Code: STC.CIS.MADV**

**CIP Code: 11.0101**

This Mobile App Development Certificate is designed for students seeking a foundation in the development of apps for mobile devices such as smartphones and tablets. Students learn to develop applications written in Java that run on the Android OS platform.

CIS 155	Intro to Mobile App Development.....	3
CIS 201	Intro to Computer Programming Concepts.....	3
CIS 219	Android App Development.....	3
CIS 255	Java Programming.....	3

**TOTAL CREDITS .....12**

### COMPUTER INFORMATION SYSTEMS Web Development Short Term Certificate

**This certificate program is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loan)**

**Program Code: STC.CIS.WEBD**

**CIP Code: 11.0101**

CIS 201	Intro to Computer Programming Concepts.....	3
CIS 207	Intro to Web Development .....	3
CIS 208	Web Authoring Software .....	3
CIS 209	Adv. Web Development.....	3

**TOTAL CREDITS .....12**

## DENTAL ASSISTING

Ms. Karen Chockley, Program Director

256-306-2812 ksp@calhoun.edu

Additional information and applications are available on the Dental Assisting program website under "Division of Health".

Dental assistants are valuable members of the dental health care team. Students in the DA program learn to perform a variety of patient care, laboratory, and office functions. DA responsibilities may include assisting the dentist during patient treatment, taking & developing X-rays, working in the dental laboratory, providing oral hygiene instruction, &/or performing office managerial duties. Dental assisting requires excellent communication abilities, proficiency in a wide array of technical skills, and personal flexibility.

The dental assisting program is committed to student success and strives to graduate knowledgeable, skilled, and comprehensively prepared entry level dental assistants for the provision of safe, effective, and compassionate care that meets the needs of employers and the general public.

The DA program offers students two educational options. **An Associate of Applied Science (AAS) Degree**, which can be achieved in 4 semesters, is awarded to those who complete the general education requirements and all dental assisting courses in the curriculum plan. A three-semester **Certificate** is also available. Graduates of both programs are eligible to apply to take the Certified Dental Assistant (CDA) exam from the Dental Assisting National Board.

DA classes are only offered during the day, Monday through Friday, on the Decatur campus. The coursework is progressive, requiring a grade of 75% or higher in each DA course and a "C" or higher in the required general education courses. Students participate in 24 weeks of part-time clinical practice experiences.

The program in dental assisting is accredited by the Commission on Dental Accreditation (CODA) which is a specialized accrediting body recognized by the United States Department of Education.

The Commission on Dental Accreditation will review complaints that relate to a program's compliance with the accreditation standards. The Commission is interested in the sustained quality and continued improvement of dental and dental-related education programs but does not intervene on behalf of individuals or act as a court of appeal for treatment received by patients, for individuals in matters of admission, appointment, promotion or dismissal of faculty, staff or students. A copy of the appropriate accreditation standards and/or the Commission's policies and procedures for submission of complaints may be obtained by contacting: Commission on Dental Accreditation, 211 East Chicago Avenue, Chicago, IL 60611-2678, 1-800-621-8099, extension 4653.

### Admission to the Program

A new class of DA students is admitted once a year. Applicants must minimally

1. Meet all admission requirements of Calhoun Community College (CCC);
2. Submit a current year DA program application;
3. Submit a COMPASS or ACT reading score;
4. Have a cumulative GPA of 2.5 or >;
5. Submit an unofficial CCC transcript documenting all applicable course work taken at CCC or accepted in transfer by the Office of Admissions & Records;
6. Have completed 8 hours of dental assisting observation experience, signed by dental office staff;
7. Submit a typed essay discussing observation experiences, why you

- want to be a DA and goals related to dental assisting; and
- Submit two (2) letters of professional recommendation in the requested format.

It is the responsibility of the applicant to ensure the application is complete; incomplete applications will not be considered.

### Selection Process

Meeting minimum requirements does not guarantee acceptance into the DA program. Class size is limited and therefore the application process is competitive. After meeting minimum requirements, applicants are rank-ordered using a 100 point scale. The Admissions Committee meets in June and all applicants are notified by mail no later than July 15th.

### Dental Assisting Student Requirements

After students are enrolled in the DA program and prior to the first clinical experience, they are required to

- Provide evidence of current cardiopulmonary resuscitation (CPR) course completion at the healthcare provider level;
- Submit a current CCC Student Health Form signed by a licensed physician or nurse practitioner;
- Provide medical verification of a two-step Mantoux skin test (chest x-ray if positive) indicating he/she is free of tuberculosis;
- Provide documentation of immunity to mumps & rubella;
- Provide verification of immunization against Hepatitis B &/or positive antibodies &/or sign a waiver;
- Purchase professional liability insurance through the College;
- Arrange for reliable transportation to and from clinical facilities assigned by the Program;
- Abide by the policies of the College and the DA Program Student Policy Manual; and
- Submit to drug testing and a background check.

### Drug Testing / Background Check

As stipulated by the health facilities with which the DA program contracts for clinical education, each student enrolled in the program will undergo drug and alcohol testing and background checks as a pre-condition to beginning clinical experiences. The fees are the responsibility of the student. Policies for the screening process are provided to the student upon enrollment in the program or may be obtained by contacting the Program Director.

### Essential Functions

The DA Essential Functions can be found on the website and in the program application. Their purpose is to outline the cognitive, affective, and psychomotor skills deemed the minimal necessary for admission, progression, and graduation and for the provision of safe and effective patient care. If a student cannot demonstrate the skill and abilities delineated in the essential functions, it is the responsibility of the student to request appropriate accommodations through the CCC Office of Service to Special Populations.

### Program Costs (approximate & in addition to tuition):

Textbooks .....	\$400.00
Malpractice insurance .....	\$10.00
CPR certification.....	\$135.00
Uniforms .....	\$150.00
Lab supplies .....	\$100.00
Drug Testing / Background Check .....	\$75.00
Health Exam, PPD, Immunizations .....	varies
National Certification Exam (DANB) optional .....	\$375.00

### DA Policies / Curriculum

Information contained in this Catalog and the policies and curriculum of the DA program are subject to change at any time. Written notice will be given to all students enrolled in the program prior to the implementation of a change. Please see the dental assisting program website for the most current information.

**Readmission to the Program:** A student may be readmitted to a DA program one time following a failure of or withdrawal from a DAT course. Students who are currently returning following a failure are considered to be using their second and final opportunity to complete the DA program. Students may apply for re-admittance within one year of original entry by submitting a letter of intent to the Program Director.

The readmission of a student is based on the availability of space and the student-teacher ratio, provided the student is eligible to return. Any student requesting readmission must have a minimum Grade Point Average of 2.5 on all course work attempted and should contact the Program Director at 256-306-2812 to schedule an appointment to discuss re-admission requirements. All conditions for students newly enrolling in the program will apply to students returning to the program. Students who re-enter the program may be subject to following the current curriculum and will be required to validate lab skills.

## DENTAL ASSISTING Associate of Applied Science Degree

**Program Code: AAS.DNT**

**CIP Code: 51.0601**

<b>Fall</b>	<b>Cr. Hrs.</b>
ORI 110 Freshman Seminar.....	1
DAT 100 Introduction to Dental Assisting .....	2
DAT 101 Preclinical Procedures I .....	3
DAT 102 Dental Materials .....	3
DAT 103 Anatomy and Physiology for Dental Assistants .....	3
DAT 104 Basic Sciences for Dental Assisting .....	2
*PSY 200 General Psychology.....	3
<b>Spring</b>	<b>Cr. Hrs.</b>
DAT 111 Clinical Practice I.....	5
DAT 112 Dental Radiology .....	3
DAT 113 Dental Health Education .....	2
DAT 116 Preclinical Procedures II .....	3
*MTH Elective (May choose from the following) .....	3
MTH 100 Intermediate College Algebra	
MTH 112 Pre-calculus Algebra	
MTH 116 Mathematical Applications	
*SPH 106 Fundamentals of Oral Communication OR	
SPH 107 Fundamentals of Public Speaking .....	3
<b>Summer</b>	<b>Cr. Hrs.</b>
DAT 114 Dental Office Administration.....	4
DAT 122 Clinical Practice II .....	4
DAT 123 Dental Assisting Seminar .....	4
*ENG 101 English Composition I .....	3

General Education Core Requirements in addition to courses listed above (required for AAS Degree):

## PROGRAMS OF STUDY

*Natural Science elective .....	4
*CIS elective .....	3
*Humanities/Fine Arts elective .....	3
*History or Social Science or Behavioral Science elective .....	3
<b>TOTAL CREDITS .....</b>	<b>64</b>

\*General Education Core Courses may be completed prior to entering the program.

### DENTAL ASSISTING Certificate

**Program Code: CT.DNT**

**CIP Code: 51.0601**

<b>Fall</b>	<b>Cr. Hrs.</b>
ORI 110 Freshman Seminar .....	1
DAT 100 Introduction to Dental Assisting .....	2
DAT 101 Preclinical Procedures I .....	3
DAT 102 Dental Materials .....	3
DAT 103 Anatomy and Physiology for Dental Assistants .....	3
DAT 104 Basic Sciences for Dental Assisting .....	2
EMS 100 CPR I .....	1
*PSY 200 General Psychology .....	3

<b>Spring</b>	<b>Cr. Hrs.</b>
DAT 111 Clinical Practice I .....	5
DAT 112 Dental Radiology .....	3
DAT 113 Dental Health Education .....	2
DAT 116 Preclinical Procedures II .....	3
*MTH Elective (May choose from the following) .....	3
MTH 100 Intermediate College Algebra	
MTH 112 Pre-calculus Algebra	
MTH 116 Mathematical Applications	
*SPH 106 Fundamentals of Oral Communication OR	
SPH 107 Fundamentals of Public Speaking .....	3

<b>Summer</b>	<b>Cr. Hrs.</b>
DAT 114 Dental Office Administration .....	4
DAT 122 Clinical Practice II .....	4
DAT 123 Dental Assisting Seminar .....	4
*ENG 101 English Composition I .....	3

**TOTAL CREDITS .....**52

\*General Education Core Courses may be completed prior to entering the program.

## EMERGENCY MEDICAL SERVICES (EMS)

The Emergency Medical Services (EMS) program utilizes nationally-recognized standards to provide students with knowledge about the critical differences between the physiology, the pathophysiology, and the clinical symptoms of infants, children, adolescents, adults, and the elderly as they relate to pre-hospital emergency patient care situations, and with the skills used in the care of these patients. EMS education includes the legal/ethical considerations and treatment modalities/protocols within the scope of practice of the Emergency Medical Technician (EMT), Advanced Emergency Medical Technician (AEMT), and

Paramedic (NRP). The goal of the EMS program is to prepare competent entry-level EMTs and Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

Students enrolled in EMS programs may earn a certificate or an Associate of Applied Science degree in Emergency Medical Services. The first certificate of completion is the EMT level, the Advanced EMT level (AEMT) certification is optional and not required for Paramedic program admission. Paramedic level students may choose to pursue a long certificate or an AAS degree in EMS. Upon successful completion of each level, the student is eligible to apply to take the National Registry Examination at their respective level of training. Successful completion of the examination is required for state licensure in Alabama as an EMT, AEMT, and Paramedic.

As vital members of the EMS team, EMTs provide pre-hospital emergency care to ill and injured patients, continuing that care until the patient is under the care of a higher level of licensure. EMTs have the knowledge and skills to provide basic life support to all patients whether the problem is trauma, cardiac, or medical. EMTs splint fractures, bandage wounds, and stabilize a patient for transport to a medical facility. AEMTs establish IV lines, insert blind intubation devices and can administer certain medications. Paramedics are the highest level of pre-hospital care in the EMS system. Paramedics record and interpret EKG findings, treat cardiac arrests with defibrillation and cardioversion, reduce shock by intravenous fluid administration, provide ventilation and airway protection by endotracheal intubation and administer pharmacological therapy. Paramedics serve as team leaders on EMS units.

Graduates of the EMS program find employment with ambulance services, hospitals, fire departments, rescue squads and in industrial safety. Other opportunities for employment include emergency clinics, insurance companies, fire service agencies and law enforcement agencies.

The curriculum plans for EMT, AEMT, and Paramedic adhere to the National EMS Education Standards as developed by the National Highway and Traffic Safety Administration and meet the approval of the Alabama Department of Public Health, Office of Emergency Medical Services. EMS courses are open to students who meet general admission and entry-level requirements. All students must complete the COMPASS or ACT prior to admission into an EMS program. EMS students must be certified in CPR at the Health Care Provider level or equivalent and have completed the OSHA Blood borne Pathogens class before entering clinical areas. Passing score for EMS courses is 75%.

To be eligible for clinical training, students must attend a clinical orientation session. Dates, time and location of clinical orientation sessions are published each semester. It is recommended that all students enrolling in EMS courses make an appointment with a member of the EMS faculty for advising prior to enrollment.

Estimated program costs for EMT, AEMT, and Paramedic can be found on the program website <http://www.calhoun.edu/academics/health-programs/ems>

For more EMS program information, including policies on transfer credit, advanced placement, and experiential learning credit, visit the website or contact the health secretary at 256-306-2786 or Program Director Kenneth Kirkland at 256-306-2789, e-mail: [kenneth.kirkland@calhoun.edu](mailto:kenneth.kirkland@calhoun.edu).

## EMERGENCY MEDICAL SERVICES EMT CERTIFICATE

**This certificate program is not eligible for Title IV funding (Pell Grant, SEOG and Direct Student Loan)**

**Program Code: STC.EMT.EMTB CIP Code: 51.0904**

The EMT portion of the program is one semester in length and consists of the following courses, which are taught concurrently three days/evenings per week and must be successfully completed for eligibility for NREMT exam.

EMS 118	Emergency Medical Technician .....	9
EMS 119	Emergency Medical Technician Clinical .....	1

**Total hours for EMT Certificate .....10**

### **PARAMEDIC - Option 1 Long Certificate**

**Program Code: CT.EMS CIP Code: 51.0904**

Paramedic Option 1 (ACCS Track 2 – Long Certificate) is the more traditional path in paramedic education and allows for student attainment of EMT knowledge, skills and licensure. Option 1 applicants must possess a current Alabama EMT license and have completed BIO 201 with a “C” or >. Paramedic Option 1 applications are accepted each spring. The application can be found on the CCC EMS website and admission is a competitive process. Preference is given to applicants progressing thru EMS at CCC. AEMT licensure is NOT required for admission into the Option 1 Paramedic Program.

#### **EMT (one semester)**

EMS 118	Emergency Medical Technician .....	9
EMS 119	Emergency Medical Technician Clinical .....	1
*EMS 100	CPR (optional).....	1
EMS 107	Emergency Vehicle Operations (optional) .....	1
BIO 201	Human Anatomy and Physiology.....	4

**Semester Total .....16**

\*If not certified at the professional level

#### **Paramedic – Option 1 (Long Certificate) - First Semester\***

EMS 240	Paramedic Operations.....	2
EMS 241	Paramedic Cardiology .....	3
EMS 242	Paramedic Patient Assessment.....	2
EMS 257	Paramedic Applied Pharmacology .....	2
MTH 100	Intermediate College Algebra .....	3

**Semester Total .....12**

\*Successful completion of BIO 201 required PRIOR to admission

#### **Paramedic –Option 1 (Long Certificate)- Second Semester**

EMS 244	Paramedic Clinical I (45 clinical hours).....	1
EMS 245	Paramedic Medical Emergencies.....	3
EMS 246	Paramedic Trauma Management .....	3
EMS 247	Paramedic Special Populations .....	2
EMS 248	Paramedic Clinical II (135 clinical hours).....	3
ENG 101	English Composition .....	3

**Semester Total .....15**

#### **Paramedic – Option 1 (Long Certificate) - Third Semester**

EMS 253	Paramedic Transition to the Workforce.....	2
EMS 254	Advanced Competencies for the Paramedic .....	2
EMS 255	Paramedic Field Preceptorship (225 clinical hours) .....	5
EMS 256	Paramedic Team Leadership (45 clinical hours).....	1
SPH 106 or SPH 107	Speech Elective .....	3

**Semester Total .....13**

**Total hours for the Long Certificate .....56**

**NOTE:** Clinical hours for courses are minimum clock hours. Students are required to achieve minimum competencies in each class. Additional hours may be required to achieve minimum competency.

### **PARAMEDIC - Option 1 Associate in Applied Science**

**Program Code: AAS.EMS CIP Code: 51.0904**

Paramedic Option 1 (ACCS Track 2 - AAS) is the more traditional path in paramedic education and allows for student attainment of EMT knowledge, skills and licensure. Option 1 applicants must possess a current Alabama EMT license and have completed BIO 201 with a “C” or >. Paramedic Option 1 applications are accepted each spring. The application can be found on the CCC EMS website and admission is a competitive process. Preference is given to applicants progressing thru EMS at CCC. AEMT licensure is NOT required for admission into the Option 1 Paramedic Program.

#### **EMT (one semester)**

EMS 118	Emergency Medical Technician .....	9
EMS 119	Emergency Medical Technician Clinical .....	1
*EMS 100	CPR (optional).....	1
EMS 107	Emergency Vehicle Operations (optional) .....	1
BIO 201	Human Anatomy and Physiology I.....	4

**Semester Total .....16**

\*If not certified at the professional level

#### **Paramedic – Option 1 (AAS)- First Semester\***

EMS 240	Paramedic Operations.....	2
EMS 241	Paramedic Cardiology .....	3
EMS 242	Paramedic Patient Assessment .....	2
EMS 257	Paramedic Applied Pharmacology .....	2
MTH 100	Intermediate College Algebra .....	3
BIO 202	Human Anatomy and Physiology II.....	4

**Semester Total .....16**

\*Successful completion of BIO 201 required PRIOR to admission

#### **Paramedic –Option 1 - Second Semester**

EMS 244	Paramedic Clinical I (45 clinical hours).....	1
EMS 245	Paramedic Medical Emergencies.....	3
EMS 246	Paramedic Trauma Management .....	3
EMS 247	Paramedic Special Populations .....	2
EMS 248	Paramedic Clinical II (135 clinical hours).....	3
ENG 101	English Composition .....	3
PSY 200	General Psychology .....	3

**Semester Total .....18**

## PROGRAMS OF STUDY

### Paramedic – Option 1 - Third Semester

EMS 253	Paramedic Transition to the Workforce .....	2
EMS 254	Advanced Competencies for the Paramedic .....	2
EMS 255	Paramedic Field Preceptorship (225 clinical hours) .....	5
EMS 256	Paramedic Team Leadership (45 clinical hours) .....	1
SPH 106 or SPH 107	Speech Elective .....	3
	Fine Arts/Humanities Elective .....	3

**Semester Total** ..... 16

**Total hours for Associate of Applied Science degree** ..... 66

**NOTE:** Clinical hours for courses are minimum clock hours. Students are required to achieve minimum competencies in each class. Additional hours may be required to achieve minimum competency.

### **PARAMEDIC – Option 2 Associate in Applied Science**

Paramedic Option 2 (ACCS Track 3 - AAS) is an alternate path to complete paramedic education. Students admitted to Option 2 must have previously completed all general education courses required for the AAS degree, laying a firm foundation for them to enter directly into paramedic education. The prerequisite general education courses include: ENG 101, MTH 100, SPH 106 or 107, BIO 201, BIO 202, PSY 200, and a three credit hour Fine Arts/HUM elective (23 credit hours). While admission does not require the student to possess EMT certification, a student must successfully pass this exam at the end of the 2nd program semester to progress to the final semester. Paramedic Option 2 applications are accepted during the summer for classes starting fall semester. The application can be found on the CCC EMS website and admission is a competitive process. Preference is given to applicants with EMT certification.

### Paramedic – Option 2 – First Semester

EMS 156	AEMT Clinical .....	2
EMS 240	Paramedic Operations .....	2
EMS 241	Paramedic Cardiology .....	3
EMS 242	Paramedic Patient Assessment .....	2
EMS 257	Paramedic Applied Pharmacology .....	2
EMS 273	ECG Interpretation .....	2

**Semester Total** ..... 13

### Paramedic – Option 2 – Second Semester

EMS 244	Paramedic Clinical I .....	1
EMS 245	Paramedic Medical Emergencies .....	3
EMS 246	Paramedic Trauma Management .....	3
EMS 247	Special Populations .....	2
EMS 248	Paramedic Clinical II .....	3
EMS 253	Transition to the Workforce .....	2

**Semester Total** ..... 14

### Paramedic – Option 2 – Third Semester

EMS 254	Paramedic Terminal Competencies .....	2
EMS 255	Paramedic Field Preceptorship .....	5
EMS 256	Paramedic Team Leadership .....	1
EMS 266	Advanced Cardiac Life Support (ACLS) .....	1
EMS 267	Pre-Hospital Trauma Life Support (PHTLS) .....	1
EMS 269	Pediatric Advanced Life Support (PALS) .....	1

**Semester Total** ..... 11

**Prerequisite Gen-Ed Courses** ..... 23

**Total Hours for Option 2 AAS Degree** ..... 61

### **EMS Program EMT, AEMT, and Paramedic**

#### **GENERAL ADMISSION REQUIREMENTS**

Enrolled EMS students are required to successfully complete both the academic and clinical requirements of the program to graduate. The purpose of the Essential Functions is to delineate the cognitive, affective and psychomotor skills deemed the minimal necessary for admission, progression, and graduation and for the provision of safe and effective patient care. Title III of the 1990 American with Disabilities Act provides comprehensive civil rights protection for qualified individuals with disabilities. It is the responsibility of the student to request appropriate accommodations through the CCC Office of Disabled Students.

#### **Physical Demands**

1. Have the physical ability necessary to walk, climb, crawl, bend, push, pull, lift and balance over less than ideal terrain.
2. Have good physical stamina and endurance which would not be adversely affected by having to lift, carry, and balance at times, in excess of 125 lbs. (250 lbs. with assistance).
3. See different color spectrums.
4. Have good eye-hand coordination and the manual dexterity to manipulate equipment, instrumentation, and medications.

#### **Problem Solving Abilities**

5. Be able to send and receive verbal messages as well as operate communication equipment appropriately.
6. Be able to collect facts to organize data accurately and communicate clearly, both orally and in writing, in the English language at the ninth-grade level or higher.
7. Be able to differentiate between normal and abnormal findings in human physical conditions using visual, auditory, olfactory, and tactile observations.
8. Be able to make good judgment decisions and exhibit problem-solving skills under stressful situations.
9. Be attentive to detail and aware of standards and rules that govern policies.
10. Implement therapies based on mathematical calculations.

#### **Worker Characteristics**

11. Possess the emotional stability to be able to perform duties in life-or-death situations and in potentially dangerous social situations, including responding to calls in districts known to have high crime rates.
12. Be able to handle stress and work well as part of a team.
13. Be oriented to reality and not be mentally impaired by mind-altering substances.
14. Not be addicted to drugs or alcohol.
15. Be able to work 24 hours in length, if necessary.
16. Be able to tolerate being exposed to extremes in the environment including variable aspects of weather, hazardous fumes, and noise.
17. Possess eyesight in a minimum of one eye correctable to 20/20 vision

and be able to determine directions according to a map. (Students who desire to drive an ambulance must possess approximately 180-degree peripheral vision capacity, must possess a valid Alabama driver's license, and must be able to safely and competently operate a motor vehicle in accordance with state law).

18. Have the ability to follow established criteria even in the absence of direct supervision.

### ENTRY LEVEL REQUIREMENTS

#### EMT & AEMT

1. Have completed the ACT or COMPASS
2. Meet all institutional admission requirements
3. Successfully complete Basic Cardiac Life Support for the Healthcare Provider
4. Submit to a physical examination by a licensed MD, DO or CRNP to include:
  - a. Written documentation (on a form provided by the program) of the examiner's opinion regarding the prospective student as follows:
    - the emotional and physical ability to carry out the normal activities of pre-hospital emergency care
    - compliance with the EMS Essential Functions
    - a health history
  - b. Current immunizations to include:
    - Tetanus D within past 10 years
    - MMR vaccine prior to 1969 or rubella titer 1.8 or >
    - Two step TB skin test (chest x-ray if positive)
    - Hepatitis B vaccine series, positive hepatitis B titer or signed waiver of vaccination refusal
    - Appropriate influenza vaccine for clinical courses SP/FA semesters
  - c. Visual / auditory / verbal ability to include:
    - vision corrected in one eye to 20/20 (students who desire to drive an ambulance must also possess approx. 180 degrees of peripheral vision capacity)
    - color perception
    - ability to send and receive verbal messages
5. Purchase current professional liability insurance thru the health division
6. Submit proof of health/hospitalization/accident insurance or a signed waiver of release of liability
7. Submit to a background check and drug screen, at the student's expense, completed by college selected agencies. Both must be negative as defined in Division policies.
8. All AEMT students must possess an Alabama EMT license prior to registration for AEMT courses.

**Students will be required to utilize tracking services for clinical requirements with a third party vendor selected by the college.**

#### PARAMEDIC

In addition to the above requirements, items 1-8, students entering courses at the paramedic level must also:

1. Have a minimum cumulative GPA of 2.5 or >
2. Submit Paramedic Program Application found online.
  - Option 1 applicants: have completed BIO 201 with a C or >
  - Option 1 applicants: possess a current Alabama EMT license
  - Option 2 applicants: have completed all pre-requisites courses

#### Licensure

Program graduates are required to comply with specific licensure

requirements as set forth by the National Registry of EMTs and the Alabama Department of Public Health to become licensed as an EMT, AEMT, or Paramedic. Situations which may affect licensure compliance include, but are not limited to:

1. Not being 18 years of age or older;
2. Convicted of any criminal act, incl. DUI convictions;
3. Addicted to the use of intoxicating liquors or controlled substances at present or in the past;
4. Not possessing 180-degree peripheral vision capacity.

#### Readmission

A student may be readmitted to an EMS course one time following a failure due to poor academic performance or a withdrawal. A student will not be readmitted to the EMS program if he/she has been removed from class or a clinical rotation due to unprofessional behavior or patient endangerment. Students who return following a failure or withdrawal are considered to be using their second and final opportunity to complete the EMS program. Readmission of eligible students is based on the availability of space.

Readmission requirements:

1. Written notification at least one month in advance to the EMS program director that the student desires to reenter the program.
2. A current minimum cumulative grade point average of **2.0 for EMT and AEMT**; a current minimum cumulative GPA of **2.5 for paramedic**.
3. For paramedic courses, no longer than twelve (12) months may elapse between completion of an EMS paramedic course and enrollment in subsequent courses.

Students in the Health Division are readmitted under the CCC Catalog in effect the year of readmission.

When there is probable cause, the Allied Health Department reserves the right to require a prospective student, a student currently enrolled in a program, or a returning student to submit to psychological testing/counseling, a drug screening and/or a physical examination by a licensed physician at the student's expense and to submit a report of the outcomes to the AH Dept. The AH Dept. will provide a specific form for this purpose, when applicable. All reports will be reviewed by the AH Dept. to determine if a student may be admitted, readmitted, or retained in EMS courses.

In conjunction with CCC Workforce Solutions, continuing education courses may be offered by request. Those interested should contact the EMS office at 256/306-2852.

Policies for the EMS program are subject to change at any time. Written notice will be given to students enrolled in EMS courses prior to implementation of policy change.

## MEDICAL LABORATORY TECHNICIAN (MLT)

A medical laboratory technician is an integral part of the healthcare team.

## PROGRAMS OF STUDY

The responsibilities of a MLT include processing and analyzing blood, body fluid or other specimens in order to provide accurate and timely information to the ordering physician. The clinical information produced by the clinical laboratory technician is utilized to make diagnostic and treatment decisions. The program can be completed in five (5) semesters.

The College is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) for the clinical laboratory technician program. Graduates, upon successful completion of an accredited program, will be eligible, but not required, to take a nationally-recognized certificate exam, the ASCP (American Society for Clinical Pathologists) Medical Laboratory Technician (MLT) certification exam. Be advised that a criminal and/or drug history could result in denial of permission to take the credentialing examination. The address for NAACLS is as follows: 5600 N. River Road, Suite 72D0, Rosemont, IL. Website: [www.naacls.org](http://www.naacls.org)

### DRUG TESTING/BACKGROUND CHECKS

As stipulated by the health agencies with which the Allied Health Department contracts for clinical experience, each student enrolled in any clinical experiences at Calhoun Community College will undergo health screen, drug, alcohol testing and/or background checks as a precondition to beginning a clinical rotation. The fee for testing/checks is the responsibility of the student. Written guidelines for the process will be provided to the student at the beginning of the program.

### POLICIES AND CURRICULUM

Policies and Curriculum for the Associate Degree Clinical Laboratory Technician program are subject to change at any time. Written notice will be given to all students enrolled in MLT courses prior to implementation of change.

## MEDICAL LABORATORY TECHNICIAN (MLT) Associate of Applied Science Degree

**Program Code: AAS.MLT**

**CIP Code: 51.1004**

### GENERAL EDUCATION CORE REQUIREMENTS

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition I .....	3
ENG 102	English Composition II OR Humanities Elective .....	3
MTH 100	Intermediate College Algebra or Higher.....	3
BIO 103	Principles of Biology .....	4
CHM 104	Intro. to Inorganic Chemistry .....	4
Speech Elective (Choose from SPH 106 OR 107 OR 116)	.....	3
PSY 200	General Psychology.....	3
<b>TOTAL.....</b>		<b>24</b>

### MAJOR COURSE REQUIREMENTS

CLT 111	Urinalysis & Body Fluids.....	4
CLT 121	Hematology .....	5
CLT 131	Laboratory Techniques .....	4
CLT 141	Microbiology I.....	5
CLT 142	Microbiology II.....	4
CLT 151	Clinical Chemistry .....	5
CLT 161	Integrated Laboratory Simulation.....	2
CLT 181	Immunology.....	2

CLT 191	Immunohematology.....	5
CLT 293	Clinical Seminar .....	2
CLT 294	Practicum I (U/A & Heme).....	3
CLT 295	Practicum II (Micro) .....	3
CLT 296	Practicum III (Blood Bank) .....	3
CLT 297	Practicum IV (Chemistry) .....	3

**TOTAL.....50**

**TOTAL CREDITS .....74**

### ADMISSION REQUIREMENTS

Applicants must meet the minimum admission standards to be considered for selection. Class enrollment is limited and applicants are rank-ordered using a 100-point system. Applicants not meeting minimum admission standards *will not be considered*. Minimum admission standards for the Associate Degree Clinical Laboratory Technician Program are listed on the MLT website.

### SELECTION PROCESS

Since class size is limited, the Admission Committee will evaluate each applicant's academic performance and select applicants with the strongest academic record. A 100-point system is used to evaluate academic standing based on the calculation of points for students meeting Minimum Admission Requirements.

### ENROLLMENT REQUIREMENTS FOR MLT AAS DEGREE PROGRAM

Once enrolled in the MLT program but prior to being scheduled for any clinical experience, the student must

1. Provide a current Health Division Student Health Form (to be provided) that has been completed by a licensed physician or nurse practitioner.
2. Ability to perform essential functions as listed on health form.
3. Present proof that they have received the three (3) Hepatitis B vaccinations or proof of immunity to the Hepatitis B virus. If a student chooses not to receive the Hepatitis B vaccine, they must sign a form indicating their refusal (waiver form).
4. Provide proof of purchase of professional liability insurance through the College as required by MLT program.
5. In addition to the above College requirements, the contracts between Calhoun Community College and area healthcare providers require proof of the following prior to students being scheduled for or attending a clinical experience:
  - Current cardiopulmonary resuscitation (CPR) course completion, professional level,
  - Drug and / or alcohol abuse testing, and
  - Criminal background check.
6. Fees / costs for all of the above enrollment requirements will be the sole responsibility of the student.

### ESSENTIAL FUNCTIONS

Students enrolling and completing the MLT program must meet the following essential function skills:

1. Accurately observe demonstrations and exercises including functional use of senses of vision, smell, touch, and hearing.
2. Communicate orally, in writing, and with computer functions using the English language.
3. Perform psychomotor skills including specimen collections, instrument manipulation, manual laboratory procedures, lifting, standing, sitting, and walking.
4. Use intellectual and cognitive skills to measure, calculate, analyze, integrate, and apply information.
5. Possess emotional, behavioral, and social health to participate collaboratively and flexibly as a professional team member.
6. Apply ethical standards to peers, faculty, staff and patients.
7. Perform academically to obtain relevant information from various teaching methods, laboratory exercises, and clinical practicums.

### PROGRESSION IN THE PROGRAM

Students are expected to meet co-requisite requirements to progress in the program. Students must maintain a minimum of a 2.0 GPA in all courses taken and/or transferred to Calhoun to continue in the program. Once accepted into the MLT program, all coursework requires a grade of C or better to progress.

The course curriculum must be followed as listed on current schedules.

## MUSIC INDUSTRY COMMUNICATIONS

This program is for those interested in specializing in coursework which has application to the recording and publishing industries as well as to contemporary performance. Students are required to complete six credits of music performance electives and should consult a faculty advisor about this requirement.

### MUSIC INDUSTRY COMMUNICATIONS Associate of Applied Science Degree

**Program Code: AAS.MUIC**

**CIP Code: 50.0999**

#### GENERAL EDUCATION CORE REQUIREMENTS

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition I .....	3
	Math Elective .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
MIC 253	Computer Lit. for Musician I .....	3
	Humanities Elective .....	3
	Natural Science/Math Elective.....	3
	Social Science Elective.....	3

**Total .....22**

#### MAJOR COURSE REQUIREMENTS

MIC 100	Introduction to Mass Communications.....	3
MIC 153	Introduction to Recording Technology .....	3
MIC 201	Publishing for the Recording Industry.....	3
MIC 250	Mass Communications Practicum .....	3
MIC 251	Recording Studio Production .....	3
MIC 254	Computer Literacy for the Musician II.....	3
MIC 255	Digital Recording .....	3
MIC 293	Music Notation.....	3
MUS 101	Music Appreciation .....	3
MUS 103	Survey of Pop Music.....	2
MUS 110	Basic Musicianship.....	3
MUS 291	Musical Acoustics .....	3
MUS 292	Song Writing.....	3
MUL 192A	Instrumental Ensemble I.....	2
MUL 193A	Instrumental Ensemble II.....	2
MUL elective	.....	2

**Total .....44**

**TOTAL CREDITS .....66**

## NURSING

### DECATUR CAMPUS

**Associate Degree Nursing (ADN)**

**LPN to RN Career Mobility ADN (CM)**

**Paramedic to RN Mobility ADN**

**Practical Nursing (PN)**

**Nursing Assistant (NAS)**

The philosophy of the nursing programs is consistent with the mission, goals and objectives of The Alabama Community College System and Calhoun Community College. The nursing department offers curricula to develop the knowledge, skills, and abilities necessary for entry level employment in practical (PN) and professional (RN) nursing. The mission of the nursing programs of the Alabama Community College System is to prepare graduates to practice safe, competent, patient-centered care in an increasingly complex and rapidly changing health care system. We seek to provide full and equal access to opportunities for educational success to meet the community needs.

The CCC nursing department offers associate degree (RN) courses in day or evening, RN Bridge for LPN/Paramedic and Practical Nursing certificate (LPN). The Alabama Community College System has implemented a standardized and seamless PN to RN curriculum, where after successful completion of three semesters, students are eligible to sit for the National Council Licensure Examination for Practical Nurses (NCLEX-PN) and apply to a state board of nursing for licensure as a practical nurse, or after successful completion of five semesters, students are eligible to sit for the National Council Licensure Examination for Registered Nurses (NCLEX-RN) and apply to a state board of nursing for licensure as a registered nurse. Please visit our website at [www.calhoun.edu](http://www.calhoun.edu) for more information.

#### GENERAL INFORMATION

### ACCREDITATION STATUS

Nursing programs have the full approval of the Alabama Board of Nursing and are accredited by the Accreditation Commission for Education in Nursing (ACEN). Accreditation information regarding the nursing program may be obtained from the Accreditation Commission for Education in Nursing, 3343 Peachtree Rd. NE, Suite 850, Atlanta, GA 30326. Telephone: 404-975-5000. [www.acenursing.org](http://www.acenursing.org)

### CAREER DESCRIPTION

The practice of nursing is for individuals who are service oriented, intellectually mature with a strong sense of self-direction and motivation and who are able to work and interact with people of all ages and from various backgrounds. Registered Nurses (RN) assess the current health status of clients, plan care, administer treatments and medications, and provide education and emotional support for clients and their families. They perform a variety of nursing functions requiring communication skills, critical thinking, decision making, and sound judgment. RNs work in hospitals, long term care facilities, home health care, physician offices, outpatient clinics and other settings and play a vital role in the quality and effectiveness of health care. RNs can specialize in a variety of areas of patient care, and with additional education, RNs have the opportunity to function in advance practice roles such as nurse practitioner nurse anesthetist, nurse midwife, or nurse educator. The CCC ADN program is designed to educate individuals in providing nursing care to patients of all ages in a variety of health care settings. Nursing is a collaborative and/or independent process in which the nurse interacts with individuals applying documented, scientific knowledge through the use of the nursing process. Nursing courses provide sequential nursing knowledge, experience and skills for the safe practice of nursing. Ethical and legal accountability are stressed.

### Licensure Information

Upon graduation from a nursing program an individual will be eligible to apply to write the National Council Licensure Examination for Practical Nurse (NCLEX-PN) or for Registered Nurse (NCLEX-RN) and apply to any state board of nursing for licensure as a practical or registered nurse. However, completion of an academic program in nursing in no way assures an individual of licensure. Legal requirements for licensure may be found in the Alabama Board of Nursing (ABN) Administrative Code ([www.abn.state.al.us](http://www.abn.state.al.us)) and include being of good moral character. Applicants who have been found guilty of any offenses listed in the Code may be denied licensure by the ABN and any other state board of nursing. The ABN, as well as other state boards of nursing, has the power to deny eligibility for licensure to any candidate who is guilty of fraud or deceit in attempting to procure a licensure; has been convicted of a felony; is guilty of a crime involving moral turpitude or gross immorality that would tend to bring reproach upon the nursing profession; is unfit or incompetent due to the use of alcohol, or is addicted to the use of habit forming drugs to such an extent as to render him or her unsafe or unreliable as a licensee; has been convicted of any violation of a federal or state law relating to controlled substances; is mentally incompetent; is guilty of unprofessional conduct of a character likely to deceive, defraud or injure the public in matters pertaining to health or has willfully or repeatedly violated any of the provisions of this article as defined by board rules and regulations.

### ALABAMA BOARD OF NURSING

### REGULATORY QUESTIONS FOR EXAM APPLICANTS

1. Have you ever been arrested for, been charged with, been convicted of, entered a plea of guilty to, entered a plea of nolo contendere or no contest for, received deferred prosecution or adjudication for, had judgment withheld for, received pretrial diversion for, or pleaded not guilty by reason of insanity or mental defect to any crime other than a minor traffic violation in any state, territory or country? Any crime related to driving while impaired or while under the influence of any substance is not a "minor traffic violation".
2. In the past five years, have you abused alcohol, drugs (whether legal or illegal, prescribed or unauthorized), and/or other chemical substances or received treatment or been recommended for treatment for dependency to alcohol, drugs (whether legal or illegal, prescribed or unauthorized) and/or other chemical substances?
3. Have you ever been arrested or convicted for driving under the influence of drugs/alcohol?
4. In the past five years, have you had, or do you now have, a physical or mental health problem that may impair your ability to provide safe nursing care?
5. Has the licensing authority of any state, territory, or country denied, revoked, suspended, reprimanded, fined, accepted your surrender of, restricted, limited, placed on probation, or in any other way disciplined your nursing and/or any other occupational license, registration, certification, or approval?
6. Is the Board of Nursing or other licensing authority of any state, territory, or country, including but not limited to the Alabama Board of Nursing currently investigating you?
7. Is disciplinary action pending against you with the Board of Nursing or other licensing authority of any state, territory or country, including but not limited to the Alabama Board of Nursing?
8. Have you ever been placed on a state and/or federal abuse registry?
9. Has any branch of the armed services ever administratively discharged you with any characterization of service besides "Honorable" and/or court-martialed you?

An applicant who answers "YES" to a question is not automatically denied licensure but must provide the ABN with a detailed, written explanation and the appropriate court/treatment records must accompany the application for examination and licensure. If the documents are not received along with the application, the applicants can expect to be delayed in taking the examination. By a full explanation, the Board expects more than a statement naming the crime for which the applicant was convicted. The explanation should contain a full recitation of whom and why the crime occurred and the applicant's history since the crime. If the applicant has indicated a history of mental illness or chemical dependency, a full explanation including treatment records, urine screens, doctor's statements, etc. must be received with the application. Applicants also should be aware that they must disclose arrests that did not result in convictions and attach those court records. Misdemeanors also must be disclosed. These include checks written on accounts with insufficient funds and DUI. Minor traffic violations are excluded. If the Board of Nursing later learns of arrests or convictions not originally disclosed, such will be considered to be fraud and deceit in procuring a license and disciplinary action will be forthcoming.

The Alabama Board of Nursing will determine whether or not the applicant may write the examination for licensure and be licensed as a registered nurse. Any questions regarding this matter should be directed to the ABN.

### **Student Standards of Conduct**

The nursing student shall comply with the legal, ethical, moral, and legislative standards, which determine acceptable behavior of a nurse and shall avoid those behaviors which may be cause for denial of licensure to practice as a nurse, in accordance with Alabama law regulating practice of Registered and Practical Nursing and the ABN Administrative Code.

When there is probable cause, the nursing department faculty reserves the right to require a prospective student, a student currently enrolled in a program, or a returning student to submit to psychological testing/counseling, drug screening, and/or a physical examination by a licensed physician at the student's expense and to submit a report of the outcome to the nursing faculty. The department will provide a specific form for this purpose, when applicable. All reports may be reviewed by the department faculty to determine if a student may be admitted, readmitted, or retained in the nursing program.

### **Drug Testing and Background Checks**

As stipulated by the health division contracts for clinical education, each student accepted in any nursing program will undergo drug testing and a criminal background check as a precondition to enrollment. Students will also be subject to random drug or alcohol testing for "cause". All testing fees are the responsibility of the student. Related policy is provided to the student upon enrollment in a program. Students who test positive for drugs or alcohol and/or are denied clinical access by a clinical affiliate based on the criminal background check will be disallowed from clinical learning experiences, resulting in a failure of the course.

### **Essential Functions for Nursing Programs**

The purpose of the Essential Functions is to outline the cognitive, affective and psychomotor skills deemed minimally necessary for admission, progression, and graduation and for the provision of safe and effective patient care. The Alabama Community College System endorses the American's with Disabilities Act. If a student cannot demonstrate the skills and abilities delineated in the essential functions, it is the responsibility of the student to request an appropriate accommodation through the Office of Services to Special Populations. In accordance with College policy, when requested, reasonable accommodations may be provided for individuals with disabilities. The Essential Functions can be found on the nursing website and in program applications.

### **NURSING PROGRAM POLICIES**

Policies/Curriculum for the Nursing Department Programs are subject to change at any time. Written notice will be given to all students enrolled in nursing courses prior to implementation of change.

#### **Admission Requirements for Nursing Programs:**

- Unconditional admission to the college
- Receipt of completed application for admission to nursing program before published deadline
- A minimum of 18 ACT composite score National or Residual
- A minimum of 2.5 GPA for nursing required academic core courses
- A minimum of 2.5 GPA cumulative high school GPA for students without prior college courses (GED will be used if applicable)
- Meet the essential functions for nursing
- Eligible for ENG 101, BIO 201 and MTH 100

There is no expiration date on general education courses (ENG, BIO, MTH)

#### **Selection Criteria for Nursing Program:**

- ACT score. Possible 36 points with no time limit on when the test was taken.
- Points from Nursing required college courses (i.e. ENG 101, MTH 100 or higher, BIO 201 and BIO 202)
  - Points for grades are as follows: A=3 points, B=2 points and C=1 point
- Additional 10 points awarded as determined by the individual college policy and procedure.

### **Application Process**

Admission to a nursing program is competitive and the number of students accepted is limited. Prospective students will find more information on the website including specific nursing program applications, admission requirements, and the applicant selection process.

1. After meeting all minimum admission requirements, applicants are rank-ordered using a point system. Point calculation is subject to change as dictated by college policy and/or as dictated by the Alabama Community College System Policy.
2. Applicants to a nursing program will be notified in writing regarding admission decisions.
3. Students selected for enrollment must respond to confirm their acceptance.
4. If not selected for admission, a new application must be submitted the following cycle.

### **Enrollment Requirements**

Prior to registration in nursing courses, students selected for admission to a nursing program will be required to provide:

1. Current cardiopulmonary resuscitation (CPR) course completion - must be American Heart Association Health Care Provider, American Safety and Health Institute CPR Pro, or American Red Cross CPR for the Professional Rescuer.
2. Current CCC Student Health Form and Essential Functions Form that have been completed in their entirety by a licensed physician or nurse practitioner, verifying a state of physical and mental health such that the student is able to complete all program requirements without presenting undue risk/harm to the student or other persons. (Forms available on Calhoun Nursing webpage)
3. Up-to-date immunizations including:
  - Two-step TB Mantoux skin test (or chest x-ray if positive) OR three consecutive annual negative skin tests. Annual update is required;
  - MMR Vaccine or titer verifying immunity;
  - Varicella (chicken pox) Vaccine or titer verifying immunity;
  - Tetanus/Diphtheria Vaccination;
  - Hepatitis B immunization series, or titer verifying immunity or a signed waiver. It is recommended that all nursing students be immunized against Hepatitis B.
4. Verification of current health/hospitalization/accident insurance or signed waiver of liability; and purchase of Professional Liability (Malpractice) Insurance through the college
5. "Clear" background check and drug screen results completed by the College's selected agency at the student's expense. Annual update is required.
6. Abide by the policies of the College and Nursing Department Student Policy Manual.

### **Grading**

A grade of "C" or above is required in all general education courses required

in a nursing program curriculum plan taken and/or transferred to Calhoun. To graduate from a nursing program a student must successfully complete the prescribed program of study with a 2.00 overall Grade Point Average (GPA). The grading policy for nursing programs is more stringent than the general college grading. A passing score for all nursing courses (NUR) is a grade of "C" which is 75-79%. It is the belief of faculty that having a strict grading policy helps to better ensure knowledge and competency. Holding nursing students to more rigorous standards is necessary due to the nature of the profession relative to patient safety.

### Progression Policy

In order to progress in the nursing program, the student must:

- Achieve a grade of "C" or better in all required general education and nursing courses.
  - Be acceptable to clinical agencies for clinical experiences.
  - Maintain ability to meet Essential Functions for nursing with or without reasonable accommodations.
  - Maintain program health requirements.
1. A total of two (2) unsuccessful attempts in two separate semesters (W, D or F) in the nursing program will result in dismissal from the program.
  2. A student may be reinstated to the nursing program only one time. The reinstatement is not guaranteed due to limitations in clinical spaces. All nursing program admissions standards must be met.
  3. A student must have a 2.0 cumulative GPA at the current institution for reinstatement.
  4. If a student has a documented extenuating circumstance that should be considered related to a withdrawal or failure, then this student may request a hearing before the Admission Committee or other appropriate college committee for a decision on repeating a course or readmission to the program.
  5. A.D.N. students whose second unsuccessful attempt occurs in NUR 211 or NUR 221 may apply for the Bridge program. These students must meet all admission requirements for the Bridge Program, including 2.5 cumulative GPA and valid Alabama Practical Nursing License.

### Definitions

Reinstatement - Students who have a withdrawal or failure in a nursing course and are eligible to return to that course will be considered for reinstatement to the program.

Readmission - Students not eligible for program reinstatement may apply for program admission as a new student and must meet all application criteria. If accepted as a new student, the student must take or retake all nursing program courses.

### Process for Reinstatement

1. Students should first schedule an appointment with a Nursing faculty/advisor to discuss eligibility for reinstatement.
2. Students must apply for reinstatement to the nursing program and submit the application with ACT test results and Letter of Intent by published deadlines.
3. Students must apply for readmission to the college if not currently enrolled. College readmission must be accomplished by published deadlines.
4. Update immunizations, CPR, drug testing and background screening according to program policy.
5. Demonstrate competency in previous course(s) as required by the College's nursing program.

6. Apply to the nursing program for reinstatement within one year from the term of withdrawal or failure in the nursing program.
7. Adhere to nursing curriculum or program policies and procedures in effect at the time of reinstatement.

Notification of reinstatement decision is made in writing.

### Transfer Requirements

The transfer policy applies to students desiring to transfer between Alabama Community College System institutions. It does not apply to students wishing to transfer from other institutions.

1. Criteria for Transfer: Meet minimum admission standards for the nursing program.
2. Must possess a grade of C or better in all nursing program required courses taken at another institution and possess a minimum of a 2.0 cumulative GPA at time of transfer.
3. Dean/Director of previous nursing program must provide a letter of eligibility for progression in previous nursing program. Must comply with all program policy requirements at accepting institution.
4. Complete at least 25% of the nursing program required courses for degree/certificate at the accepting institution.
5. Must meet acceptability criteria for placement at clinical agencies for clinical experience.
6. Acceptance of transfer students into nursing programs is limited by the number of faculty and clinical facilities available. Meeting minimal standards does not guarantee acceptance.

### Transient Student Policy

The transient policy applies only to students desiring to transfer between Alabama Community College System institutions. It does not apply to students wishing to transfer from other institutions.

### Criteria for Transient Status:

1. Must meet minimum admission standards for the nursing program.
2. Must possess a grade of C or better in all nursing program required courses taken at another institution and possess a minimum of 2.0 cumulative GPA.
3. Dean/Director of previous nursing program must provide a letter of eligibility for progression in previous nursing program.
4. A student enrolled at another institution must secure permission from that institution by submitting an application for admission to the College and a Transient Student Form completed by an official (Nursing Program Dean/Director) of the primary institution.
5. Transient students must complete a Transcript Request Form at the end of the term before a transcript will be issued to the primary institution.
6. Must comply with all program policy requirements at accepting institution.
7. Must meet acceptability criteria for placement at clinical agencies for clinical experience.
8. Acceptance of transient student into a nursing program is limited by the number of faculty and clinical facilities available. Meeting minimal standards does not guarantee acceptance.

### Program Completion

Students completing NUR 112, 113, 114, and 115 and required academic courses will be awarded the Practical Nursing certificate. Students who have completed required academic courses and continue in the program through completion of NUR 211 and 221 will be awarded an Associate Degree in Applied Science. Students are responsible for meeting all the progression, and graduation requirements. To graduate, a student must successfully complete

the prescribed program of study with a 2.0 overall Grade Point Average (GPA).

### PN Progression

Students completing NUR 112, 113, 114, and 115 at an institution that only offers the PN program and who wish to transfer to another institution to complete the ADN degree, must meet the requirement for 25% course completion at college of graduation. Students who cannot meet the 25% course requirement must apply for the RN Bridge and take the transition course to meet the 25% course requirement.

### Associate Degree Nursing Program Costs (approximate)

Students will be required to provide their own transportation to assigned clinical facility

Credentialing/HealthExam/PPD/Immunizations, Annually .....	\$15.00
CPR Class .....	\$144.00
Drug Testing/Background Check, Annually.....	\$75.00
Graduation Pictures.....	\$25.00
Graduation Fees .....	\$20.00
Licensure Fee .....	\$85.00
Malpractice Insurance, Annually .....	\$10.00
NCLEX Fee .....	\$200.00
NCLEX Review Course .....	\$400.00
NCSBN NCLEX REVIEW .....	\$70.00
Nurse Pack .....	\$135.00
Standardized testing resources .....	\$110.00 per semester
Temporary License (optional).....	\$50.00
Textbooks (approximate) .....	\$800.00 per year
Tuition.....	see current semester schedule
Uniforms/program patch .....	\$200.00

## NURSING

### Associate of Applied Science Degree

**Program Code: AAS.NURS**

**CIP Code: 51.3801**

#### Associate Degree Nursing Curriculum Plan

The ADN track is 5 semesters in length incorporating both nursing and general education classes. All courses must be taken and successfully completed in order, though any or all of the general education requirements may be fulfilled earlier. Classes meet in the Health Sciences Center on the Decatur campus. In addition, clinical education takes place at area health care facilities each semester. The required number of hours varies with each nursing course. Health facility assignments are based on the learning needs of the student, not geographical proximity to their home. Calhoun offers day and evening admission to the RN program.

#### ADN Curriculum Plan

##### First Term

Course	Hours
Nur 112 Fundamental Concepts of Nursing .....	7
MTH 100 Intermediate College Algebra .....	3
BIO 201 Anatomy and Physiology I .....	4
<b>Total .....</b>	<b>14</b>

##### Second Term

Course	Hours
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NUR 113	Nursing Concepts I .....	8
ENG 101	English Composition I .....	3
PSY 210	Human Growth and Development .....	3
BIO 202	Anatomy and Physiology II .....	4
<b>Total .....</b>		<b>18</b>

##### Third Term

Course	Hours
NUR 114    Nursing Concepts II .....	8
NUR 115    Evidence Based Clinical Reasoning.....	2
SPH 106    Speech .....	3
or 107	
<b>Total .....</b>	<b>13</b>

##### Fourth Term

Course		Hours
NUR 211	Advanced Nursing Concepts.....	7
BIO 220	Microbiology.....	4
<b>Total .....</b>		<b>11</b>

##### Fifth Term

Course		Hours
NUR 221	Advanced Evidence Based Clinical Reasoning.....	7
HUM	(Ethics Preferred) .....	3
<b>Total</b>	.....	<b>10</b>

**BIO 103 and PSY 200 are waived as pre-requisites for students entering PN or RN programs.**

**TOTAL CREDIT HOURS .....66**

## NURSING

### RN Bridge for the Licensed Practical Nurse and Paramedic Associate of Applied Science Degree

**Program Code: AAS.NURCM**

**CIP Code: 51.3801**

#### Admission Requirements

In addition to the general admission requirements for the College, admission to the RN Bridge requires:

1. Meets all nursing program general admission requirements. (See Minimum Admission Requirements)
2. An unencumbered or unrestricted license as a Practical Nurse or Paramedic in Alabama.

#### Associate Degree Nursing/RN Bridge Program

The RN Bridge program is a 3-semester program to prepare licensed practical nurses and paramedics to obtain an associate in applied science degree in nursing.

#### Prerequisites:

MTH 100	Intermediate College Algebra (or higher).....	3 hours
ENG 101	English Composition .....	3 hours
BIO 201	Human Anatomy & Physiology I.....	4 hours
BIO 202	Human Anatomy & Physiology II .....	4 hours
PSY 210	Human Growth & Development.....	3 hours

## PROGRAMS OF STUDY

SPH 106 or 107 Speech..... 3 hours

**Total Prerequisites: ..... 20 credit hours**

### RN Bridge Curriculum Plan

#### First Term

Course	Hours
NUR 209 Concepts for Healthcare Transition Students .....	10

**Total ..... 10**

**After successful completion of NUR 209, the student will be awarded 15 hours of non-traditional credit in addition to the 10 credit hours for the course for a total of 25 hours**

#### Second Term

Course	Hours
NUR 211 Advanced Nursing Concepts .....	7
BIO 220 Microbiology.....	4

**Total ..... 11**

#### Third Term

Course	Hours
NUR 221 Advanced Evidence Based Clinical Reasoning.....	7
HUM (Ethics Preferred) .....	3

**Total ..... 10**

**BIO 103 and PSY 200 are waived as pre-requisites for students entering PN or RN programs.**

**TOTAL CREDIT HOURS ..... 66**

## NURSING Practical Nursing Program Certificate

**Program Code: CT.LPN**

**CIP Code: 51.3901**

**This program is subject to the Credit to Clock Hour conversion as defined by Title IV and may not be fully funded with Title IV funds (Pell Grant, SEOG and Direct Student Loans)**

PN students must maintain 37.5 contact hours/week to be considered full-time for financial aid purposes

### Career Description

Licensed Practical Nurses (LPNs) represent the second largest health care providing group in America, after RNs. LPNs provide direct patient care under the supervision of an RN, physician or dentist. They perform a variety of nursing functions requiring communication skills, critical thinking, decision making, and sound judgment. LPNs work in hospitals, long term care facilities, home health care, schools, physician / dentist offices and other settings. Practical nurses have a vital role in the delivery of quality and effective health care. The curriculum revolves around technical excellence using the nursing process as a means by which students relate theory to practice. It incorporates the knowledge, values, and skills required for safe, effective patient care. Ethical and legal accountability are stressed. The practice of nursing is for individuals who are service oriented, intellectually mature with a strong sense of self direction and motivation and who are able

to work and interact with people of all ages and from various backgrounds.

Note: Nursing courses are offered only on the Decatur campus. Students entering the PN program must complete the PN program. Students may not transfer into the ADN program; however, students may apply for admission to the ADN program as a new student.

### Practical Nursing Program Costs (approximate)

Note: Students are required to provide his/her own transportation to assigned clinical facility

Credentialing/HealthExam/PPD/Immunizations, Annually .....	\$15.00
CPR Class.....	\$144.00
Drug Testing/Background Check, Annually.....	\$75.00
Graduation Pictures.....	\$25.00
Graduation Fees .....	\$20.00
Licensure Fee .....	\$85.00
Malpractice Insurance, Annually .....	\$10.00
NCLEX Fee .....	\$200.00
Nurse Pack .....	\$135.00
Standardized testing resources .....	\$110.00 per semester
Temporary License (optional).....	\$50.00
Textbooks (approximate) .....	\$800.00 per year
Tuition.....	see current semester schedule
Uniforms/program patch .....	\$200.00

### Practical Nurse Curriculum Plan

The practical nursing program curriculum plan is three semesters in length with a total of 45 credit hours; 20 hours in general education and 25 hours in nursing. All courses must be taken and successfully completed in order, though any or all of the general education requirements may be fulfilled prior to enrollment in the PN program. Enrolled students attend NUR classes in the Health Sciences Center on the Decatur campus. In addition, clinical education takes place at area health care facilities each semester. The required number of hours varies with each nursing course. These experiences are primarily scheduled weekdays between the hours of 6:00 AM and 6:00 PM. Health facility assignments are based on the learning needs of the student, not geographical proximity to their home. Graduates receive a certificate and are eligible to apply to write the National Council Licensure Examination for Practical Nurses (NCLEX-PN®) and apply to a state board of nursing for licensure as a practical nurse.

#### First Term

Course	Hours
NUR 112 Fundamental Concepts of Nursing .....	7
MTH 100 Intermediate College Algebra .....	3
BIO 201 Anatomy and Physiology I .....	4

**Total ..... 14**

#### Second Term

Course	Hours
NUR 113 Nursing Concepts I .....	8
ENG 101 English Composition I .....	3
PSY 210 Human Growth and Development .....	3
BIO 202 Anatomy and Physiology II .....	4

**Total ..... 18**

#### Third Term

Course	Hours
NUR 114 Nursing Concepts II .....	8
NUR 115 Evidence Based Clinical Reasoning.....	2
SPH 106 Speech .....	3
or 107	
<b>Total .....</b>	<b>13</b>
<b>BIO 103 and PSY 200 are waived as pre-requisites for students entering PN or RN programs.</b>	
<b>TOTAL CREDIT HOURS .....</b>	<b>45</b>

### NURSING ASSISTANT

The Nursing Assistant course (NAS100) will prepare a person to work under the supervision of a registered nurse (RN) or Licensed Practical Nurse (LPN) and give direct patient care in a variety of health-care settings. Successful completion of the course allows eligibility to write the State Nursing Assistant Certification exam through PROMETRIC. The Nursing Assistant Curriculum at Calhoun Community College is approved by the Alabama Department of Public Health.

#### Admission Requirements:

- Unconditional admission to the College.
- At least 17 years of age.

#### Enrollment Requirements/Background Checks/Drug Testing

See information provided under Nursing, General Information.

#### Program Costs

Students will be required to provide his/her own transportation to assigned clinical facility

Additional expenses include:

Textbooks .....	\$100.00
Uniforms and Supplies .....	VARIES
Malpractice Insurance (per year) .....	\$10.00
Drug Testing/Background Check.....	\$71.50
CPR class (EMS 100) .....	\$144.00
Certification Examination through PROMETRIC .....	\$100.00
Health exams, PPD and Immunizations.....	VARIES
Tuition .....	(See Semester Class Schedule)

### CAREER OPPORTUNITIES

Nursing Assistants may be employed by hospitals, nursing homes, long-term health care facilities, and other community health care

## PHYSICAL THERAPIST ASSISTANT

A Physical Therapist Assistant (PTA) is an educated, skilled, licensed health care team member who works under the direction and supervision of a physical therapist. The PTA helps people of all ages with health-related conditions that limit their ability to move and perform functional activities in their daily lives. Job activities may include helping a person to exercise, teaching the use of assistive devices or providing treatments such as electrical stimulation, traction, and ultrasound. PTAs work in a variety of settings including hospitals, outpatient clinics, home health, nursing homes, schools, and sports facilities.

The PTA program seeks to provide students with the knowledge to demonstrate

technical competence in entry level physical therapy skills, make sound clinical decisions, and provide safe, effective, compassionate, and professional physical therapy care to a diverse patient population.

The program is designed to be completed in 5 terms. PTA classes are only offered during the day, Monday-Friday, on the Decatur campus. The coursework is progressive, requiring a grade of 75% or higher in each PTA course and a "C" or higher in the required general education courses. Students must participate in a total of 18 weeks of full-time (40 hours/week) clinical experiences.

## PHYSICAL THERAPIST ASSISTANT Associate of Applied Science

**Program Code: AAS.PTA**

**CIP Code: 51.0806**

Dr. Heather MacKrell, Program Director  
hlm@calhoun.edu, 256-306-2805

Additional information and applications are available on the PTA Program Website found under "Programs of Study" and "Division of Health" at [www.calhoun.edu](http://www.calhoun.edu)

#### GENERAL EDUCATION REQUIREMENTS

ORI 110	Freshman Seminar.....	1
ENG 101	English Composition I .....	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking .....	3
CIS 146	Microcomputer Applications .....	3
MTH 100	Intermediate College Algebra .....	3
PSY 200	General Psychology .....	3
PSY 210	Human Growth and Development .....	3
BIO 201	Human Anatomy and Physiology I .....	4
BIO 202	Human Anatomy and Physiology II .....	4
Elective (Choose from Humanities, Religion, Foreign Language, Fine Arts).....		3
EMS 106	Medical Terminology.....	2

**Total .....**32

#### PTA Course Requirements

PTA 200	Physical Therapy Issues & Trends.....	2
PTA 220	Functional Anatomy & Kinesiology .....	3
PTA 221	Kinesiology Lab.....	1
PTA 250	Therapeutic Procedures I.....	4
PTA 202	PTA Communication Skills.....	2
PTA 230	Neuroscience.....	2
PTA 232	Orthopedics for the PTA .....	2
PTA 240	Physical Disabilities I.....	2
PTA 251	Therapeutic Procedures II.....	4
PTA 252	Physical Agents & Therapeutic Modalities.....	2
PTA 290	Therapeutic Exercise .....	1
PTA 266	Clinical Fieldwork I.....	2
PTA 231	Rehabilitation Techniques.....	2
PTA 241	Physical Disabilities II.....	2
PTA 260	Clinical Education I.....	1
PTA 267	Clinical Fieldwork II .....	2
PTA 261	Clinical Education II.....	1

## PROGRAMS OF STUDY

PTA 263	Clinical Affiliation I .....	3
PTA 201	PTA Seminar .....	2
<b>Total</b> .....		<b>40</b>

### Total Credits .....72

PTA students are required to comply with legal, moral, and legislative standards in accordance with **Rule No. 700-X-2-02 of the Alabama State Board of Physical Therapy Administrative Code**, which states the following:

*The Board shall refuse licensure to any applicant who is of other than good moral character. The determination as to what constitutes other than good moral character and reputation shall be solely within the judgment of the Board. Each applicant shall be required to submit references from two professional sources addressing, but not being limited to, moral character. These references shall be submitted on forms prescribed by the Board and shall be mailed to the executive director. Grounds for refusal may include, but are not limited to: (1) history of using drugs or intoxicating liquors to an extent that affects professional competency, (2) conviction of a felony or crime involving moral turpitude, (3) attempt to obtain or obtaining a license by fraud or deception, (4) guilt of conduct unbecoming a person registered as a physical therapist or licensed as a physical therapist assistant or of conduct detrimental to the best interest of the public, and (5) conviction of violating any state or federal narcotic law.*

### ACCREDITATION STATUS

The Physical Therapist Assistant Program at Calhoun Community College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: (703) 706-3245; email: accreditation@apta.org; website: www.capteonline.org.

### Admission to the Program

A new class of PTA students is admitted once a year in the fall semester. Applicants must minimally

1. Meet all admission requirements of Calhoun Community College.
2. Submit a current year PTA Program Application.
3. Have completed 24 hours of physical therapy observation experience which is documented and signed by licensed PT personnel.
4. Submit a 2 - 3 page typed essay of this experience.
5. Submit two (2) letters of professional recommendation in the requested format.
6. Submit an ACT reading score or COMPASS reading placement test from the past three (3) years.
7. Submit an unofficial Calhoun Community College transcript documenting all previously completed applicable course work taken at Calhoun or accepted in transfer by the Calhoun Community College Office of Admissions and Records.

Applications are accepted January through March. It is the responsibility of the applicant to ensure the application is complete. All requested information must be included for the application to be complete. Missing documentation will result in the application not being considered for admission. Each time an applicant applies to the program an application packet must be completed in its entirety. Copies of all items submitted should be retained as information will not be released from previous application packets.

### Selection Process

Meeting the minimum requirements does not guarantee acceptance. Class size is limited and there is a selective application process. After meeting the minimum requirements, applicants are rank-ordered using a 100 point scale. An application and more information on the selection process are available on the PTA website.

**After** students are enrolled in the PTA program and prior to first clinical assignment they will be required to:

1. Provide evidence of current cardiopulmonary resuscitation course completion at the healthcare provider level.
2. Submit a current Calhoun Community College Allied Health Examination Form completed by a licensed physician or nurse practitioner.
3. Provide medical verification of a two-step Mantoux skin test (chest x-ray if positive) indicating he/she is free of tuberculosis.
4. Provide documentation of immunity to mumps and rubella.
5. Provide verification of immunization for hepatitis B and/or show positive antibodies and/or sign a waiver.
6. Purchase professional liability insurance through the college prior to the first clinical rotation.
7. Arrange reliable transportation to and from clinical facilities assigned by the program.
8. Abide by the policies of the College and PTA Program Student Policy Manual.
9. Submit to drug and alcohol testing and background checks.

### Drug Testing / Background Checks

As stipulated by the health facilities with which the PTA program contracts for clinical education, each student enrolled in the program will undergo drug and alcohol testing and a background check as a precondition to beginning clinical experiences. The fees are the responsibility of the student. Policies for the screening process are provided to the student upon enrollment in the program.

### Essential Functions

Essential Functions can be found on the program application. The purpose of the PTA Program Essential Functions is to outline the cognitive, affective and psychomotor skills deemed the minimal necessary for admission,

progression, and graduation and for the provision of safe and effective patient care. If a student cannot demonstrate the skills and abilities delineated in the essential functions, it is the responsibility of the student to request an appropriate accommodation through the Office of Services to Special Student Populations.

### Policies/Curriculum

Information contained in the Catalog and the policies and curriculum for the PTA program are subject to change at any time. Written notice will be given to all students enrolled in the program prior to implementation of change. Please see website for most current info.

### Approximate Program Costs

In-state tuition + fees (72 hours) = \$9432  
+ \$2,500 (additional expenses) = \$11,932  
Textbooks = \$1800  
Background check & drug screening = \$100  
CPR certification = \$50-100  
Physical exam, TB testing, required blood work & immunizations = \$250  
Uniforms = \$150  
Alabama Licensure Exam Fees = \$537

## SECURITY

The Certificate in Security prepares students to enter many of the varied fields of private security, or may be used to improve the competencies of professionals already employed in the field.

### SECURITY Short Term Certificate

**This program is subject to the Credit to Clock Hour conversion as defined by Title IV and may not be fully funded with Title IV funds (Pell Grant, SEOG and Direct Student Loan)**

**Program Code: STC.SECURITY ..... CIP Code: 43.0107**

### MAJOR COURSE REQUIREMENTS

ORI 110	Freshman Seminar .....	1
ENG 101	English Composition I .....	3
BUS 215	Business Communications .....	3
BUS 263	Legal & Social Environ. of Business .....	3
CIS 211	Intro to Information Assurance .....	3
CRJ 171	Security Risk Management .....	3

### PLUS CHOOSE ONE (1) AREA OF FOCUS:

#### General Security Management - Choose any three (3) electives:

CRJ 166	Private and Retail Security .....	3
CRJ 167	Industrial Security.....	3
CRJ 169	Security Management .....	3
CRJ 170	Introduction to Physical Security .....	3

#### Information Assurance - Choose any three (3) electives:

CIS 214	Security Analyst.....	3
CIS 245	Cyber-terrorism.....	3
CIS 246	Ethical Hacking .....	3
CIS 282	Computer Forensics.....	3
CRJ 167	Industrial Security.....	3

**TOTAL CREDITS .....25**

## SURGICAL TECHNOLOGY

This program is designed to prepare graduates for employment and careers in this rapidly growing technical field. The Surgical Technology program is directed towards men and women who have the capability and interest to become surgical technologists. The program provides the student with knowledge and skills to function as an integral part of a team providing surgical care to patients in a variety of settings. Under medical supervision, the surgical technologist will assist with safe and effective delivery of invasive surgical procedures.

### SURGICAL TECHNOLOGY Associate of Applied Science and Certificate

#### Program Code Certificate:

**CT.SURGICAL**

**CIP Code: 51.0909**

#### Program Code Associate of Applied Science:

**AAS.SUR**

**CIP Code: 51.0909**

The educational program in Surgical Technology is designed to develop the student's cognitive, affective and psychomotor abilities and to assist the surgical technologist in acquiring the knowledge and critical judgment essential for decision making as well as skill oriented delivery of surgical techniques. The goal of this program is to prepare competent entry level surgical technologists in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains.

The objectives of the program, which the graduates must successfully demonstrate, flow from the College mission statement, the program philosophy, and the program goal.

Upon successful completion of the Surgical Technology program, the student will demonstrate the following objectives:

1. Comprehension, application and evaluation of clinical information relevant to his or her role as a surgical technologist. (Cognitive Domain)
2. Technical proficiency in all skills necessary to fulfill the role as a surgical technologist. (Psychomotor Domain)
3. Personal behaviors (Communications) consistent with professional and employer expectations for the surgical technologist. (Affective Domain)

Further, graduates of the Calhoun Community College Surgical Technology Program are expected to meet the following student learning outcomes:

1. Participate in basic cases in a variety of surgical specialties.

## PROGRAMS OF STUDY

- Determine an appropriate setup for core procedures.
- Demonstrate entry level knowledge of surgical anatomy and physiology.
- Employ principles of aseptic technique.
- Anticipate the needs of the surgeon and patient during the surgical procedure.
- Demonstrate professional behaviors with surgeon and other surgical team members.
- Manage time effectively as a member of the surgical team.
- Demonstrate preparedness for successfully completing the CST exam.

### SURGICAL TECHNOLOGY CERTIFICATE = 44 SEMESTER HOURS PROGRAM OUTLINE

#### SEMESTER 1

ENG 101	English Composition I .....	3 credits
EMS 106	Medical Terminology.....	2 credits
Math Elective (MTH 100, 110 or 112) .....	<u>3 credits</u>	
		8 credits

#### SEMESTER 2

SUR 100	Principles of Surgical Technology .....	5 credits
SUR 102	Applied Surgical Techniques .....	4 credits
SUR 107	Surgical Anatomy and Pathophysiology .....	3 credits
SUR 108	Pharmacology for the Surgical Technologist .....	<u>2 credits</u>
		14 credits

#### SEMESTER 3

SUR 103	Surgical Procedures .....	5 credits
SUR 104	Surgical Practicum I .....	4 credits
SPH 107	Public Speaking (or SPH 106 or ENG 102).....	<u>3 credits</u>
		12 credits

#### SEMESTER 4

SUR 105	Surgical Practicum II .....	5 credits
SUR 106	Role Transition in Surgical Technology .....	1 credits
SUR 204	Surgical Practicum III .....	<u>4 credits</u>
		10 credits

**TOTAL CREDITS ..... 44 credits**

### SURGICAL TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE = 62 SEMESTER HOURS PROGRAM OUTLINE

#### SEMESTER 1

ORI 110	Freshman Seminar .....	1 credit
ENG 101	English Composition I .....	3 credits
EMS 106	Medical Terminology.....	2 credits
BIO 201	Anatomy & Physiology I .....	4 credits
Math Elective (MTH 100, 110 or 112) .....	<u>3 credits</u>	
		13 credits

#### SEMESTER 2

BIO 202	Anatomy & Physiology II .....	4 credits
PSY 200	Intro. to Psychology .....	3 credits
SPH 107	Public Speaking (or SPH 106 or ENG 102).....	3 credits
Humanities/Fine Arts Elective .....	<u>3 credits</u>	
		13 credits

#### SEMESTER 3

SUR 100	Principles of Surgical Technology .....	5 credits
SUR 102	Applied Surgical Technology .....	4 credits
SUR 107	Surgical Anatomy and Pathophysiology.....	3 credits
SUR 108	Pharmacology for the Surgical Tech. ....	<u>2 credits</u>
		14 credits

#### SEMESTER 4

SUR 103	Surgical Procedures .....	5 credits
SUR 104	Surgical Practicum I .....	4 credits
PSY 210	Human Growth and Development .....	<u>3 credits</u>
		12 credits

#### SEMESTER 5

SUR 105	Surgical Practicum II .....	5 credits
SUR 106	Role Transition for the Surgical Tech.....	1 credit
SUR 204	Surgical Practicum III .....	<u>4 credits</u>
		10 credits

**TOTAL CREDITS ..... 62 credits**

#### ACCREDITATION STATUS

The Calhoun Community College surgical technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 1361 Park Street, Clearwater, Florida 33756, [www.caahep.org](http://www.caahep.org), (727) 210-2350.

Upon the recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA), 6 West Dry Creek Circle, Suite 110, Littleton, Colorado 80120, [www.arcstsa.org](http://www.arcstsa.org), (303) 694-9262.

Graduates of CAAHEP accredited programs are eligible to sit for the National Certified Surgical Technologist exam. The CST exam is managed by the National Board of Surgical Technology and Surgical Assisting (NBSTSA).

#### Admission to the Program

Prior to entering SUR courses (Semester 2 of certificate and semester 3 of AAS degree curriculum), a student must apply for and be accepted for admission to the Surgical Technology Program. A new class of surgical technology students is admitted once a year in the fall semester.

Applicants to the Surgical Technology program must minimally:

1. Meet all admission requirements of Calhoun Community College
2. Possess a high school diploma or equivalent
3. Have completed English Composition I (ENG 101) with a grade of C or >
4. Have completed Medical Terminology (EMS 106) with a grade of C or >
5. Have completed one of the following mathematics courses with a grade of C or >
  - Intermediate College Algebra (MTH 100)
  - Finite Mathematics (MTH 110)
  - Precalculus Algebra (MTH 112)
6. Submit a Surgical Technology application packet which includes:
  - a. A completed **Personal Information Sheet**
  - b. An unofficial CCC transcript documenting all completed general education coursework taken at Calhoun or accepted in transfer
  - c. A completed **General Education Points Worksheet**
  - d. A **ST Program Information Video Q & A Sheet** completed after viewing the online video posted on the CCC ST Program webpage.
  - e. A 1-2 page typed essay which discusses why you are interested in a career as a Surgical Technologist.
  - f. Signed and dated **Statements of Understanding**

Applications for the Surgical Technology program can be found on the program website and is typically available during spring semester for fall semester enrollment. The application deadline is typically the third week of May (see application packet for specific deadline). Persons who meet the minimal admission requirements will be invited to take a manual dexterity test in early June as a component of the application scoring system. The Surgical Technology Admissions Committee will meet in late June. An invitation to enroll in the ST program will be sent to the 28 students with the highest application score.

### Selection Process

Meeting minimal admission requirements does not guarantee acceptance. The number of students enrolled in the Surgical Technology program must be limited and therefore the application process is competitive. All applications are evaluated by the Surgical Technology Admissions Committee and assigned a score based solely on the defined point system. An application and more information on the selection process are available on the Surgical Technology program website.

### Upon enrollment in the program

1. Submit to the Allied Health Department a satisfactory Student Health Form completed by a licensed physician or nurse practitioner (form will be furnished when student is accepted for admission). Health form is

due by **first day of class**. Form is valid for one year. Evidence of good health is required for placement in the program.

2. Provide evidence of vaccination for Hepatitis B and/or positive antibodies or sign a waiver.
3. Provide documentation of two-step Mantoux skin test (PPD), or chest x-ray, if positive, indicating he/she is free of tuberculosis.
4. Provide documentation of Immunity for Rubeola (Measles), Mumps, Rubella (German Measles) through one of the following:
  - a. History of having had the disease
  - b. Titer that shows immunity
  - c. Immunization record
5. Provide documentation of current Influenza vaccination or otherwise meet requirements of clinical affiliates for an exception.
6. Provide evidence of current certification in BCLS/Healthcare Provider cardiopulmonary resuscitation (CPR) prior to clinical experience. Students are responsible for obtaining and maintaining current CPR Certification while enrolled in the program.
7. Purchase professional liability insurance through the College by the **first day of class** (forms available in the Allied Health Department).
8. Meet requirements for criminal background check and drug screen per Allied Health Department and/or clinical affiliate policies.

### PROGRESSION IN THE PROGRAM

Students must fulfill all course requirements as stated in each SUR syllabus.

Achieve a minimum grade of "C" (75%) in each SUR course.

First scrub a minimum of 140.

Successfully complete all lab, practical, and clinical components of each SUR course.

Meet Surgical Technology program Essential Competencies of Candidates for Admission, Continuance & Graduation.

Successfully complete NBSTSA - Certified Surgical Technologist Practice Exam with a score of 65% or better.

Complete the Certified Surgical Technologist Exam.

Specific questions concerning the program can be answered by calling the Surgical Technology program (Monday-Thursday at 256/306-2786/306-2950).

### SURGICAL TECHNOLOGY PROGRAM ESTIMATED COSTS

Tuition: See college catalog section covering financial information.

Malpractice Insurance (per year) ..... \$10.00

Drug Screen/Background Check .....	\$71.50
Graduation Fee.....	\$25.00
Certification Exam.....	\$265.00
Textbooks.....	\$600.00
Health Exams, PPD, Immunizations.....	Cost Varies
CPR Course .....	Cost Varies
Uniforms .....	\$200.00
NBSTSA Practice Exam.....	\$50.00

### READMISSION POLICY

A student may be readmitted to a SUR course ONE TIME following a failure of or withdrawal from an SUR course. Students who are currently returning following a failure are considered to be using their second and final opportunity to complete the Surgical Technology program. Requests for readmission will be considered competitively with new applications and is not guaranteed.

#### Following withdrawal:

If a student withdraws from a SUR course or is temporarily ineligible to progress (see progression requirements), readmission to the SUR program requires

1. written notification at least three months in advance to the SUR Program Director that the student desires to reenter the SUR program.
2. a minimum cumulative grade point average of 2.5.
3. no longer than twelve (12) months may elapse between completion of a SUR course and enrollment in the subsequent course for successful completion of a series of advanced courses.
4. Successful completion (with a passing score of 75% or better) of all final and practical exams completed by students currently enrolled in the program.

**All students who withdraw from or are temporarily ineligible to progress through a program of study in the Allied Health Department will be readmitted under the College Catalog, and program policies and procedures, in effect the year of readmission.**



# COURSE DESCRIPTIONS



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## CREDIT HOUR EQUIVALENCIES

**CREDIT HOUR EQUIVALENCIES** — The ratio of weekly contact hours to credit hours varies with the type of instruction being used. The College will recognize the following methods or types of instruction:

**THEORY, (T)** One hour of theory instruction under the supervision of an instructor plus an average of two hours of out-of-class study per week. 1:1

**EXPERIMENTAL LABORATORY (E)** Two hours of experimental laboratory under the supervision of an instructor plus an average of one hour of out-of-class assignments per week. 2:1

**PED ACTIVITY, (A)** Two hours of physical education class activity/practice under the supervision of an instructor with out-of-class assignments per week. 2:1

**MANIPULATIVE LABORATORY, (M)** Three hours of practice/manipulative laboratory under the supervision of an instructor with no out-of-class assignments per week. 3:1

**SKILLS LABORATORY/CLINICAL PRACTICE, (S or C)**  
- Three hours of skills laboratory or clinical practice under the supervision of an instructor. 3:1

*Skills Laboratory/Clinical Practice* is the term for skills laboratory (S) and clinical experiences (C) which are under the direct supervision of faculty. There may be out-of-class assignments per week, but they are not required. For example, skills laboratory and clinical experiences may have out-of-class assignments whereas a computer laboratory may not require an out-of-class assignment.

**PRECEPTORSHIP, (P3 or P5)** Three or five hours of clinical experience per week under the supervision of a health care professional who is currently licensed, has expertise in the selected clinical area, and serves as a facilitator of learning. 3:1 or 5:1.

*Preceptorship* is the term used for clinical experiences which are supervised by currently licensed health care professionals who have expertise in a selected clinical area. Preceptors are employees of a clinical agency who are approved by faculty of the program and the administration of the clinical agency. Objectives for the preceptorship are specified. A designated faculty member is readily available (by telecommunication devices, for example)

to the preceptor and student during the *preceptorship* experiences. Students enrolled in fields of study for which programmatic accreditation and/or licensing bodies require an 8:1 preceptorship ratio must comply with discipline-specific time-to-credit criteria.

As the contact hours for courses using preceptorship clinical experiences are entered, specify in the column for "clinical" the actual number of contact hours per week followed by a bold (P3) or (P5).

**INTERNSHIP (I)** Five hours of experimental internship per week under the control and supervision of the employer on the job with coordinated employer/college representative planning. 5:1

*Internship* is the term used to include cooperative education, practicums, and sponsored work instruction. Internship involves the development of job skills by providing the student with a structured employment situation that is directly related to, and coordinated with, the educational program. Student activity in "internship" is planned and coordinated jointly by an institutional representative and the employer, with the employer having the responsibility of control and supervision of the student on the job. Students enrolled in fields of study for which programmatic accreditation and/or licensing bodies require a 10:1 internship ratio, must comply with field-specific time-to credit criteria.

**The number of clock hours of each type of instruction is stated in each course description. Types of instruction may be mixed within one course. In that event, the number of contact hours for each type of instruction is spelled out in the following order.: Theory (T), Experimental Laboratory (E), PED Activity (A), Manipulative Laboratory (M), Skills Laboratory/Clinical Practice (S or C), Preceptorship (P3 or P5), and internship (I). On the right side of the column, the number of credit hours for the entire course is given.**

## ACCOUNTING TECHNOLOGY (ACT)

### ACT 249 PAYROLL ACCOUNTING (3T) 3 credits

**PREREQUISITE:** BUS 242 with a grade of "C" or higher

This course focuses on federal, state and local laws affecting payroll. Emphasis is on payroll accounting procedures and practices, and on payroll tax reports. Upon completion of this course, the student will be able to apply knowledge of federal, state and local laws affecting payroll.

### ACT 254 BUSINESS INCOME TAX (3T) 3 credits

**PREREQUISITE:** BUS 253 with a grade of "C" or higher

This course focuses on federal income tax laws concerning business entities. Emphasis is on income tax investment of partnerships, corporation, LLPs and LLCs. Upon completion of this course, the student will be able to apply federal income tax laws concerning business entities.

## ADVANCED MANUFACTURING (ADM)

### ADM 101 PRECISION MEASUREMENT (2T, 3M) 3 credits

This course covers the use of precision measuring instruments and an introduction to basic geometric dimensioning and tolerancing (GD&T) concepts. Emphasis is placed on the inspection of machine parts and use of a wide variety of measuring instruments. Upon completion students should be able to demonstrate correct use of measuring instruments. This supports CIP code 15.0613. This is a CORE course and is aligned with NIMS certification standards.

### ADM 104 INTRODUCTION TO THERMAL/ELECTRICAL PRINCIPLES (1T, 4E) 3 credits

This course emphasizes the fundamental principles for air conditioning and refrigeration. Instruction is provided in the theory and principles of refrigeration and heat transfer, HVAC/R system components, common, and specialty tools for HVAC/R, and application of the concepts of basic compression refrigeration. In addition, this course covers electrical/electronic fundamentals and principles. Emphasis is placed on electrical theory and science, semiconductor devices, motors, transformers, digital concepts, programmable logic controllers, and circuit analysis of resistive, capacitive, resonant, and tuned circuits. Upon completion, students will have knowledge of basic electricity and electronics and be able to identify system components and understand their functions, identify and use common and specialty HVAC/R tools, and maintain components of a basic compression refrigeration system. This supports CIP code 15.0613. This is a CORE course.

### ADM 105 FLUID SYSTEMS (1T, 4E) 3 credits

This course includes the fundamental concepts and theories for the safe operation of hydraulic and pneumatic systems used with industrial production equipment. Topics include the physical concepts, theories, laws, air flow characteristics, actuators, valves, accumulators, symbols, circuitry, filters, servicing safety, and preventive maintenance and the

application of these concepts to perform work. Upon completion, students should be able to service and perform preventive maintenance functions on hydraulic and pneumatic systems. This is a CORE course. This course supports CIP code 15.0613.

### ADM 106 QUALITY CONTROL CONCEPTS (2T, 3M) 3 credits

This course covers quality assurance principles including the history of the quality movement, group problem solving, data collection, control charts, and statistical methods such as statistical process control (SPC), process capability studies, and the concepts associated with lean manufacturing. This supports CIP code 15.0613. This is a CORE course.

### ADM 107 CAD CONCEPTS (1T, 4E) 3 credits

This course provides an introduction of Computer Aided Drafting (CAD) techniques and terminology. Concepts to include CAD Software and skills necessary to perform the basic computer aided drafting functions. Related lab projects are developed from CAD to reinforced knowledge of various shop drawing concepts, software commands.

### ADM 108 INTRODUCTION TO 3D MODELING (1T, 4E) 3 credits

**It is recommended that students take DDT 111 prior to enrolling in this course. DDT 111 can also be taken in the same semester.**

**It is recommended that students have basic computer skills before taking this class.**

This course provides an introduction to basic 3Dimensional (3D) modeling functions and techniques. The parametric concept will be introduced. "Hands-on" class structure utilizes various 3D software applications. Topics include terminology, hardware, basic 3D modeling involving sketching and 3D feature creations, feature application and operating system functions. Students will be able to generate basic 3D parts and associated working drawings in soft and hard copy format.

### ADM 111 MANUFACTURING SAFETY PRACTICES (2T,3M) 1 credit

This course is an introduction to general issues, concepts, procedures, hazards, and safety standards found in an industrial environment. This safety course is to make technicians aware of safety issues associated with their changing work environment and attempt to eliminate industrial accidents. This course will offer credentialing for NCCER and OSHA 10 hour.

### ADM 112 ORIENTATION TO ADDITIVE MANUFACTURING (1T) 1 credit

Introduction to basics of manufacturing, including personal protective equipment (PPE), safety practices, general lab procedures and the proper use of equipment to perform basic manufacturing processes such as drilling and cutting on commonly used materials, including metals and composites. Topics include Additive Manufacturing fundamentals,

history, and terminology. Additive Manufacturing systems types, advantages vs. disadvantages of various Additive Manufacturing technologies will be discussed.

**ADM 114 DESIGN INNOVATION (1T, 4E) 3 credits**  
**PREREQUISITE: ADM 107 OR DDT 109 OR ADM 108 OR DDT 144 OR EGR 125**

This course introduces students to the concepts of architectural and engineering drafter as a profession, basic engineering and architectural skills, and the design processes. The course includes components to develop teaming and oral and written communication skills. The course also provides an introduction to various computer based tools used by architects and engineers (e.g. spreadsheet, word processing, presentation software, and the Internet).

**ADM 150 TECHNICAL CO-OPERATIVE EDUCATION -155 (1T) 1 credit (each)**

Students work on a part-time basis in a job directly related to applied technologies. The employer and supervising instructor evaluate students' progress. Upon course completion, students will be able to apply skills and knowledge in an employment setting.

**ADM 157 MATERIAL PROPERTIES (1T, 4E) 3 credits**  
**PREREQUISITE: ADM 112**

This class identifies the major categories of materials used in manufacturing and compares their general properties to aid in proper selection of material for product functions. Students will perform an analysis of the behavior and characteristics the materials used in manufacturing including polymers, metals, ceramics and composites: their structure, and physical and mechanical properties. Additionally students will perform heat treatment of ferrous and nonferrous metals; and test for hardness, tensile and strength. Technical writing will be introduced. Upon completion of this class students will be able to understand and select proper materials for Additive Manufacturing. (Offered Fall Semester)

**ADM 161 3D SPECIALIZED SOFTWARE TECHNIQUES- (2T, 3M) 3 credits**  
**PREREQUISITE: ADM 108, or ADM 109, or DDT 144, or EGR 125**

In this class, students will learn techniques to design for 3D printing using a 3D modeling program. Students will also be able to manipulate STL files after receiving instruction on a software program such as "Materialise".

**ADM 162 ADDITIVE MANUFACTURING PROCESSES - POLYMERS (1T, 4E) 3 credits**  
**PREREQUISITE: ADM 112 and ADM 108 OR DDT 109 OR DDT 144 OR EGR 125**

This course focuses on the basic principles and methodology types of polymers and processes created with the Additive

Manufacturing (AM) process. Comparison of selecting the best type of manufacturing for product will be discussed. Student will learn proper instruction on safety operations, set-up and routine maintenance and production of the AM Systems. Students will learn various type of polymers, AM Systems; Fused Deposition Manufacturing (FDM), Polyjet, Stereolithography (SLA). Student will learn the design software used for each AM system. Upon completion, students should be able to discuss and understand the significance of polymer materials properties and structure, describe the different types of polymers available for the AM process and explain the benefits of basic polymer rapid prototyping. They should be able to demonstrate how to take a "part" from start to finish on the AM polymer system and be able to select the best process for the type of product being produced. NOTE: AM students will also be required to take AM production techniques before or with this class. (Offered Fall Semester)

**ADM 164 ADDITIVE MANUFACTURING PROCESSES - POWDERS (1T, 4E) 3 credits**  
**PREREQUISITE: ADM 112 and ADM 107 OR DDT 109 OR ADM 108 OR DDT 144 OR EGR 125**

This course focuses on the basic principles and methodology types of powders and processes created with the Additive Manufacturing (AM) process. Metal and plastic based powders will be discussed. Students will compare material properties, and various types of powders to determine properties and strengths in material. Students will learn proper instruction on safety operations, set-up and routine maintenance and production of the AM systems. Students will learn powder based AM with the use of the Direct Metal Laser Sintering (DMLS) system and will learn the design software used for the metal powder DSLM AM system. Upon completion, students should be able to discuss and understand the significance of metal materials characteristics, properties and structure. They will be able to describe the different types of metal powders including, but not limited to aluminum, stainless steel, cobalt, titanium, and nickel and explain what the benefits of metal powder rapid prototyping. They should be able to demonstrate how to take a "part" from start to finish on the AM DSML System. NOTE: AM students will also be required to take AM production techniques before or with this class. (Offered Spring Semester)

**ADM 200 INDUSTRIAL ROBOTICS SAFETY (3T) 3 credits**

This course covers safety aspects associated with industrial robots and the procedures to follow when working around them. The topics are approached from maintenance/repair and engineering perspectives. Students have the opportunity to learn common types of accidents associated with robot work and the sources of these accidents. North American and European safety standards including new ANSI/RIA safety standards for Industrial Robots (15.06), risk assessment methodologies, risk reduction methods and the application of various safety products are also covered.

### ADM 208 INTERMEDIATE 3D MODELING (1T, 4E) 3 credits

**PREREQUISITES:** DDT 124 & ADM 108

In this course students will receive instruction on intermediate 3D modeling concepts, such as sheet metal modeling, intermediate assemblies, 3D sketching and weldments. Students will explore an introduction to prototyping and design concepts in a 3D environment. 3D software will be utilized to produce properly detailed construction drawings, using multi-views, section views, and auxiliary views. Proper, industry standard dimensioning with basic tolerances will be discussed and applied to parts. Emphasis will be placed on the theory as well as the mechanics of concepts using 3D and 2D applications. Upon completion, students will produce 3D models in a CAD environment, simple prototype models and working drawings based on proper industry standards. (Fall Semester Only)

### ADM 209 METAL MATERIALS POST PROCESSING (1T, 4E) 3 credits

**PREREQUISITE:** ADM 164

This course is intended as an intensive experience in processing techniques used for post processing metals. Instruction in the safe use of all tools and equipment will be emphasized. Students will experiment with various techniques in the post processing of metal parts. Techniques will include grinding, EDM cutting, drilling, shot peening, and heat treatment. Students will record testing and outcome of post processing in a technical lab report. Students will use LEAN manufacturing to observant proper lab procedures. Upon completion of this class students will be able to properly and safely perform proper PPE post processing techniques on additive manufactures metal parts and be able to write a technical report and describe LEAN manufacturing applied to an additive manufacturing lab. (Offered Spring Semester)

### ADM 232 APPLIED INDUSTRIAL ROBOTICS (ABB) (1T, 6M) 3 credits

**PREREQUISITE:** Permission of instructor

This course covers the basic techniques used to write, execute, test, and modify a basic robotic program for an application-specific operation. Topics covered are related safety, robotic systems, computer terminal programming, teach pendant programming, and input/output interfacing. Upon completion, a student should be able to write, test, and evaluate a robotic program.

### ADM 233 APPLIED INDUSTRIAL ROBOTICS (CLOOS) (1T, 6M) 3 credits

**PREREQUISITE:** Permission of instructor

This course covers the basic techniques used to write, execute, test, and modify a basic robotic program for an application-specific operation. Topics covered are related safety, robotic systems, computer terminal programming, teach pendant programming, and input/output interfacing. Upon completion, a student should be able to write, test, and evaluate a robotic program.

### ADM 234 APPLIED INDUSTRIAL ROBOTICS (FANUC) (1T, 6M) 3 credits

**PREREQUISITE:** Permission of instructor

This course covers the basic techniques used to write, execute, test, and modify a basic robotic program for an application-specific operation. Topics covered are related safety, robotic systems, computer terminal programming, teach pendant programming, and input/output interfacing. Upon completion, a student should be able to write, test, and evaluate a robotic program.

### ADM 235 APPLIED INDUSTRIAL ROBOTICS (KAWASAKI) (1T, 6M) 3 credits

**PREREQUISITE:** Permission of instructor

This course covers the basic techniques used to write, execute, test, and modify a basic robotic program for an application-specific operation. Topics covered are related safety, robotic systems, computer terminal programming, teach pendant programming, and input/output interfacing. Upon completion, a student should be able to write, test, and evaluate a robotic program.

### ADM 236 APPLIED INDUSTRIAL ROBOTICS (KUKA) (1T, 6M) 3 credits

**PREREQUISITE:** Permission of instructor

This course covers the basic techniques used to write, execute, test, and modify a basic robotic program for an application-specific operation. Topics covered are related safety, robotic systems, computer terminal programming, teach pendant programming, and input/output interfacing. Upon completion, a student should be able to write, test, and evaluate a robotic program.

### ADM 237 APPLIED INDUSTRIAL ROBOTICS (MOTOMAN) (1T, 6M) 3 credits

**PREREQUISITE:** Permission of instructor

This course covers the basic techniques used to write, execute, test, and modify a basic robotic program for an application-specific operation. Topics covered are related safety, robotic systems, computer terminal programming, teach pendant programming, and input/output interfacing. Upon completion, a student should be able to write, test, and evaluate a robotic program.

### ADM 238 APPLIED INDUSTRIAL ROBOTICS (MITSUBISHI) (1T, 6M) 3 credits

**PREREQUISITE:** Permission of instructor

This course covers the basic techniques used to write, execute, test, and modify a basic robotic program for an application-specific operation. Topics covered are related safety, robotic systems, computer terminal programming, teach pendant programming, and input/output interfacing. Upon completion, a student should be able to write, test, and evaluate a robotic program.

### ADM 239 APPLIED INDUSTRIAL ROBOTICS (OTC) (1T, 6M) 3 credits

**PREREQUISITE:** Permission of instructor

This course covers the basic techniques used to write,

execute, test, and modify a basic robotic program for an application-specific operation. Topics covered are related safety, robotic systems, computer terminal programming, teach pendant programming, and input/output interfacing. Upon completion, a student should be able to write, test, and evaluate a robotic program.

**ADM 241 ADDITIVE MANUFACTURING TEST PREP (1T) 1 credit**

**PREREQUISITE:** Permission of instructor

During this test prep class students will review concepts of Additive Manufacturing (AM) taught in this course of study. We will review instructions on Additive Manufacturing principles and will be supported by observation of Additive Manufacturing applications in action. Student will participate in practice exercises that incorporate concepts and applications from the lecture and lab of their previous coursework. The SME Additive Manufacturing Certificate serves as verifiable proof of foundational knowledge by successfully completing an exam. NOTE: This course is usually taken during the last 2 semesters of the program of study. (Offered Summer Semester)

**ADM 250 INTRODUCTION TO FLEXIBLE MANUFACTURING CELLS (2T, 4E) 4 credits**

**PREREQUISITES:** ELT 231 and ELT 232 or Permission of instructor

This course covers techniques involved when grouping related machines for the purpose of completing a series of manufacturing processes in a flexible manufacturing cell. The student will be involved with the computerized integration of programmable control systems such as robotics, machine tools, and other peripheral equipment to emulate real-world manufacturing concepts employed in flexible manufacturing cells.

**ADM 255 APPLICATION OF DESIGN (Capstone) (9M) 3 credits**

**PREREQUISITE:** Permission of instructor

This is a project- or research-oriented course that emphasizes synthesis through collaborative learning. Students integrate and apply previous knowledge, skills, and experiences they learned in their major and other academic courses to complete a team-oriented project. The course emphasizes communication skills, critical thinking, problem solving, computer literacy, and teaming skills. NOTE: This course is usually taken during the last 2 semesters of the program of study. (Offered Every Other Semester)

**ADM 261 REVERSE ENGINEERING (1T, 4E) 3 credits**

**PREREQUISITE:** ADM 108 or DDT 144 or EGR 125

During this course students learn the process of quality control inspection of parts and uses of reverse engineering processes employing 3D printing, scanning, and Coordinate Measuring Machine (CMM technologies). Emphasis is on using applicable software to produce 3D models or

converting scanned images into 3D models; using CMM for parts inspection and generating points cloud for 3D modeling; interfacing generated models with reverse engineering methods. (Offered Summer Semester)

**ADM 270 BUSINESS AND FINANCIAL MANAGEMENT (3T) 3 credits**

**PREREQUISITE:** Permission of instructor

Students study the global economics and financial issues that impact the energy industry. They learn how these impacts affect what strategies energy companies use to secure reliable sources of operating funds and capital investment to improve existing facilities or develop new ones, including but not limited to generating plants, transmission and distribution systems, coal, petroleum, etc. Students explore how fluctuations in regional, national, and world energy markets directly impact day-to-day operations.

**ADM 271 PROJECT MANAGEMENT IN THE ENERGY INDUSTRY (3T) 3 credits**

**PREREQUISITE:** Permission of instructor

This course introduces the student to project management as it pertains to the energy industry. Students will study the planning, scheduling and controlling of projects, both large and small.

**ADM 272 PROFESSIONAL DEVELOPMENT & BUSINESS COMMUNICATION (3T) 3 credits**

**PREREQUISITE:** Permission of instructor

The core of this class is student Industry mentoring. Industry leaders are brought into the class room for discussions surrounding Industrial Energy activities on the horizon. Students will be required to present a project paper to Industry leaders at the end of the semester.

**ADM 273 INDUSTRIAL ENERGY DATA COLLECTION, ANALYSIS AND REPORTING (3T) 3 credits**

**PREREQUISITE:** Permission of instructor

Students study the different types of energy consumption, process metering devices, how to read, how to gather data, how to chart data, performance trends, how to present the data.

**ADM 274 POWER LOAD BALANCING AND ADVANCED MANUFACTURING/ ENERGY MANAGEMENT (3T) 3 credits**

**PREREQUISITE:** Permission of instructor

This is a study of how to optimize an industrial power system – whether for an airport, a mill, a factory or a smelter. This course is focused on more than the traditional utility concept of keeping the lights on. In today's competitive environment much more

data is needed. This class is a study of the details: quality, flow, consistency items that impact machinery, schedule, production and, often, the profitability of the business.

**ADM 275 ENERGY PRODUCTION EFFICIENCY (3T) 3 credits**

**PREREQUISITE: Permission of instructor**

This is a study of Energy Production Efficiency. How to efficiently operate and manage power production processes. Boilers and steam generation, combustion control, heat recovery, turbines, etc.

**ADM 276 DISTRIBUTED ENERGY AND STORAGE (3T) 3 credits**

**PREREQUISITE: ARS 176 or ARS 178**

This class is a study in the increase demands on the nation's electrical power systems and incidences of electricity shortages, power quality problems, rolling blackouts, and electricity price spikes. The student will study how utility customers seek other sources of high-quality, reliable electricity. Distributed Energy resources (DER), small-scale power generation sources located close to where electricity is used (e.g. a home or business); will be studied.

**ADM 277 INDUSTRIAL ENERGY SOURCES AND SUSTAINABILITY (3T) 3 credits**

**PREREQUISITE: Permission of instructor**

This class is a study of the different Industrial Energy sources and the ethical and Government regulations associated with these sources of energy.

**ADM 278 INDUSTRIAL QUALITY (3T) 3 credits**

**PREREQUISITE: Permission of instructor**

Contemporary concepts and methods for quality and productivity design and improvement; philosophies of Deming, Tachuai, and others leading the quality management and engineering movement; Shewart's methods for statistical process control, process capability analysis, statistical methods for tolerance assessment, process control methods employing attribute data, design of experiments, concepts and methods.

**ADM 279 INDUSTRIAL WATER USAGE AND DISPOSAL (3T) 3 credits**

**PREREQUISITE: Permission of instructor**

A study of Industrial water usage in the United States, methods for water conservation and water efficiency improvements. A study of Industrial processes that consume a large amount of water. Water reclaiming and disposal methods.

**ADM 280 INDUSTRIAL ENERGY INTERNSHIP (3T) 3 credits**

**PREREQUISITE: Permission of instructor**

Internship- (requires mentor with school and Industry, requires documented meetings between mentors and student. Defined projects. Required presentation at end of class to conference or

leadership.

**ADM 281 APPLICATION OF DESIGN (Capstone) (3T) 3 credits**

**PREREQUISITE: Permission of instructor**

Students in this course explore the latest in energy technologies and how they are designed to increase efficiencies, protect the environment and streamline processes. Students discover how some of the new technologies have been around for quite some time and the reasons they are capturing new attention

## AIR CONDITIONING AND REFRIGERATION (ACR)

**ACR 111 PRINCIPLES OF REFRIGERATION (1T, 6M) 3 credits**

This course emphasizes the fundamental principles for air conditioning and refrigeration. Instruction is provided in the theory and principles of refrigeration and heat transfer, HVAC/R system components, common, and specialty tools for HVAC/R, and application of the concepts of basic compression refrigeration. Upon completion, students should identify system components and understand their functions, identify and use common and specialty HVAC/R tools, and maintain components of a basic compression refrigeration system. **(Taught on Demand)**

**ACR 112 HVAC SERVICE PROCEDURES (1T, 6M) 3 credits**

**PREREQUISITE: Permission of instructor**

This course covers system performance checks and refrigerant cycle diagnosis. Emphasis is placed on the use of refrigerant recovery/recycle units, industry codes, refrigerant coils and correct methods of charging and recovering refrigerants. Upon completion, students should be able to properly recover/recycle refrigerants and demonstrate safe, correct service procedures which comply with the no-venting laws.

**ACR 113 REFRIGERATION PIPING PRACTICES (1T, 6M) 3 credits**

The course introduces students to the proper installation procedures of refrigerant piping and tubing for the heating, ventilation, air conditioning and refrigeration industry. This course includes various methods of working with and joining tubing. Upon completion, students should comprehend related terminology and be able to fabricate pipe, tubing, and pipe fittings.

**ACR 119 FUNDAMENTALS OF GAS HEATING SYSTEMS (1T, 6M) 3 credits**

This course provides instruction on general service and installation for common gas furnace system components. Upon completion, students will be able to install and service gas furnaces in a wide range of applications.

**ACR 120 FUNDAMENTALS OF ELECTRIC HEATING SYSTEMS (1T, 6M) 3 credits**

This course covers the fundamentals of electric furnace

systems. Emphasis is placed on components, general service procedures, and basic installation. Upon completion, students should be able to install and service electric furnaces, heat pumps, and solar and hydronics systems.

**ACR 121 PRINCIPLES OF ELECTRICITY FOR HVACR (1T, 6M) 3 credits**

This course is designed to provide the student with the basic knowledge of electrical theory and circuitry as it pertains to air conditioning and refrigeration. This course emphasizes safety, definitions, symbols, laws, circuits, and electrical test instruments. Upon completion, students should understand and be able to apply the basic principles of HVACR circuits and circuit components.

**ACR 122 HVACR ELECTRICAL CIRCUITS (1T, 4E) 3 credits**

This course introduces the student to electrical circuits and diagrams. Electrical symbols and basic wiring diagrams are constructed in this course. Upon completion, students should understand standard wiring diagrams and symbols.

**ACR 123 HVACR ELECTRICAL COMPONENTS (1T, 4E) 3 credits**

This course introduces students to electrical components and controls. Emphasis is placed on the operations of motors, relays, contractors, starters, and other HVAC controls. Upon completion, students should be able to understand motor theory and control functions in HVACR equipment.

**ACR 126 COMMERCIAL HEATING SYSTEMS (1T, 4E) 3 credits**

**PREREQUISITES: ACR 119, ACR 120**  
This course covers the theory and application of larger heating systems. Emphasis is placed on larger heating systems associated with commercial applications such as gas heaters, boilers, unit heaters, and duct heaters. Upon completion, students should be able to troubleshoot and perform general maintenance on commercial heating systems.

**ACR 128 HEAT LOAD CALCULATIONS (3T) 3 credits**

**PREREQUISITE: Permission of instructor**  
This course focuses on heat flow into and out of building structures. Emphasis is placed on determining heat gain/heat loss of a given structure. Upon completion, students should be able to calculate heat load and determine HVAC equipment size requirements.

**ACR 130 COMPUTER ASSISTED HVAC TROUBLESHOOTING (2E) 1 credit**

**PREREQUISITE: Permission of instructor**  
This course focuses on troubleshooting procedures. Emphasis is placed on the proper use of test equipment and machine/electrical malfunctions. Upon completion, students should be able to diagnosis and repair service problems in HVAC

equipment.

**ACR 132 RESIDENTIAL AIR CONDITIONING (1T, 6M) 3 credits**

This course introduces students to residential air conditioning systems. Emphasis is placed on the operation, service, and repair of residential air conditioning systems. Upon completion, students should be able to service and repair residential air conditioning systems.

**ACR 135 MECHANICAL GAS SAFETY CODES (3T) 3 credits**

This course is to enhance the student knowledge of the Southern Mechanical and Gas Code as well as fire and job safety requirements. Emphasis is placed on code book content and compliance with installation requirements. Upon completion, students should be able to apply code requirements to all work.

**ACR 138 CUSTOMER RELATIONS IN HVAC (3T) 3 credits**

This course covers the basic aspects of customer relations needed by the HVAC technician. Topics include employability skills associated with job performance, record keeping, service invoices, certification requirements, local ordinances, and business ethics.

**ACR 139 AUTOMOTIVE AIR CONDITIONING (1T, 6E) 3 credits**

This course focuses on commercial refrigeration systems. Emphasis is placed on overall operation, troubleshooting and maintenance of commercial refrigeration systems. Upon completion, students should be able to service and repair commercial refrigeration systems. **(Taught on Demand)**

**ACR 141 ENVIRONMENTAL SYSTEMS (2T, 4E) 4 credits**

**PREREQUISITE: Permission of instructor**  
This course provides students with knowledge and skills of environmental chambers. Topics include theory of the refrigerant components and refrigerant circuits, programmable controllers, electrical pressure and calibration instruments and places emphasis on safety. Upon course completion, students should be able to apply environmentally-safe practices.

**ACR 144 BASIC DRAWING & BLUEPRINT READING IN HVAC (3T) 3 credits**

**PREREQUISITE: Permission of instructor**  
This course covers basic drawing and blueprint reading as applied to the HVAC industry. Emphasis is on three-view drawings, basic duct systems, and isometric piping. Upon course completion, students should be able to perform basic drawings related to HVAC systems and read pertinent blueprints.

**ACR 147 REFRIGERATION TRANSITION AND RECOVERY (3T) 3 credits**

This course is EPA-approved and covers material relating to the requirements necessary for types I, II, III and universal certification. Upon completion, students should be able to take the EPA/608 refrigerant certification exam. **(Taught on Demand)**

**ACR 148 HEAT PUMP SYSTEMS I (1T, 6M) 3 credits**

**COREQUISITE: ACR 149**

Instruction received in this course centers around the basic theory and application of heat pump systems and components. Upon completion, students will be able to install and service heat pumps in a wide variety of applications.

**ACR 149 HEAT PUMP SYSTEMS II (1T, 6M) 3 credits**

**COREQUISITE: ACR 148**

This is a continuation course of the basic theory and application of heat pump systems. Topics include the electrical components of heat pumps and their function. Upon completion, students should be able to install and service heat pumps.

**ACR 151 DUCT DESIGN & FABRICATION (2T, 8E) 6 credits**

This course provides instruction related to blueprints, layouts, and design ducts. Topics include all aspects of fabrication including straight duct, offsets and various other fittings needed to perform a certain task.

**ACR 181 SPECIAL TOPICS IN AIR CONDITIONING AND REFRIGERATION (3T) 3 credits**

This course provides specialized instruction in various areas related to the air conditioning and refrigeration industry. Emphasis is placed on meeting the students' needs.

**ACR 187 SPECIAL TOPICS IN ACR (3T, 6M) 5 credits**

This course provides students with opportunities to experience hands-on application of specialized instruction in various areas related to the air conditioning and refrigeration industry.

**ACR 200 REVIEW FOR CONTRACTORS EXAM (3T) 3 credits**

This course prepares students to take the State Certification Examination. Emphasis is placed on all pertinent codes, piping procedures, duct design, load calculation, psychometrics, installation procedures, and air distribution. Upon completion, students should be prepared to take the contractors exam. **(Taught on Demand)**

**ACR 202 SPECIAL REFRIGERATION SYSTEMS (3T) 3 credits**

This course is designed to give the students the basic knowledge of a variety of commercial refrigeration systems. Topics include expandable refrigeration evaporator systems,

combination spray and compressor system, open cycle ammonia, CO2 pellets, vortex tubes, reach in coolers, and soft serve ice cream machines. Upon completion, students should be able to perform general troubleshooting and maintenance on various commercial refrigeration systems. **(Taught on Demand)**

**ACR 203 COMMERCIAL REFRIGERATION (1T, 4E) 3 credits**

This course focuses on commercial refrigeration systems. Emphasis is placed on evaporators, condensers, compressors, expansion devices, special refrigeration components and application of refrigeration systems. Upon completion, students should be able to service and repair commercial refrigeration systems.

**ACR 205 SYSTEM SIZING AND AIR DISTRIBUTION (1T, 6M) 3 credits**

This course provides instruction in the load calculation of a structure and system sizing. Topics of instruction include heat loss, heat gain, equipment and air distribution sizing, and factors making acceptable indoor air quality. Upon course completion, students should be able to calculate system requirements.

**ACR 209 COMMERCIAL AIR CONDITIONING SYSTEMS (1T, 4E) 3 credits**

This course focuses on servicing and maintaining commercial and residential HVAC/R systems. Topics include system component installation and removal and service techniques. Upon completion, the student should be able to troubleshoot and perform general maintenance on commercial and residential HVAC/R systems.

**ACR 210 TROUBLESHOOTING HVACR SYSTEMS (1T, 4E) 3 credits**

**PREREQUISITE: Permission of instructor**

This course provides instruction in the use of various meters and gauges used in the HVAC/R industry. Emphasis is placed on general service procedures, system diagnosis and corrective measures, methods of leak detection, system evacuation, charging and performance checks. Upon completion, students should be able to perform basic troubleshooting of mechanical and electrical components of HVAC/R systems.

## AEROSPACE TECHNOLOGY (ARS)

**ARS 151 WELDING PRINCIPLES, THEORY AND SYMBOLS (1T, 4E) 3 credits**

This is a theory and skill-based course in basic welding (gas and arc), plasma arc, brazing, soldering, and cutting processes used in maintenance and manufacturing. Other theory topics include forge, submerged arc, electroslag, stud arc, resistance, ultrasonic, electron beam, and laser beam welding. Students use welding symbols, joint designs,

and weld positions to prepare specimens. The course also covers terminology, standards for welding acceptable and unacceptable welds, safety, and qualification tests.

**ARS 153 GAS TUNGSTEN ARC AND PLASMA ARC WELDING (2T, 2E) 3 credits**

**PREREQUISITE: ARS 151**

This course describes processes, methods, and skills required to produce acceptable welds with gas tungsten arc welding (GTAW) and plasma arc welding (PAW) equipment for aerospace hardware; the standard of acceptability is AWS D17.1:2001 (or latest revision). Topics include equipment, tooling, shielding gases, arc characteristics, welding techniques, non-consumable electrodes, filler metals, base materials, and related safety. Instruction covers manual, semi-automatic, and automatic welding procedures.

**ARS 176 ELECTRICAL/ELECTRONIC ASSEMBLY (2T, 3M) 3 credits**

This mechanics of electrical/electronics assembly course covers materials and wire configurations, tools for wire preparation and assembly, wire stripping, connection requirements, terminal assembly, solder connections, crimp connections, solder splices, shield terminations, tying and lacing, hardware installation, inspection, testing, safety, and industry specifications/standards. Worker proficiency certification in IPC/WHMA-A-620, "Requirements for Acceptance for Cable and Wire Harness Assemblies," is covered but certification testing is not a requirement to receive credit for the class.

**ARS 178 AEROSPACE MECHANICAL ASSEMBLY (2T, 3M) 3 credits**

This course is a study of mechanical assembly processes applied in aerospace and related manufacturing industries. Topics include orbital tube welding (setup, programming, and tube preparation, drilling techniques, torquing techniques, fastener installation, related attachments, and safety.)

**ARS 251 SPECIALIZED WELDING PROCESSES (2T, 2E) 3 credits**

**PREREQUISITE: ARS 153**

This course is an overview of the basics of metals joining using processes other than electric arc. Topics include safety; brazing; soldering; diffusion bonding; and welding processes such as resistance, laser, electron beam, ultrasonic, friction, inertia, explosion, upset, thermite, and forge.

**ARS 253 WELDING CERTIFICATION PREPARATION (1T, 4E) 3 credits**

**PREREQUISITE: ARS 251**

This course details the requirements for welder/welding operator certification in the aerospace industry. Training includes gas tungsten arc welding (GTAW) and plasma arc welding (PAW) processes and equipment and related safety. Emphasis is on materials in Groups I, II, III, and IV as defined in AWS D17.1:2001.

**ARS 276 INSTRUMENTATION ATTACHMENTS AND ADHESIVE BONDING PROCEDURES (2T, 2E) 3 credits**

**PREREQUISITE: ARS 176 or 178**

This course covers the use and installation techniques of instruments such as thermocouples, temperature sensors, and strain gages on different types of aircraft and structures. Topics include bonding materials, soldering techniques, electrical testing of temperature sensors and strain gages, mixing and applying adhesives for pressure, the effects of corrosion and weather, fuel tank sealing, adhesive selection, and safety.

**ARS 278 COMPOSITE MATERIALS FABRICATION AND ASSEMBLY (2T, 2E) 3 credits**

This is a course in composite materials manufacturing. Topics include design and manufacturing techniques such as wet layups, prepregs, vacuum bagging, and filament winding. The course also covers the history of composite manufacturing, types of materials used in composite component fabrication, drilling and repair techniques, and related safety.

**ARS 279 ADV. COMPOSITE MATERIALS FABRICATION & ASSEMBLY (2T, 2E) 3 credits**

**PREREQUISITE: ARS 278**

This is a course in composite materials manufacturing. Topics include manufacturing and repair techniques such as core layups, molds, and repairs. The course also covers hot bonders, oven cures, and autoclave operations and their related uses.

**ARS 280 SURFACE PREPARATION AND COATINGS (2T, 2E) 3 credits**

This course is a study of component surface preparation for various coating and painting applications. The content includes color development, paint booth operation (electrical and air system), wet and dry coating thickness measurement, manual and automated coating techniques, and general and hazardous material handling safety.

**ARS 282 INTEGRATED ASSEMBLY PROJECT (2T, 2E) 3 credits**

**PREREQUISITE: PERMISSION OF INSTRUCTOR**

This course is a study in integrating Aerospace technologies/processes using mechanical, electrical, specialized coatings, composites, and instrumentation for aerospace assemblies. The content includes how to integrate technologies together into an aerospace assembly. The course also covers equipment used in these processes.

**ARS 284 SPECIALIZED COATING PROCESSES (2T, 2E) 3 credits**

**PREREQUISITE: ARS 176 or 178**

This course is a study in special coatings for aerospace

structures. Topics include mixing, applying, and curing of coating materials, environmental effects on coating materials, and general and hazardous material handling safety. The course also covers equipment used in these processes.

## ANTHROPOLOGY (ANT)

**ANT 200 INTRODUCTION TO ANTHROPOLOGY (3T) 3 credits**  
This course covers the physical, social and cultural development of human behavior from an anthropological perspective.

**ANT 220 CULTURAL ANTHROPOLOGY (3T) 3 credits**  
This course is an introduction to the primitive and contemporary cultures and societies viewed through the perspective of human behavior.

## ART (ART)

**ART 100 ART APPRECIATION (3T) 3 credits**  
This course is designed to help the student find personal meaning in works of art and develop a better understanding of the nature and validity of art. Emphasis is on the diversity of form and content in original artwork. Upon completion, students should understand the fundamentals of art, the materials used and have a basic overview of the history of art.

**ART 109 ART MUSEUM SURVEY (3T) 3 credits**  
This course covers the art experience through supervised visits to museums and art galleries. Emphasis is placed on learning through critical study. Upon completion, students should be able to write a critical analysis of the artwork experienced that demonstrates an understanding of aesthetics.

**ART 113 DRAWING I (6E) 3 credits**  
This course provides the opportunity to develop perceptual and technical skills in a variety of media. Emphasis is placed on communication through experimenting with composition, subject matter and technique. Upon completion, students should demonstrate and apply the fundamentals of art to various creative-drawing projects.

**ART 114 DRAWING II (6E) 3 credits**  
**PREREQUISITE: ART 113, Permission of instructor**  
This course advances the student's drawing skills in various art media. Emphasis is placed on communication through experimentation, composition, technique and personal expression. Upon completion, students should demonstrate creative drawing skills, the application of the fundamentals of art, and the communication of personal thoughts and feelings.

**ART 121 TWO-DIMENSIONAL COMPOSITION I (6E) 3 credits**  
This course introduces the basic concepts of two-dimensional design. Topics include the elements and principles of design with emphasis on the arrangements and relationships among them. Upon completion, students should demonstrate an effective use of these elements and principles of design in creating two-dimensional compositions.

**ART 122 TWO-DIMENSIONAL COMPOSITION II (6E) 3 credits**  
**PREREQUISITE: ART 121**  
This course covers the theory and practice of composing two-dimensional images. Emphasis is placed on the relation between the basic elements and principles of design and their impact on the visual message. Upon completion, students should, through personal expression, demonstrate an effective use of these elements and principles of design in creating two-dimensional compositions.

**ART 127 THREE-DIMENSIONAL COMPOSITION (6E) 3 credits**  
**PREREQUISITES: ART 113 or ART 121**  
This course introduces art materials and principles of design that acquaint the beginner with the fundamentals of three-dimensional art. Emphasis is placed on the use of art fundamentals and the creative exploration of materials in constructing three-dimensional artworks. Upon completion, students should demonstrate basic technical skills and a personal awareness of the creative potential inherent in three-dimensional art forms.

**ART 133 CERAMICS I (6E) 3 credits**  
This course introduces methods of clay forming as a means of expression. Topics may include hand building, wheel throwing, glazing, construction, design, and the functional and aesthetic aspects of pottery. Upon completion, students should demonstrate through their work, a knowledge of their methods, as well as an understanding of the craftsmanship and aesthetics involved in ceramics.

**ART 134 CERAMICS II (6E) 3 credits**  
This course develops the methods of clay forming as a means of expression. Topics may include hand building, glazing, design, and the functional and aesthetic aspects of pottery, although emphasis will be placed on the wheel throwing method. Upon completion, students should demonstrate improved craftsmanship and aesthetic quality in the production of pottery.

**ART 173 PHOTOGRAPHY I (6E) 3 credits**  
This course is an introduction to the art of photography. Emphasis is placed on the technical and aesthetic aspects of photography with detailed instruction in darkroom

techniques. Upon completion, students should understand the camera as a creative tool, understand the films, chemicals and papers, and have a knowledge of composition and history.

**ART 174 PHOTOGRAPHY II (6E) 3 credits**

**PREREQUISITE:** Permission of instructor

This is a sequence to Photography I and serves as an introductory photography course. Emphasis is placed on aesthetic as well as technical aspects of photography. Upon completion, the student will be able to produce well composed photographs.

**ART 175 DIGITAL PHOTOGRAPHY (1T, 2E) 3 credits**

This course introduces students to digital imaging techniques. Emphasis is placed on the technical application of the camera, digital photographic lighting methods, and overall composition. Upon completion, students should be able to take digital images and understand the technical aspects of producing high quality photos. This course is also taught as RTV 125.

**ART 176 FILMMAKING (6E) 3 credits**

This course provides a knowledge of the basics of filmmaking. Emphasis is placed on procedure, equipment, editing and sound. Upon completion, students should demonstrate a basic knowledge of filmmaking through critical analysis and film projects.

**ART 177 COLOR PHOTOGRAPHY (6E) 3 credits**

**PREREQUISITE:** ART 173 or ART 176 or Permission of instructor  
This course covers the primary materials and processes of color photography. Emphasis is placed on the correct exposure, processing, creative color usage, and printing of both positive/negative color materials through exploration of films, filters, processes, and color temperature. Upon completion, students should be able to correctly execute the technical controls of color materials and explore the creative possibilities of color photography.

**ART 178 AUDIO-VISUAL TECHNIQUES (6E) 3 credits**

This course is an exploration of the area of linkage between the visual and auditory senses. Work with sound and recording equipment, projected images and multimedia hardware and software is included. Students will produce finished multimedia pieces.

**ART 187 PHOTOGRAPHY, FILM, AND MEDIA I (6E) 3 credits**

**PREREQUISITE:** ART 173 or PFC 177 or Permission of instructor

This course is designed to help the student explore creative approaches to photography, film, and related media.

**ART 188 PHOTOGRAPHY, FILM, AND MEDIA II (6E) 3 credits**

**PREREQUISITE:** ART 187 or Permission of instructor

This course is designed to help the student explore creative approaches to photography, film, and related media in greater depth. Problems in darkroom techniques, laboratory techniques, and special effects are included. Upon completion, the student should be able to apply these techniques to professional quality finished pieces.

**ART 203 ART HISTORY I (3T) 3 credits**

This course covers the chronological development of different forms of art, such as sculpture, painting and architecture. Emphasis is placed on history from the ancient period through the Renaissance. Upon completion, students should be able to communicate a knowledge of time period and chronological sequence including a knowledge of themes, styles, and of the impact of society on the arts.

**ART 204 ART HISTORY II (3T) 3 credits**

This course covers the chronological development of different forms of art, such as sculpture, painting and architecture. Emphasis is placed on history from the Baroque to the present. Upon completion, students should be able to communicate a knowledge of time period and chronological sequence including a knowledge of themes, styles and of the impact of society on the arts.

**ART 216 PRINTMAKING I (6E) 3 credits**

This course introduces various printmaking processes. Topics include relief, intaglio, serigraphy, or lithography and the creative process. Upon completion, students should have a basic understanding of the creative and technical problems associated with printmaking.

**ART 217 PRINTMAKING II (6E) 3 credits**

**PREREQUISITE:** ART 216 or Permission of instructor

This course provides the opportunity for the student to study a printmaking process beyond the introductory level. Emphasis is placed on creativity, composition, and technique in the communication of ideas through printmaking. Upon completion, students should demonstrate an understanding of the printmaking process as a creative tool for the expression of ideas.

**ART 221 COMPUTER GRAPHICS I (6E) 3 credits**

This course is designed to enhance the student's ability to

produce computer generated graphics. Emphasis is on the application of original design to practical problems using a variety of hardware and software. Upon completion, students should have an understanding of professional computer graphics.

**ART 231 WATERCOLOR PAINTING I (6E) 3 credits**

This course introduces materials and techniques appropriate to painting on paper with water-based medium. Emphasis is placed on developing the technical skills and the expressive qualities of watercolor painting. Upon completion, students should be able to demonstrate a basic proficiency in handling the techniques of watercolor and how it can be used for personal expression.

**ART 232 WATERCOLOR II (6E) 3 credits**

**PREREQUISITE: ART 231**

This course advances the skills and techniques of painting on paper using water-based medium. Emphasis is placed on exploring the creative uses of watercolor and developing professional skills. Upon completion, students should demonstrate and compile a body of original paintings that reflects a personal awareness of the media's potential.

**ART 233 PAINTING I (6E) 3 credits**

This course is designed to introduce the student to fundamental painting processes and materials. Topics include art fundamentals, color theory, and composition. Upon completion, students should be able to demonstrate the fundamentals of art and discuss various approaches to the media and the creative processes associated with painting.

**ART 234 PAINTING II (6E) 3 credits**

**PREREQUISITE: ART 233**

This course is designed to develop the student's knowledge of the materials and procedures of painting beyond the introductory level. Emphasis is placed on the creative and technical problems associated with communicating through composition and style. Upon completion, students should be able to demonstrate the application of the fundamentals of painting and the creative process to the communication of ideas.

**ART 253 GRAPHIC DESIGN I (6E) 3 credits**

**PREREQUISITE: VCM 180**

This course is designed to introduce the study of visual communication through design. Emphasis is placed on the application of design principles to projects involving such skills as illustration, layout, typography, and production technology. Upon completion, students should demonstrate a knowledge of the fundamentals of art and understanding

of the relationship between materials, tools and visual communication.

**ART 254 GRAPHIC DESIGN II (6E) 3 credits**

**PREREQUISITE: VCM 180 or ART 253**

This course further explores the art of visual communication through design. Emphasis is placed on the application of design principles to projects involving such skills as illustration, layout, typography, and production technology. Upon completion, students should be able to apply the knowledge of the fundamentals of art, material and tools to the communication of ideas.

**ART 263 MUSEUM PRACTICE I (2-8E) 1-4 credits**

**PREREQUISITE: Permission of Instructor**

This course provides an introduction to a variety of museum works, with practical training supervised by museum staff. Topics may include promotion, shipping, labeling and hanging of a museum exhibit as well as the study of the work itself. Upon completion, students should understand the activities surrounding a museum exhibit and be able to explain how the experience advanced their knowledge of communicating through art.

**ART 264 MUSEUM PRACTICE II (2-8E) 1-4 credits**

**PREREQUISITE: ART 263 or Permission of instructor**

This course provides further study of museum artworks, with practical training supervised by museum staff. Topics may include promotion, shipping, labeling and hanging of a museum exhibit as well as the study of the work itself. Upon completion, students should understand the activities surrounding a museum exhibit and be able to explain how the experience advanced their knowledge of communicating through art.

**ART 273 STUDIO PHOTOGRAPHY I (6E) 3 credits**

**PREREQUISITE: ART 174 or Permission of instructor**

This course stresses image-making problems requiring studio or other controlled environment solutions. Lights, props, and related equipment and techniques are utilized. The student will produce quality photographs using studio techniques.

**ART 274 STUDIO PHOTOGRAPHY II (6E) 3 credits**

**PREREQUISITE: ART 273 or Permission of instructor**

This course deals with advanced problems requiring studio or other controlled environment solutions. Lights, props, and related equipment and techniques are utilized. The student will produce quality photographs using studio techniques.

**ART 275 ADVANCED DIGITAL PHOTOGRAPHY (1T, 2E) 3 credits**

This course explores various uses of digital photography. Subjects may include studio, portrait, landscape and other areas of photography. Upon completion, the student should be able to apply the techniques necessary to produce professional photographs of a variety of subjects.

**ART 283 GRAPHIC ANIMATION I**  
(6E) **3 credits**  
**PREREQUISITE: ART 221**

This course is designed to teach the art of animation as a continuation of the study of visual communication. Topics include story development, drawing, layout, story boarding, directing, motion control, sound synchronization, lighting and camera operation. Upon completion, students should understand the creative process as it relates to animation and demonstrate this knowledge through various projects.

**ART 284 GRAPHIC ANIMATION II**  
(6E) **3 credits**  
**PREREQUISITE: ART 283**

This course advances the students' technical and aesthetic knowledge of animation beyond the introductory level. Topics include story development, drawing, layout, story boarding, directing, motion control, sound synchronizing, lighting and camera operation. Upon completion, students should advance his or her understanding of the creative process as it relates to animation and demonstrate this knowledge through various projects.

**ART 291 SUPERVISED STUDY IN STUDIO ART I**  
(2-8E) **1-4 credits**

This course is designed to enable the student to continue studio experiences in greater depth. Topics are to be chosen by the student with the approval of the instructor. Upon completion, the student should have a greater expertise in a particular area of art.

**ART 292 SUPERVISED STUDY IN STUDIO ART II**  
(2-8E) **1-4 credits**

This course is designed to enable the student to continue studio experiences in greater depth. Topics are chosen by the student with the approval of the instructor. Upon completion, the student should have greater expertise in a particular area of art.

**ART 299 ART PORTFOLIO**  
(2-8E) **1-4 credits**

This course is designed to help the art major in the preparation and presentation of an art portfolio. Emphasis is placed on representing the student's potential as an artist in order to interest employers, clients or schools. Upon completion, students should be able to make a professional presentation of their design and communication skills.

**ASTRONOMY (AST)**

**AST 220 INTRODUCTION TO ASTRONOMY**

**(3T, 2E) 4 credits**

This course covers the history of astronomy and the development of astronomical thought leading to the birth of modern astronomy and its most recent development. Emphasis is placed on the coverage of astronomical instruments and measuring technologies, the solar system, the Milky Way galaxy, important extra-galactic objects, and cosmology. Laboratory is required.

**BIOLOGY (BIO)**

**BIO 103 PRINCIPLES OF BIOLOGY I**  
(3T, 2E) **4 credits**

**RECOMMENDED PREREQUISITE: All coursework in ENR 094 must be completed or appropriate placement score.**

This is an introductory course for both science and non-science majors. It covers physical, chemical, and biological principles common to all organisms. These principles are explained through a study of cell structure and function, cellular reproduction, basic biochemistry, cell energetics, the process of photosynthesis, and Mendelian and molecular genetics. Also included are the scientific method, basic principles of evolution, and an overview of the diversity of life with emphasis on viruses, prokaryotes, and protists. A 120 minute laboratory is required.

**BIO 104 PRINCIPLES OF BIOLOGY II**  
(3T, 3E) **4 credits**

**PREREQUISITE: BIO 103**

This course is an introduction to basic ecological and evolutionary relationships of plants and animals and a survey of plant and animal diversity including classification, morphology, physiology, and reproduction. A 180 minute laboratory is required.

**BIO 105 INTRODUCTION TO BIOTECHNOLOGY**  
(3T, 2E) **4 credits**

**CO-REQUISITE: BIO 103**

This course is an introduction to biotechnology, including career exploration, historical development and current applications in the areas of medicine, forensics, agriculture, and the environment. Students will learn laboratory safety and documentation while acquiring skills in the maintenance and calibration of basic lab equipment, calculation, and preparation of lab solutions and media.

**BIO 107 CELL CULTURE**  
(2T, 4E) **4 credits**

**PREREQUISITE: A grade of "C" or better in both BIO 103 and BIO 105**

The overall objective of this course is to provide a basic understanding of the growth requirements and methodologies associated with the propagation of organisms important to the field of biotechnology. Instruction will focus on growing techniques and long-term maintenance of various cell cultures, including both attached and suspension cell lines. Microbial life cycle and cell culture will be emphasized, including discussion of pathogenic aspects

and utilization of microbial transformation and protein production for use in biotechnological processes.

**BIO 201 HUMAN ANATOMY AND PHYSIOLOGY I (3T, 2E) 4 credits**

**PREREQUISITE:** A grade of "C" or better in ENR 094 or appropriate placement score.

Human Anatomy and Physiology I covers the structure and function of the human body. Included is an orientation of the human body; basic principles of chemistry; a study of cells and tissues; metabolism; joints; the integumentary, skeletal, muscular, and nervous systems; and the senses. Dissection, histological studies, gross anatomy, and physiology are featured in the laboratory experience. Laboratory is required.

**BIO 202 HUMAN ANATOMY AND PHYSIOLOGY II (3T, 2E) 4 credits**

**PREREQUISITE:** A grade of "C" or better in BIO 201

Human Anatomy and Physiology II covers the structure and function of the human body. Included is a study of basic nutrition; basic principles of water; electrolyte; acid-base balance; and the endocrine, respiratory, digestive, excretory, cardiovascular, lymphatic and reproductive systems. Dissection, histological studies, gross anatomy, and physiology are featured in the laboratory experience. Laboratory is required.

**BIO 203 TECHNIQUES IN MOLECULAR BIOLOGY (2T, 4E) 4 credits**

**PREREQUISITE:** A grade of "C" or better in BIO 107

**RECOMMENDED PREREQUISITES:** It is strongly recommended that students complete MTH 100 and/or be eligible to take MTH 112 prior to registering for this course. Completion of CHM 111 before taking this course is also highly encouraged.

This course is an introduction to the major topics in biochemistry and molecular biology. Topics include the major classes of biological molecules, an overview of the major metabolic pathways, advancing technologies, and bioethical issues. The laboratory will provide experience in the isolation and manipulation of DNA and RNA, DNA and protein electrophoresis, and enzymatic and immunological assays.

**BIO 220 GENERAL MICROBIOLOGY (2T, 4E) 4 credits**

**PREREQUISITE:** A grade of "C" or better in ENR 094 or appropriate placement score.

**RECOMMENDED PREREQUISITES:** BIO 201 and BIO 202 and 4 semester hours of Chemistry

This course includes historical perspectives, cell structure and function, microbial genetics, infectious diseases, immunology, distribution, physiology, culture, identification, classification, and control of microorganisms. The laboratory experience includes micro-techniques, distribution, culture, identification, and control. Laboratories are required.

**BIO 250 DIRECTED STUDIES IN BIOLOGY (0-8E) 1-4 credits**

**PREREQUISITE: Permission of instructor**

This course allows independent study under the direction of an instructor. Topics to be included in the course material will be approved by the instructor prior to or at the beginning of the class. Upon completion, students will be able to demonstrate knowledge of the topics as specified by the instructor.

**BIO 251 DIRECTED STUDIES IN BIOLOGY (0-8E) 1-4 credits**

**PREREQUISITES:** BIO 250 and Permission of instructor

This course allows independent study under the direction of an instructor. Topics to be included in the course material will be approved by the instructor prior to or at the beginning of the class. Upon completion, students will be able to demonstrate knowledge of the topics as specified by the instructor.

**BIO 252 DIRECTED STUDIES IN BIOTECHNOLOGY (1T, 2E) 2 credits**

**PREREQUISITE/CO-REQUISITE:** A grade of "C" or better in BIO 107

**RECOMMENDED PREREQUISITES:** It is strongly recommended that students complete ENG 101 prior to registering for this course.

This course allows independent study under the direction of an instructor. Topics to be included in the course material will be approved by the instructor prior to or at the beginning of the class. Typical projects will expose the student to the industry and provide practical application of laboratory procedures. Upon completion, the student will be able to demonstrate knowledge of the topics as specified by the instructor.

**BIO 254 ADVANCED TOPICS IN BIOTECHNOLOGY (1T, 2E) 2-3 credits**

**PREREQUISITE:** A grade of "C" or better in BIO 252

In this advanced course, the student will design and implement an independent study that utilizes biotechnological methods relevant to local industry or to expand the scope of previous laboratory experience. The projects will include an expansion of previous experiences to design and implement an application as found in local biotechnology industries.

**BIO 256 BIOTECHNOLOGY INTERNSHIP (10E) 2 credits**

**PREREQUISITE:** To be eligible for the internship opportunities available in BIO 256, students must have a 2.5 GPA or better in all coursework since enrolling in BIO 105, and all prior Biotechnology courses (including BIO 203) must be completed with a grade of "C" or better.

Internships may be awarded on a competitive basis depending on the availability of the positions.

The internship will provide advanced students the opportunity to develop job and career-related skills while in a work setting. Upon successful completion of this course, the student should be able to apply classroom knowledge to an actual work situation. The work will be developed cooperatively with academic, industrial, and private institutional biotechnology laboratories.

**BUSINESS (BUS)**

**BUS 193 BUSINESS CO-OP I  
(1T) 1 credit**

**PREREQUISITE: Permission of Instructor**

This course is part of a series wherein the student works in a degree/program related job. Emphasis is placed on student's work experience as it integrates academic knowledge with practical application through exposure to business and related practices in the working environment. The grade is based on the employer's evaluation of each student's productivity, content of a descriptive report submitted by the student, and student development and assessment of a learning contract. Students enrolling in this course must have successfully completed two (2) business courses.

**BUS 194 BUSINESS CO-OP II  
(1T) 1 credit**

**PREREQUISITE: BUS 193**

This course is a part of a series wherein the student works in a degree/program related job. Emphasis is placed on student's work experience as it integrates academic knowledge with practical application through exposure to business and related practices in the working environment. The grade is based on the employer's evaluation of each student's productivity, content of a descriptive report submitted by the student, and student development and assessment of a learning contract.

**BUS 195 BUSINESS CO-OP III  
(1T) 1 credit**

**PREREQUISITE: BUS 194**

This course is a part of a series wherein the student works in a degree/program related job. Emphasis is placed on student's work experience as it integrates academic knowledge with practical application through exposure to business and related practices in the working environment. The grade is based on the employer's evaluation of each student's productivity, content of a descriptive report submitted by the student, and student development and assessment of a learning contract.

**BUS 196 BUSINESS CO-OP IV  
(1T) 1 credit**

**PREREQUISITE: BUS 195**

This course is a part of a series wherein the student works in a degree/program related job. Emphasis is placed on student's work experience as it integrates academic knowledge with practical application through exposure to business and related practices in the working environment. The grade is based on the employer's evaluation of each student's productivity, content of a descriptive report submitted by the student, and student development and assessment of a learning contract.

**BUS 197 BUSINESS CO-OP V  
(1T) 1 credit**

**PREREQUISITE: BUS 196**

This course is a part of a series wherein the student works in a degree/program related job. Emphasis is placed on student's work experience as it integrates academic knowledge with practical application through exposure to business and related practices in the working environment. The grade is based on the employer's evaluation of each student's productivity, content of a descriptive report submitted by the student, and student development and assessment of a learning contract.

**BUS 215 BUSINESS COMMUNICATIONS  
(3T) 3 credits**

**PREREQUISITE: ENG 101**

This course covers written, oral, and nonverbal communications. Topics include the application of communication principles to the production of clear, correct, and logically organized faxes, e-mail, memos, letters, resumes, reports and other business communications.

**BUS 241 PRINCIPLES OF ACCOUNTING I  
(3T) 3 credits**

This course is designed to provide a basic theory of accounting principles and practices used by service and merchandising enterprises. Emphasis is placed on financial accounting, including the accounting cycle, and financial statement preparation and analysis.

**BUS 242 PRINCIPLES OF ACCOUNTING II  
(3T) 3 credits**

**PREREQUISITE: BUS 241 with a grade of "C" or higher.**

This course is a continuation of BUS 241. In addition to a study of financial accounting, this course also places emphasis upon managerial accounting, with coverage of corporations, statement analysis, introductory cost accounting, and use of information for planning, control, and decision making. NOTE: Additional topics in managerial accounting may be included.

**BUS 246 ACCOUNTING ON THE MICROCOMPUTER  
(3T) 3 credits**

**PREREQUISITE: BUS 241 with a grade of "C" or higher.**

This course utilizes the microcomputer in a study of accounting principles and practices. Emphasis is on the preparation and analysis of financial statements, measuring business activity, and making rational business decisions.

**BUS 247 FINANCIAL MARKETS AND INSTITUTIONS  
(3T) 3 credits**

**PREREQUISITE: ECO 231 with a grade of "C" or higher.**

Topics include: Interest Rates, Risk, Efficiency, the money market, the bond market, the stock market, the mortgage market, the foreign exchange market, International Finance, Banking, Financial Regulation, Mutual Funds, Insurance and Pension Funds, and Investment Banks and Capital Firms.

**BUS 248 MANAGERIAL ACCOUNTING  
(3T) 3 credits**

- PREREQUISITE: BUS 241 with a grade of "C" or higher.**  
This course is designed to familiarize the student with management concepts and techniques of industrial accounting procedures. Emphasis is placed on cost behavior, contribution approach to decision-making, budgeting, overhead analysis, cost-volume-profit analysis, and cost accounting systems.
- BUS 253 INDIVIDUAL INCOME TAX (3T) 3 credits**  
This course is intended to familiarize the student with the fundamentals of the federal income tax laws with primary emphasis on those affecting the individual. Emphasis is placed on gross income determination, adjustments to income, business expenses, itemized deductions, exemptions, capital gains/losses, depreciation, and tax credits. Upon completion of this course, the student will be able to apply the fundamentals of the federal income tax laws affecting the individual
- BUS 263 THE LEGAL AND SOCIAL ENVIRONMENT OF BUSINESS (3T) 3 credits**  
This course provides an overview of the legal and social environment for business operations with emphasis on contemporary issues and their subsequent impact on business. Topics include the Constitution, the Bill of Rights, the legislative process, civil and criminal law, administrative agencies, trade regulations, consumer protection, contracts, employment and personal property.
- BUS 271 BUSINESS STATISTICS I (3T) 3 credits**  
**PREREQUISITE: MTH 110 or MTH 112 with a grade of "C" or higher., or appropriate mathematics placement score.**  
This is an introductory study of basic statistical concepts applied to economic and business problems. Topics include the collection, classification, and presentation of data, statistical description and analysis of data, measures of central tendency and dispersion, elementary probability, sampling, estimating and introduction to hypothesis testing.
- BUS 272 BUSINESS STATISTICS II (3T) 3 credits**  
**PREREQUISITE: BUS 271 with a grade of "C" or higher.**  
This course is a continuation of BUS 271. Topics include sampling theory, statistical inference, regression and correlation, chi square, analysis of variance, time series index numbers, and decision theory. **Note: Extensive use of computer software is required in this course.**
- BUS 275 PRINCIPLES OF MANAGEMENT (3T) 3 credits**  
This course provides a basic study of the principles of management. Topics include planning, organizing, staffing, directing, and controlling with emphasis on practical business applications.
- BUS 276 HUMAN RESOURCE MANAGEMENT (3T) 3 credits**  
This course provides an overview of the responsibilities of the supervisor of human resources. Topics include the selection, placement, testing, orientation, training, rating, promotion, and transfer of employees.
- BUS 285 PRINCIPLES OF MARKETING (3T) 3 credits**  
This course provides a general overview of the field of marketing. Topics include marketing strategies, channels of distribution, marketing research, and consumer behavior.
- BUS 289 BUSINESS STRATEGY CAPSTONE (3T) 3 credits**  
**PREREQUISITE: BUS 241, BUS 247, & BUS 271 with grades of "C" or higher.**  
Topics include: Review of method for a comprehensive project, review of accounting, management, statistical, communication, and other skills useful for the project, development of project concept and purpose, initial outline of the project, making contact with local business(es), development of bibliography and revision of outline, producing drafts of project and final project, and presentation of final project.
- BUS 291 ALTERNATING BUSINESS CO-OP I (1-3T) 1-3 credits**  
**PREREQUISITE: Permission of instructor**  
This two-course sequence allows students to alternate semesters of full-time work in a job closely related to the student's academic major with semesters of full-time academic work. Emphasis is placed on a student's work experience as it integrates academic knowledge with practical applications in the business environment. The grade is based on the employer's evaluation of student productivity, evaluative reports submitted by the student, and the development and assessment by the student of a learning contract.
- BUS 292 ALTERNATING BUSINESS CO-OP II (1-3T) 1-3 credits**  
**PREREQUISITE: Permission of instructor**  
This two-course sequence allows students to alternate semesters of full-time work in a job closely related to the student's academic major with semesters of full-time academic work. Emphasis is placed on a student's work experience as it integrates academic knowledge with practical applications in the business environment. The grade is based on the employer's evaluation of student productivity, evaluative reports submitted by the student, and the development and assessment by the student of a learning contract.
- BUS 296 BUSINESS INTERNSHIP I (3T) 3 credits**  
**PREREQUISITE: Permission of instructor**

This two-course sequence allows the student to work part-time on a job closely related to his or her academic major while attending classes on a full-time basis. Emphasis is placed on a student's work experience as it integrates academic knowledge with practical applications in the business environment. The grade is based on a term paper, job-site visits by the instructor, the employer's evaluation of the student, and the development and assessment by the student of a learning contract. Students must have successfully completed a minimum of 6 semester hours and have a minimum GPA of 2.0 (C).

**BUS 297 BUSINESS INTERNSHIP II (3T) 3 credits**

**PREREQUISITE:** Permission of instructor

This two-course sequence allows the student to work part-time on a job closely related to his or her academic major while attending classes on a full-time basis. Emphasis is placed on a student's work experience as it integrates academic knowledge with practical applications in the business environment. The grade is based on a term paper, job-site visits by the instructor, the employer's evaluation of the student, and the development and assessment by the student of a learning contract. Students must have successfully completed a minimum of 6 semester hours and have a minimum GPA of 2.0 (C).

**CHEMISTRY (CHM)**

**CHM 104 INTRODUCTION TO INORGANIC CHEMISTRY (3T, 3E) 4 credits**  
**PREREQUISITE:** MTH 098 or equivalent math placement score.

This is a survey course of general chemistry for students who do not intend to major in science or engineering and may not be substituted for CHM 111. Lecture will emphasize the facts, principles, and theories of general chemistry including math operations, matter and energy, atomic structure, symbols and formulas, nomenclature, the periodic table, bonding concepts, equations, reactions, stoichiometry, gas laws, phases of matter, solutions, pH, and equilibrium reactions. Laboratory is required.

**CHM 111 COLLEGE CHEMISTRY I (3T, 3E) 4 credits**  
**PREREQUISITE:** MTH 112 or permission of an advisor.  
**COREQUISITE:** MTH 112

MTH 112 and CHM 111 may be taken in the same semester with permission of an advisor. This is the first course in a two-semester sequence designed for the science or engineering major who is expected to have a strong background in mathematics. Topics in this course include measurements, nomenclature, stoichiometry, atomic structure, equations and reactions, basic concepts of thermochemistry, chemical and physical properties, bonding, molecular structure, gas laws, kinetic-molecular theory, condensed matter, solutions, colloids, and some descriptive chemistry topics. Laboratory is required.

**CHM 112 COLLEGE CHEMISTRY II (3T, 3E) 4 credits**  
**PREREQUISITE:** CHM 111 and MTH 112

This is the second course in a two-semester sequence designed primarily for the science and engineering student who is expected to have a strong background in mathematics. Topics in this course include chemical kinetics, chemical equilibria, acids and bases, ionic equilibria of weak electrolytes, solubility product principle, chemical thermodynamics, electrochemistry, oxidation-reduction, nuclear chemistry, an introduction to organic chemistry and biochemistry, atmospheric chemistry, and selected topics in descriptive chemistry including the metals, nonmetals, semi-metals, coordination compounds, transition compounds, and post-transition compounds. Laboratory is required.

**CHM 221 ORGANIC CHEMISTRY I (3T, 3E) 4 credits**  
**PREREQUISITE:** CHM 112

This is the first course in a two-semester sequence. Topics in this course include nomenclature, structure, physical and chemical properties, synthesis, and typical reactions for aliphatic, alicyclic, and aromatic compounds with special emphasis on reaction mechanisms, spectroscopy, and stereochemistry. Laboratory is required and will include the synthesis and confirmation of representative organic compounds with emphasis on basic techniques.

**CHM 222 ORGANIC CHEMISTRY II (3T, 32E) 4 credits**  
**PREREQUISITE:** CHM 221

This is the second course in a two-semester sequence. Topics in this course include nomenclature, structure, physical and chemical properties, synthesis, and typical reactions for aliphatic, alicyclic, aromatic, and biological compounds, polymers and their derivatives, with special emphasis on reaction mechanisms, spectroscopy, and stereochemistry. Laboratory is required and will include the synthesis and confirmation of representative organic compounds with emphasis on basic techniques.

**CHM 250 DIRECTED STUDIES IN CHEMISTRY (1-3T) 1-3 credit**  
**PREREQUISITE:** Permission of the instructor.

This course is designed for independent study in specific areas of chemistry chosen in consultation with a faculty member and carried out under faculty supervision. This course may be repeated three (3) times for credit.

**CHILD DEVELOPMENT (CHD)**

**CHD 100 INTRODUCTION OF EARLY CARE AND EDUCATION OF CHILDREN (3T) 3 credits**

This course introduces students to the child education and care profession. It is designed to increase understanding of the basic concepts of child development and the

developmental characteristics of children from birth through age 8/9 years. This course is the foundation for planning appropriate activities for children and establishing appropriate expectations of young children. This class also offers an opportunity to study the developmental domains (social, emotional, cognitive/language and physical). Course includes observations of the young child in early childhood settings.

## **CHD 201 CHILD GROWTH AND DEVELOPMENT PRINCIPLES (3T) 3 credits**

This course is a systematic study of child growth and development from conception through early childhood. Emphasis is on principles underlying physical, mental, emotional, and social development, and on methods of child study, and practical implications. Upon completion, students will be able to use knowledge of how young children differ in development and approaches to learning to provide opportunities that support the physical, social, emotional, language, cognitive, and aesthetic development. PSY 211 may be used as a suitable substitute for this course for the AAS degree program.

## **CHD 202 CHILDREN'S CREATIVE EXPERIENCES (3T) 3 credits**

This course focuses on fostering creativity in preschool children and developing a creative attitude in teachers. Topics include selecting and developing creative experiences in language arts, music, art, science, math and movement with observation and participation with young children required. On completion, students will be able to select and implement creative and age-appropriate experiences for young children.

## **CHD 203 CHILDREN'S LITERATURE AND LANGUAGE DEVELOPMENT (3T) 3 credits**

This course surveys appropriate literature and language arts activities designed to enhance young children's speaking, listening, pre-reading, and writing skills. Emphasis is placed on developmental appropriateness as related to language. Upon completion, students should be able to create, evaluate and demonstrate activities which support a language-rich environment for young children.

## **\*CHD 204 METHODS AND MATERIALS FOR TEACHING CHILDREN (3T) 3 credits**

This course introduces basic methods and materials used in teaching young children. Emphasis is placed on student's compiling a professional resource file of activities used for teaching math, language arts, and science and social studies concepts. Upon completion, students will be able to demonstrate basic methods of creating learning experiences using developmentally appropriate techniques, materials and realistic expectations. Course includes observations of young children in a variety of childcare environments.

## **CHD 205 PROGRAM PLANNING FOR EDUCATING YOUNG CHILDREN (3T) 3 credits**

This course provides students with knowledge to develop programs for early child development. Specific content includes a review of child development concepts and program contents. Upon completion, students will be able to develop and evaluate effective programs for the education of young children.

## **CHD 206 CHILDREN'S HEALTH AND SAFETY (3T) 3 credits**

This course introduces basic health, nutrition and safety management practices for young children. Emphasis is placed on how to set up and maintain safe, healthy environments for young children including specific procedures for infants and toddlers and procedures regarding childhood illnesses and communicable diseases.

## **CHD 208 ADMINISTRATION OF CHILD DEVELOPMENT PROGRAMS (3T) 3 credits**

This course includes appropriate administrative policies and procedures relevant to preschool programs. Topics include local, state and federal regulations; budget planning; record keeping; personnel policies and parent involvement. Upon completion, students should be able to identify elements of a sound business plan, develop familiarity with basic record-keeping techniques, and identify elements of a developmentally appropriate program.

## **CHD 209 INFANT AND TODDLER EDUCATION PROGRAMS (3T) 3 credits**

This course focuses on child development from infancy to thirty-five months of age with emphasis on planning programs using developmentally appropriate material. Emphasis is placed on positive ways to support an infant or toddler's social, emotional, physical and intellectual development. Upon completion, students should be able to plan an infant-toddler program and environment, that is appropriate and supportive of the families and the children.

## **CHD 210 EDUCATING CHILDREN WITH EXCEPTIONAL NEEDS (3T) 3 credits**

This course explores the many different types of exceptionalities found in young children. Topics include speech, language, hearing and visual impairments; gifted and talented children; mental retardation; emotional, behavioral, and neurological handicaps. Upon completion, students should be able to identify appropriate strategies for working with children.

## **CHD 214 FAMILIES AND COMMUNITIES IN EARLY CHILDCARE AND EDUCATION PROGRAMS (3T) 3 credits**

This course provides students with information about working with diverse families and communities. Students

will be introduced to family and community settings, the importance of relationships with children, and the pressing needs of today's society. Students will study and practice techniques for developing these important relationships and effective communication skills.

**CHD 215 SUPERVISED PRACTICAL EXPERIENCES IN CHILD DEVELOPMENT**

**(3E) 3 credits**

**PREREQUISITE:** Permission of instructor

This course provides a minimum of 90 hours of hands-on, supervised experience in an approved program for young children. Students will develop a portfolio documenting experiences gained during this course.

**CHD 220 PARENTING SKILLS**

**(3T) 3 credits**

This course introduces childcare providers to important issues in parenting education, beginning with prenatal concerns and continuing through childhood years. Emphasis is placed on using effective parenting and childrearing practices including appropriate guidance methods. Students learn to apply parenting skills for diverse families. Upon completion, students will be more effective in working with families and young children.

**\*Courses required in the Child Development Associate (CDA) Certification for employees currently employed within the industries.**

**COMPUTER INFORMATION SYSTEMS (CIS)**

**CIS 146 MICROCOMPUTER APPLICATIONS**

**(3T) 3 credits**

This course is an introduction to the most common microcomputer software applications. These software packages should include typical features of applications, such as word processing, spreadsheets, database management, and presentation software. Upon completion, students will be able to utilize selected features of these packages.

**CIS 147 ADVANCED MICROCOMPUTER APPLICATIONS**

**(3T) 3 credits**

**PREREQUISITE:** CIS 146 with a grade of "C" or higher.

This course is a continuation of CIS 146 in which students utilize the advanced features of topics covered in CIS 146. Advanced functions and integration of word processing, spreadsheets, database, and presentation packages among other topics are generally incorporated into the course and are to be applied to situations found in society and business. Upon completion, the student should be able to apply the advanced features of selected software appropriately to typical problems found in society and business.

**CIS 149 INTRODUCTION TO COMPUTERS**

**(3T) 3 credits**

This course is an introduction to computers and their impact on society. The course covers the development of computers, their impact on society, as well as future implications of development of computer and related communication technologies. This course introduces programming and computer operating systems. Upon completion, students will have a basic knowledge of computer technology and will be able to perform basic functions with a computer system. The course will help prepare students for the IC3 certification.

**CIS 151 GRAPHICS FOR THE WORLD WIDE WEB**

**(3T) 3 credits**

This course provides an overview to the theory, tools, and techniques necessary for creating high-quality graphics using various design software tools. At the completion of this course students will be able to apply various software packages to create graphics for Web applications in raster or vector format.

**CIS 155 INTRO. TO MOBILE APP DEVELOPMENT**

**(3T) 3 credits**

The purpose of this course is to introduce students to various app development tools for various mobile platforms. Specific topics include: app distribution sources, mobile device operating systems, survey of app development software, processes for design, build, deploying, and optimizing apps. At the conclusion of this course, students will be able to design, build, deploy, and optimize a basic app.

**CIS 171 LINUX I**

**(3T) 3 credits**

This course presents fundamental applications in Linux. Included in this course are skills development for OS installation and setup, recompile techniques, system configuration settings, file/folder structures and types, run levels, basic network applications and scripting. Additionally, the course presents security features from an administrative and user consideration.

**CIS 197E MICROSOFT EXCEL EXPERT**

**(3T) 3 credits**

**PREREQUISITE:** CIS 146

This course is designed to prepare students to take the Microsoft Office Specialist certification exam in Microsoft Excel (expert level). Topics emphasized are Microsoft Office Specialist exam objectives and test-taking skills. The students will demonstrate mastery of expert level spreadsheet skills through hands-on, performance-based lab exercises. Practice test software will provide immediate feedback on areas where additional practice is needed. Calhoun is an authorized Microsoft testing center.

**CIS 197W MICROSOFT WORD EXPERT**

**(3T) 3 credits**

**PREREQUISITE:** CIS 146

This course is designed to prepare students to take the

Microsoft Office Specialist certification exam in Microsoft Word (expert level). Topics emphasized are Microsoft Office Specialist exam objectives and test-taking skills. The student will demonstrate mastery of expert level word processing skills through hands-on, performance-based lab exercises. Practice test software will provide immediate feedback on areas where additional practice is needed. Calhoun is an authorized Microsoft testing center.

**CIS 201 INTRODUCTION TO COMPUTER PROGRAMMING CONCEPTS (3T) 3 credits**

This course presents fundamental programming concepts. Included in this course are problem solving and algorithms, various design tools, programming structures, variable data types and definitions, modularization, and selected programming languages. Techniques are introduced to enable students to develop programs. This course is a suitable substitution for the programming core of the AAT and AAS CIS programs.

**CIS 207 INTRODUCTION TO WEB DEVELOPMENT (3T) 3 credits**  
**PREREQUISITE: CIS 146 with a grade of "C" or higher.**

This course is an introduction to Web page development techniques. Topics in this course include techniques and strategies for creating good Web pages. Upon completion, the student will be able to demonstrate knowledge of the topics through Web page development projects and appropriate tests.

**CIS 208 WEB AUTHORIZING SOFTWARE (3T) 3 credits**

Students utilize various Web authoring tools to construct and edit Web sites for a variety of applications. Upon completion, students will be able to use these tools to develop or enhance Web sites.

**CIS 209 ADVANCED WEB DEVELOPMENT (3T) 3 credits**  
**PREREQUISITE: CIS 201 and CIS 207**

This course will introduce students to a scripting language. Topics include objects, arrays, methods, and functions. Students will use a scripting language to add interactivity to HTML pages. Upon completion, the student will demonstrate knowledge of the topics through projects and appropriate tests.

**CIS 211 PRINCIPLES OF INFORMATION ASSURANCE (3T) 3 credits**

This course is designed to introduce students to information security principles. Topics covered in this course will include the need for security, risk management, security technology, cryptography, and physical security. Security policies and legal/ethical issues will also be covered.

**CIS 214 SECURITY ANALYSIS (PEN Testing) (3T) 3 credits**

**PREREQUISITE: 200 Level CIS Course or instructor approval**

This course introduces students to the concept of security analysis, or penetration testing, of information systems. Students will evaluate the security of a computer system or network, assessing security risks from the position of a potential attacker. Emphasis is on identifying security flaws and providing technical solutions.

**CIS 219 ANDROID APP DEVELOPMENT (3T) 3 credits**

**PREREQUISITE: CIS 255**

In this course, students learn to program apps for an Android operating system using specified programming language. Students will be able to develop, build, deploy, and optimize an app for an Android operating system.

**CIS 222 DATABASE MANAGEMENT SYSTEMS (3T) 3 credits**

**PREREQUISITE: CIS 146**

This course will discuss database system architectures. It will teach students how to design, normalize and use a database, and link these to the Web. Students will design and build a database-enabled Web site. Upon completion, the student will be able to demonstrate knowledge of the topics through projects and appropriate tests.

**CIS 233 TRENDS IN OFFICE TECHNOLOGY (3T) 3 credits**

**PREREQUISITE: CIS 146**

The course is designed to research current trends in office technology. Emphasis is on advances in technology relevant to the office environment such as electronic mail, multimedia interaction, presentation hardware and software, and Internet use. Upon completion, the student should be able to demonstrate an awareness of current technological applications for the modern office.

**CIS 245 CYBER DEFENSE (3T) 3 credits**

The course provides students with information on the concept of cyber defense. Topics include information relative to legal aspects of cyber-attacks, threats to various levels of national and local social infrastructure, financial systems, personal data, and other direct and indirect threats. As part of this course students explore current and historical cyber threats and U.S. policy regarding infrastructure protection.

**CIS 246 ETHICAL HACKING (3T) 3 credits**

**PREREQUISITE: 200 Level CIS Course or instructor approval**

This course emphasizes scanning, testing, and securing computer systems. The lab-intensive environment provides opportunities to understand how perimeter defenses work and how hackers are able to compromise information

systems. With awareness of hacking strategies, students learn to counteract those attempts in an ethical manner.

**CIS 250 E-COMMERCE (3T) 3 credits**

This course is an introduction to e-commerce. Topics include technology infrastructure, selling on the web, marketing on the web, business activities: improving efficiency and reducing costs, social networking, mobile commerce, online auctions, legal, ethical and tax issues, web server hardware and software, electronic commerce software, electronic commerce security and payment systems for electronic commerce. Upon completion, students will be able to build an e-commerce presence.

**CIS 251 C++ PROGRAMMING (3T) 3 credits**  
**PREREQUISITE: CIS 201 with a grade of "C" or higher.**

This course is an introduction to the C++ programming language. This course is intended as a first course in problem-solving and program design. Topics covered include program style, algorithm and data structuring and modularization. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.

**CIS 252 ADVANCED C++ PROGRAMMING (3T) 3 credits**  
**PREREQUISITE: CIS 251**

This course is an advanced object-oriented programming course and covers advanced program development techniques and concepts in the context of an object-oriented language. Subject matter includes object-oriented analysis, encapsulation, inheritance, polymorphism (operator and function overloading), information hiding, abstract data types, reuse, dynamic memory allocation, and file manipulation. Upon completion, students should be able to develop a hierarchical class structure necessary to the implementation of an object-oriented software system.

**CIS 255 JAVA PROGRAMMING (3T) 3 credits**  
**PREREQUISITE: CIS 201**

This course is a first course sequence in program design and implementation in the Java programming language using hands-on programming assignments, class demonstrations, and lectures. Topics include basic features of Java program structures, Java's built-in class libraries, data types, programming control structures, and object-oriented programming concepts.

**CIS 256 ADVANCED JAVA PROGRAMMING (3T) 3 credits**  
**PREREQUISITE: CIS 255**

This course is a second course of a sequence using the Java programming language. Topics include: Sun's Swing GUI components, JDBC, JavaBeans, RMI, Servlets, and Java media

framework. Upon completion, the student will be able to demonstrate knowledge of the topics through programming projects and appropriate exams.

**CIS 263 COMPUTER MAINTENANCE (3T) 3 credits**

This course provides students with hands-on practical experience in installing software, operating systems, troubleshooting, and maintaining systems. The class will help to prepare participants for the A+ Certification sponsored by CompTIA.

**CIS 267 ENTERPRISE VIRTUALIZATION (3T) 3 credits**  
**PREREQUISITE: CIS 271 or instructor approval**

This course is designed to provide students with the knowledge and skills required to implement enterprise virtualization. Students will gain hands-on experience installing, configuring, and managing enterprise virtualization technologies.

**CIS 270 CISCO CCNA I (3T) 3 credits**

This course is the first part of a four part curriculum leading to Cisco Certified Network Associate (CCNA) certification. The content of this course is based on current requirements from the CISCO Networking Academy certification standards.

**CIS 271 CISCO CCNA II (3T) 3 credits**  
**PREREQUISITE: CIS 270**

This course is the second part of a four part curriculum leading to Cisco Certified Network Associate (CCNA) certification. The content of this course is based on current requirements from the CISCO Networking Academy certification standards.

**CIS 272 CISCO CCNA III (3T) 3 credits**  
**PREREQUISITE: CIS 270**

This course is the third part of a four part curriculum leading to Cisco Certified Network Associate (CCNA) certification. The content of this course is based on current requirements from the CISCO Networking Academy certification standards.

**CIS 273 CISCO CCNA IV (3T) 3 credits**  
**PREREQUISITE: CIS 272**

This course is the fourth part of a four part curriculum leading to Cisco Certified Network Associate (CCNA) certification. The content of this course is based on current requirements from the CISCO Networking Academy certification standards.

**CIS 276 SERVER ADMINISTRATION (3T) 3 credits**  
**PREREQUISITE: CIS 263**

This course introduces network operating system

administration. Topics included in this course are network operating system software installation, administration, monitoring and maintenance, user, group, and computer account management; shared resource management; and server hardware management. Students gain hands-on experience in managing and maintaining a network operating system environment.

## **CIS 277 NETWORK SERVICES ADMINISTRATION (3T) 3 credits**

### **PREREQUISITE: CIS 263**

This course provides an introduction to the administration of fundamental networking services and protocols. Topics included in this course are implementing, managing, and maintaining essential network operating system services such as those for client address management, name resolution, security, routing, and remote access. Students gain hands-on experience performing common network infrastructure administrative tasks.

## **CIS 280 NETWORK SECURITY (3T) 3 credits**

### **PREREQUISITE: CIS 270 or instructor approval**

This course provides a study of threats to network security and methods of securing a computer network from such threats. Topics included in this course are security risks, intrusion detection, methods of securing authentication, network access, remote access, Web access, and wired and wireless network communications. Upon completion, students will be able to identify security risks and describe appropriate counter measures.

## **CIS 282 COMPUTER FORENSICS (3T) 3 credits**

### **PREREQUISITE: 200 Level CIS Course or Instructor Approval**

This course introduces students to methods of computer forensics and investigations. This course helps prepare students for the International Association of Computer Investigative Specialists (IACIS) Certification.

## **CIS 294 SPECIAL TOPICS (3T) 3 credits**

### **PREREQUISITE: Permissions of instructor**

This course allows study of currently relevant computer science topics. Course content will be determined by the instructor and will vary according to the topic being covered. Upon completion, students will be able to demonstrate knowledge of the course topic through completion of assignments and appropriate tests.

## **CIS 296 SPECIAL TOPICS (6E) 3 credits**

### **PREREQUISITE: Permissions of instructor**

This course allows study of currently relevant computer science topics. Course content will be determined by the instructor and will vary according to the topic being covered. Upon completion,

the student will be able to demonstrate specified skills.

## **CIS 297 CO-OP FOR CIS II (3T) 3 credits**

This course is part of a series wherein the student works in a degree/program related job. Emphasis is placed on student's work experience as it integrates academic knowledge with practical application through exposure to computer practices in an informational technologies environment. The grade is based on the employer's evaluation of each student's productivity, content of a descriptive report submitted by the student, and student development and assessment of a learning contract.

## **CIS 299 DIRECTED STUDIES IN COMPUTER SCIENCE (3T) 3 credits**

### **PREREQUISITE: Permission of instructor**

This course allows independent study under the direction of an instructor. Topics to be included in the course material will be approved by the instructor prior to or at the beginning of the class. Upon completion, the student will be able to demonstrate knowledge of the topics as specified by the instructor.

## CRIMINAL JUSTICE (CRJ)

## **CRJ 100 INTRODUCTION TO CRIMINAL JUSTICE (3T) 3 credits**

This course surveys the entire criminal justice process from law enforcement to the administration of justice through corrections. It discusses the history and philosophy of the system and introduces various career opportunities.

## **CRJ 110 INTRODUCTION TO LAW ENFORCEMENT (3T) 3 credits**

This course examines the history and philosophy of law enforcement, as well as the organization and jurisdiction of local, state, and federal agencies. It includes the duties and functions of law enforcement officers.

## **CRJ 130 INTRODUCTION TO LAW AND JUDICIAL PROCESS (3T) 3 credits**

This course provides an introduction to the basic elements of substantive and procedural law and the stages in the judicial process. It includes an overview of state and federal court structure.

## **CRJ 140 CRIMINAL LAW AND PROCEDURE (3T) 3 credits**

This course examines both substantive and procedural law. The legal elements of various crimes are discussed, with emphasis placed on the contents of the Alabama Code. Areas of criminal procedure essential to the criminal justice profession are covered.

## **CRJ 146 CRIMINAL EVIDENCE (3T) 3 credits**

This course considers the origins of the law of evidence and

current rules of evidence. Types of evidence, their definitions and uses are covered, as well as the functions of the court regarding evidence.

**CRJ 150 INTRODUCTION TO CORRECTIONS (3T) 3 credits**

This course provides an introduction to the philosophical and historical foundations of corrections in America. Incarceration and some of its alternatives are considered.

**CRJ 157 COMMUNITY BASED CORRECTIONS (3T) 3 credits**

This course examines various forms of community corrections and alternative sentences. Probation, parole, halfway houses, work release, community service, electronic monitoring and camps are among the programs considered.

**CRJ 160 INTRODUCTION TO SECURITY (3T) 3 credits**

This course surveys the operation, organization and problems in providing safety and security to business enterprises. Private, retail and industrial security are covered.

**CRJ 166 PRIVATE AND RETAIL SECURITY (3T) 3 credits**

This course surveys the legal foundations, regulations, training, and other issues in private security. Typical offenses, laws, and law enforcement strategies common in the field are covered. Methods of loss prevention are examined.

**CRJ 168 INTERNATIONAL SECURITY (3T) 3 credits**

This course provides an understanding of the security implications of international programs, commercial sales, the interrelationship of the information disclosure and technology transfer, the International Traffic in Arms Regulations, and the Export Administration Regulations.

**CRJ 169 SECURITY MANAGEMENT (3T) 3 credits**

This course introduces the student to sound security management theories, principles, budgeting, communications, and education.

**CRJ 170 INTRODUCTION TO PHYSICAL SECURITY (3T) 3 credits**

This course provides an overview of the protection of people, property, and facilities through the use of security forces, systems, and procedures.

**CRJ 171 SECURITY RISK MANAGEMENT (3T) 3 credits**

This course deals with the identification of assets, threats, and vulnerabilities, and the development of countermeasures.

**CRJ 208 INTRODUCTION TO CRIMINOLOGY (3T) 3 credits**

This course delves into the nature and extent of crime in the United States as well as criminal delinquent behavior and theories of causation. The study includes criminal personalities, principles of prevention, control and treatment.

**CRJ 209 JUVENILE DELINQUENCY (3T) 3 credits**

This course examines the causes of delinquency. It also reviews programs of prevention and control of juvenile delinquency as well as the role of the courts.

**CRJ 216 POLICE ORGANIZATION AND ADMINISTRATION (3T) 3 credits**

This course examines the principles of organization and administration of law enforcement agencies. Theories of management, budgeting, and various personnel issues are covered.

**CRJ 220 CRIMINAL INVESTIGATION (3T) 3 credits**

This course explores the theory and scope of criminal investigation. The duties and responsibilities of the investigator are included. The techniques and strategies used in investigation are emphasized.

**CRJ 230 CRIMINALISTICS (3T) 3 credits**

This course surveys the different techniques of scientific investigation. Emphasis is given to ballistics, photography, fingerprints, DNA, trace evidence, body fluids, casts and the like.

**CRJ 256 CORRECTIONAL REHABILITATION (3T) 3 credits**

This course surveys the different methods used in the rehabilitation of public offenders. Topics include individual and group counseling, education, recreation, religion, drug treatment, and vocational programs.

**CRJ 280 INTERNSHIP IN CRIMINAL JUSTICE (1-3T) 1-3 credits**

**PREREQUISITE: Permission of instructor**

This course involves practical experience with a criminal justice agency under faculty supervision. Permission of the instructor is required. This course may be repeated with the approval of the department head.

**CRJ 290 SELECTED TOPICS - SEMINAR IN CRIMINAL JUSTICE (1-3T) 1-3 credits**

This course involves reading, research, writing, and discussion of selected subjects relating to criminal justice. Various contemporary problems in criminal justice are analyzed. This course may be repeated with approval of the department head.

## DENTAL ASSISTING (DAT)

### **DAT 100 INTRODUCTION TO DENTAL ASSISTING (2T) 2 credits**

**PREREQUISITE:** Admission to the Dental Assisting Program

**COREQUISITE:** DAT 101, DAT 102, DAT 103, and DAT 104

This course is designed to provide an introduction to dentistry and the history of dentistry, dental equipment, dental auxiliaries, psychology application to dentistry, personal and certification requirements, legal and ethical considerations, and work ethics and communication skills. Emphasis is placed on the Alabama Dental Practice Act and OSHA Standards. Upon completion, students should be able to discuss basic aspects of dentistry.

### **DAT 101 PRE-CLINICAL PROCEDURES I (2T, 1S) 3 credits**

**PREREQUISITE:** Admission to the Dental Assisting Program

**COREQUISITES:** DAT 100, DAT 102, DAT 103, and DAT 104

This course is designed to introduce chairside assisting including concepts of four-handed dentistry, sterilization techniques, dental instruments, anesthesia, and operative dentistry. Emphasis will be placed on preparation of the student for clinical dental assisting. Upon completion, the student should be able to perform dental assisting skills in a clinical setting.

### **DAT 102 DENTAL MATERIALS (2T, 1S) 3 credits**

**PREREQUISITE:** Admission to the Dental Assisting Program

**COREQUISITES:** DAT 100, DAT 101, DAT 103, and DAT 104

This course is designed to study the characteristics, manipulation, and application of dental materials ordinarily used in the dental office. Students will be given intra and extra-oral technical tasks to perform. Upon completion, students should be able to take and pour alginate impressions, trim study models, construct custom trays and temporary crowns, prepare and place restorative material, and manipulate cements and impression materials.

### **DAT 103 ANATOMY AND PHYSIOLOGY FOR DENTAL ASSISTING (3T) 3 credits**

**PREREQUISITE:** Admission to Dental Assisting Program

**COREQUISITE:** DAT 100, DAT 101, DAT 102, and DAT 104

This course is designed to study dental anatomy and the structure of the head and neck with a basic understanding of body structure and function. Emphasis will be placed on tooth and root morphology, and embryological and histological correlations will provide a foundation essential to an understanding of dental health. Upon completion, students should be able to discuss and identify the basic structure and function of the human body specifically the head, neck, and dentition.

### **DAT 104 BASIC SCIENCES FOR DENTAL ASSISTING (2T) 2 credits**

**PREREQUISITE:** Admission to Dental Assisting Program

**COREQUISITE:** DAT 100, DAT 101, DAT 102, DAT 103

This course is designed to study basic microbiology, pathology, pharmacology, and medical emergencies. Emphasis is placed on the correlation of these sciences to the practice of dentistry. Upon completion, students should be able to apply basic science to the dental field.

### **DAT 111 CLINICAL PRACTICE I (1T, 4C) 5 credits**

**PREREQUISITE:** DAT 100, DAT 101, DAT 102, DAT 103 and DAT 104

**COREQUISITE:** DAT 112, DAT 113, and DAT 116

This course is designed to allow the student the opportunity for clinical observation and practical work experience in clinical settings under the supervision of a licensed dentist. Emphasis will be placed on the basic skills of chairside assisting. Upon completion, students should be able to demonstrate basic skills in the area of chairside assisting.

### **DAT 112 DENTAL RADIOLOGY (2T, 1S) 3 credits**

**PREREQUISITE:** DAT 100, DAT 101, DAT 102, DAT 103 and DAT 104

**COREQUISITE:** DAT 111, DAT 113, and DAT 116

This course is designed to cover the essential knowledge of radiographic technique for the practice of dentistry. Students will be taught to produce diagnostically acceptable intra and extra-oral radiographs with emphasis being placed on x-ray properties, generation of x-rays, film processing, infection control, quality assurance, intraoral radiographic technique and image characteristics. Upon completion, students should be able to expose, process, and mount radiographs for diagnostic purposes under the direct supervision of a licensed dentist.

### **DAT 113 DENTAL HEALTH EDUCATION (2T) 2 credits**

**PREREQUISITE:** DAT 100, DAT 101, DAT 102, DAT 103 and DAT 104

**COREQUISITE:** DAT 111, DAT 112, and DAT 116

This course is designed to introduce the student to the basic principles of nutrition, preventive dentistry, and dental health education. Emphasis will be placed on the philosophy of preventive dentistry including: oral hygiene, patient motivation and management, and methods of oral health education. Upon completion, students should be able to apply the basic principles of nutrition and preventive dentistry.

### **DAT 114 DENTAL OFFICE ADMINISTRATION (3T, 1L) 4 credits**

This course is designed to introduce basic dental office procedures. Emphasis Includes appointment and recall systems, financial records, accounting procedures, insurance claims, filing systems, purchasing and inventory supplies and equipment, and the utilization of computers to perform business office procedures. Upon completion, students should be able to demonstrate efficiency in dental office administrative procedures.

### **DAT 116 PRECLINICAL PROCEDURES II (3T) 3 credits**

**PREREQUISITE:** DAT 100, DAT 101, DAT 102, DAT 103 and DAT 104

**COREQUISITE: DAT 111, DAT 112, and DAT 113,**

This course is a continuation of Pre-Clinical Procedures I. Emphasis is placed on dental specialties. Upon completion, the student should be able to discuss and identify dental specialty procedures and instrumentation.

**DAT 122 CLINICAL PRACTICE II (4C) 4 credits**  
**PREREQUISITE: DAT 100, DAT 101, DAT 102, DAT 103, DAT 104, DAT 111, DAT 112, DAT 113 and DAT 116**  
**COREQUISITE: DAT 123**

This course is designed to provide the student the opportunity to develop advanced dental assisting skills in chairside dental assisting procedures, radiology, team work, communication skills and administrative duties. Emphasis will be placed on clinical procedures. Upon completion, students should be able to demonstrate proficiency in the area of chairside assisting.

**DAT 123 DENTAL ASSISTING SEMINAR (4T) 4 credits**  
**PREREQUISITE: DAT 100, DAT 101, DAT 102, DAT 103, DAT 104, DAT 111, DAT 112, DAT 113 and DAT 116**  
**COREQUISITE: DAT 122**

This course is designed to discuss and evaluate the students' clinical experiences and the resume and interview process. Emphasis will be placed on new technology in dental practices as related to dental assisting and the certification exam review. Upon completion, students should be able to successfully complete the Dental Assisting National Board Examination to become a Certified Dental Assistant.

**DESIGN DRAFTING TECHNOLOGY (DDT)**

**DDT 109 INTRODUCTION TO BUILDING INFORMATION - MODELING (BIM) (1T, 6M) 3 credits**

This course covers the basics of building information modeling (BIM). Users are introduced to the concepts of Building Information Modeling and the tools for parametric building design and documentation. Users begin with learning the fundamental features of BIM, and then progress through schematic design, construction documentation, and design visualization. This course offers both imperial and metric hands-on exercises representing real-world architectural design scenarios. This class is designed to teach you the BIM functionality as you would work with it in the design process. Student will begin by learning about the user interface and the BIM commands for design development, followed by those available for construction documentation. Upon completion the student will be able to create basic 3D architectural project models and set them up in working drawings. (Offered Fall Semester)

**DDT 111 FUNDAMENTALS OF DRAFTING AND DESIGN TECHNOLOGY (1T, 4E) 3 credits**

**DDT 124 BASIC TECHNICAL DRAWING (1T, 4E) 3 credits**

**PREREQUISITE: ADM 107 and DDT 111**

This course covers sections, auxiliary views, and basic space geometry. Emphasis will be placed on the theory as well as the mechanics of applying sections, basic dimensioning, auxiliary views, and basic space geometry. (Offered Fall Semester)

**DDT 132 ARCHITECTURAL DRAFTING (1T, 4E) 3 credits**

**PREREQUISITE: ADM 107 and DDT 109**

**It is recommended that students take DDT 114 prior to enrolling in DDT 132 or in the same semester.**

This course in architectural design and drafting introduces basic terminology, concepts and principles of architectural design and drawing. Topics include design considerations, lettering, terminology, site plans, and construction drawings. Upon completion, students should be able to draw, dimension, and specify basic residential architectural construction drawings. (Offered Spring Semester)

**DDT 144 BASIC 3D MODELING (1T, 4E) 3 credits**

**It is recommended that students take DDT 111 prior to enrolling in DDT 144 or in the same semester.**

This course is an introduction to 3D solid modeling techniques utilizing feature-based, constraint-based parametric design. This course encourages the student to visualize parts in the 3D world and have a "design intent" plan for each part in which they will design. Upon completion of the course, students should be able to create basic 3D models and 2D working drawings.

**DDT 193 DRAFTING INTERNSHIP (6E) 3 credits**

**PREREQUISITE: Permission of Instructor**

This course is limited to those who are involved in a structured employment situation that is directly related to the field of drafting and design and is coordinated with the drafting instructor. The student must spend at least 15 hours per week in an activity planned and coordinated jointly by the instructor and the employer. Upon completion, the student will have gained valuable work experience in a well-planned, coordinated training/work situation.

**DDT 213 CIVIL DRAFTING, PLAT MAPS (1T, 4E) 3 credits**

**PREREQUISITE: ADM 107 and DDT 111**

This course introduces the drafting practices, symbols, conventions, and standards utilized in civil engineering contract documents. Topics include site planning, land surveying, topographic surveys, along with civil terminology. Upon

completion, students should be able to draw accurate plat maps giving legal descriptions of land parcels, draw simple site plans, and identify and use proper symbols and conventions on civil engineering drawings. (Offered Summer Semester)

## **DDT 215 GEOMETRIC DIMENSIONING & TOLERANCING (1T, 4E) 3 credits**

**PREREQUISITE:** ADM 107 or ADM 108

**It is recommended that students take DDT 124 prior to enrolling in DDT 215 or in the same semester.**

This course is designed to teach fundamental concepts of size description by geometric methods including appropriate engineering controls. Emphasis is placed on the drawing and application of common geometric dimensioning and tolerancing symbols to engineering drawings as designated by the latest ANSI/ASME Standards. Upon completion, students should be able to use geometric dimensioning and tolerancing symbols in applying size information and manufacturing controls to working drawings. (Offered Fall Semester)

## **DDT 222 ADVANCED ARCHITECTURAL DRAFTING (1T, 4E) 3 credits**

**PREREQUISITE:** DDT 109

This third course in architectural design and drafting continues with advanced architectural plans, including a slant toward light commercial construction. Topics include climate control plans, application of building codes, building materials and finish specifications, cost estimating, and bid specifications. Upon completion, students should be able to apply current techniques in producing advanced-level architectural plans, including residential and light commercial applications. (Offered Spring Semester)

## **DDT 225 STRUCTURAL STEEL DRAFTING (1T, 4E) 3 credits**

**PREREQUISITE:** ADM 107 or ADM 109 and DDT 111

This course covers the theory and practical applications necessary to understand the basic design and terminology of structural steel components used in light commercial buildings. Emphasis is placed on structural steel drafting techniques, bolted and welded connections, framing plans, sections, fabrication and connection details, and bills of material. Upon completion, students should be able to produce engineering and shop drawings incorporating standard shapes, sizes, and details using the A.I.S.C. Manual and incorporating safety practices. (Offered Fall Semester)

## **DDT 234 3D GRAPHICS AND ANIMATION (1T, 4E) 3 credits**

**PREREQUISITE:** DDT 208

This course is designed to challenge the imagination of the student in 3-dimensional problem solving environment. The student will be given a basic introduction to the concepts of 3D design and animation, then apply those concepts to a design project. Upon completion, students should be able to create and animate objects in a 3-dimensional environment.

## **DDT 235 SPECIALIZED CAD (1T, 4E) 3 credits**

**PREREQUISITE:** ADM 114

This course allows the student to plan, execute, and present results of individual projects in specialized CAD topics. Emphasis is placed on enhancing skill attainment in specialized CAD skill sets. The student will be able to demonstrate and apply competencies identified by the instructor.

## **DDT 244 ADVANCED 3D MODELING (1T, 4E) 3 credits**

**PREREQUISITES:** ADM 208

This course is designed to challenge the imagination of the student in a 3-dimensional problem-solving environment. The student will develop to scale computer generated parts in the 3D computer environment. They will apply modeling concepts as Constraints, Photorealistic rendering, motion activated views, introduction to 3D part libraries, add-in software components, plastic model technology and simulations. They will be introduced to the concepts of 3D design and animation, then apply those concepts to a design project. Upon completion, students should be able to create parts in 3D models, produce working drawings and understand basic simulations. Students will also print files to ".stl" format and create parts on a Direct Digital Manufacturing system or prototype. (Offered Spring Semester)

## **DDT 252 MECHANICAL ELECTRICAL & PLUMBING (MEP) ENGINEERING USING BIM (1T, 4E) 3 credits**

**PREREQUISITES:** DDT 109 and ADM 114

This course provides an introduction to the fundamentals of Mechanical, Electrical and Plumbing concepts using the Building Information Modeling (BIM). The instructor will use lecture, discussions, and hands-on practices (based on real customer scenarios) to teach students techniques for initiating a Building Information Model (BIM) project, recommended workflows and basic skills required to layout electrical systems, solving common issues, and use its tools to create and modify discipline specific MEP systems and parametric engineering components. Given a complete architectural building model (as a reference), the student will be able to produce a commercial BIM design that contains functional electrical systems. The student will then be able to extract 2D drawings for construction documents. (Offered Summer Semester)

## **DDT 260 PORTFOLIO (1T, 4E) 3 credits**

**PREREQUISITE:** Permission of Instructor

This course includes the preparation of technical and/or architectural drawings for a portfolio presentation and a resume for portfolio presentation. Hard copy as well as electronic drawings will be discussed, finalized and developed for presentation. Topics include production of a resume and portfolio for presentation during the last semester of coursework. Upon completion, students should be able to prepare and produce a

resume and portfolio for presentation in both hard copy as well as electronic copy. This course should be taken in the student's last two (2) semester in design drafting. (Every Other Semester)

### ECONOMICS (ECO)

**ECO 231 PRINCIPLES OF MACROECONOMICS (3T) 3 credits**

This course is an introduction to macroeconomic theory, analysis, and policy applications. Topics include the following: scarcity, demand and supply, national income analysis, major economic theories concerning monetary and fiscal policies as stabilization measures, the banking system, and other economic issues or problems including international trade.

**ECO 232 PRINCIPLES OF MICROECONOMICS (3T) 3 credits**

**PREREQUISITE: ECO 231 with a grade of "C" or higher.**  
This course is an introduction of the microeconomic theory, analysis, and applications. Topics include scarcity, the theories of consumer behavior, production and cost, markets, output and resource pricing, and international aspects of microeconomics.

### ENGINEERING (EGR)

**EGR 101 ENGINEERING FOUNDATIONS (2T, 2E) 3 credits**  
**COREQUISITE: MTH 113**

This course introduces students to engineering as a profession, basic engineering skills, and the design process. The course includes components to develop teaming and oral and written communication skills. The course also provides an introduction to computer tools used by engineers (e.g., spreadsheet, word processing, presentation software, Internet).

**EGR 125 MODERN GRAPHICS FOR ENGINEERS (1T, 4E) 3 credits**  
**PREREQUISITE: MTH 125**

This course provides an introduction to manual and computer-assisted techniques of graphic communication employed by professional engineers. Topics include lettering; instrumental and computer-aided drafting; technical sketching; orthographic projection; pictorial, sectional, and auxiliary views; and dimensioning. This course also introduces students to the concepts and practices involved in using high-level computer environments to solve engineering problems. Programming environments such as MATLAB will be used.

**EGR 220 ENGINEERING MECHANICS-STATICS (3T) 3 credits**  
**COREQUISITE: MTH 227**  
**PREREQUISITE: PHY 213**

This course includes vector algebra, force and moment systems, equilibrium of force systems, trusses, friction and property of surfaces.

**EGR 236 ENGINEERING MECHANICS-DYNAMICS (3T) 3 credits**

**PREREQUISITE: EGR 220**

This course includes kinematics of particles, plane kinematics of rigid bodies, kinetics of particles and rigid bodies by Newton's Laws; principles of work-energy and impulse-momentum.

### ELECTRICAL TECHNOLOGY (ELT)

**ELT 108 DC FUNDAMENTALS (1T, 4E) 3 credits**

**PREREQUISITE: MTH 092 OR MTH 098**

**COREQUISITE: ELT 109**

This course provides a study of atomic theory, direct current (DC), properties of conductors and insulators, direct current characteristics of series, parallel, and series parallel circuits. Inductors and capacitors are introduced and their effects on DC circuits are examined. Students are prepared to analyze complex DC circuits, solve for unknown circuits variables and to use basic electronic test equipment.

**ELT 109 AC FUNDAMENTALS (1T, 4E) 3 credits**

**PREREQUISITE: MTH 092 or MTH 098**

**COREQUISITE: ELT 108**

This course provides a study of the theory of alternating current (AC). Students are prepared to analyze complex AC circuit configurations with resistor, capacitors, and inductors in series and parallel combinations. Upon completion, students should be able to design AC circuits and explain the function of alternating circuits such as RLC, impedance, phase relationships and power factor. This is a CORE course.

**ELT 110 WIRING METHODS (1T, 4E) 3 credits**

**PREREQUISITE: ELT 108 AND ELT 109**

This course is a study of various tasks, wiring methods, materials, and associated NEC (National Electric Code) requirements that students will be required to work with in residential and commercial wiring courses.

**ELT 114 RESIDENTIAL WIRING METHODS (2T, 3M) 3 credits**

**PREREQUISITE: ELT 110**

This course is a study of residential wiring practices and methods, the NEC requirements and residential blueprint interpretations.

**ELT 117 AC/DC MACHINES (1T, 4E) 3 credits**

**PREREQUISITES: ELT 108 AND ELT 109**

This course covers the theory and operation of DC motors single and three phase AC motors and the labs will reinforce this knowledge. Emphasis is placed on the various types of single and three phase motors, wiring diagrams, starting devices, and practical application in lab. This is a CORE course.

**ELT 118 COMMERCIAL/INDUSTRIAL WIRING I**

- (1T, 4E) 3 credits**  
**PREREQUISITE: ELT 110**  
This course focuses on principles and applications of commercial and industrial wiring. Topics include electrical safety practices, an overview of National Electric Code requirements as applied to commercial and industrial wiring, conduit bending, circuit design, pulling cables, transformers, switch gear, and generation principles.
- ELT 209 MOTOR CONTROLS 1 (1T, 4E) 3 credits**  
**PREREQUISITE: ELT 108 AND ELT 109**  
This course covers the use of motor control symbols, magnetic motor starters, running overload protection, push-button stations, sizing of magnetic motor starters and overload protection, and complex ladder diagrams of motor control circuits. Topics include sizing magnetic starters and overload protection, the use of push-button stations, ladder diagrams, and magnetic motor starters in control of electric motors, wye-delta starting, part start winding, resistor starting and electric starting devices. Upon completion, students should be able to understand the operation of motor starters, overload protection, interpret ladder diagrams using push-button stations and understand complex motor control diagrams.
- ELT 212 MOTOR CONTROLS II (1T, 4E) 3 credits**  
**PREREQUISITE: ELT 209**  
This course covers complex ladder diagrams of motor control circuits and the uses of different motor starting techniques. Topics include wye-delta starting, part start winding, resistor starting and electronic starting devices. Upon completion, the students should be able to understand and interpret the more complex motor control diagrams and understand the different starting techniques of electrical motors.
- ELT 231 INTRODUCTION TO PROGRAMMABLE CONTROLLERS (2T, 3M) 3 credits**  
**PREREQUISITE: ELT 209**  
This course provides an introduction to programmable logic controllers. Emphasis is placed on, but not limited to, the following: PLC hardware and software, numbering systems, installation, and programming. Upon completion, students must demonstrate their ability by developing, loading, debugging, and optimizing PLC programs.
- ELT 232 ADVANCED PROGRAMMABLE CONTROLLERS (2T, 3M) 3 credits**  
**PREREQUISITES: ELT 231**  
This course includes the advanced principals of PLC's including hardware, programming, and troubleshooting. Emphasis is placed on developing advanced working programs, and troubleshooting hardware and software communication problems. Upon completion, students should be able to demonstrate their ability in developing programs and troubleshooting the system.

- ELT 241 NATIONAL ELECTRIC CODE (3T) 3 credits**  
**PREREQUISITE: ELT 108 and ELT 109**  
This course introduces students to the National Electric Code. Emphasis is placed on locating and interpreting needed information within the NEC code manual. Upon completion, students should be able to locate code requirements for a specific electrical installation.

## EMERGENCY MEDICAL SERVICES (EMS)

- EMS 100 CARDIOPULMONARY RESUSCITATION I (1T) 1 credit**  
**PREREQUISITE: As required by program.**  
This course provides students with concepts as related to areas of basic life support to include coronary artery disease, prudent heart living, symptoms of heart attack, adult one-and-two rescuer CPR, first aid for choking, pediatric basic life support, airway adjuncts, EMS system entry access, automated external defibrillation (AED), and special situations for CPR. Upon course completion, students should be able to identify situations requiring action related to heart or breathing conditions and effectively implement appropriate management for each condition. Students successfully completing this course will receive appropriate documentation of course completion.
- EMS 103 FIRST AID (1T) 1 credit**  
**PREREQUISITE: Current training in CPR and/or as required by program.**  
This course introduces students to initial first aid care. Topics include scene safety, universal precautions, activation of the EMS system, assessment, airway/breathing/circulation, shock/injuries/bleeding, medical emergencies, and altered level of consciousness. Upon course completion, students should have knowledge to manage various emergencies requiring first aid techniques.
- EMS 106 MEDICAL TERMINOLOGY FOR HEALTH PROFESSIONS (2T) 2 credits**  
**PREREQUISITE: As required by program.**  
This course provides students with a survey of words, terms, and descriptions commonly used in health related professions. The course includes spelling, pronunciation, and meaning of prefixes, suffixes, roots, and terms. Students may have the opportunity to utilize computer assisted instruction for learning various medical terms. Upon course completion, students should have the knowledge to associate a variety of medical terms with their meaning and utilize medical terms to effectively communicate with other health professionals.
- EMS 107 EMERGENCY VEHICLE OPERATOR AMBULANCE (1T) 1 credit**  
**PREREQUISITE: Must present a valid driver's license as required by program.**

The Emergency Vehicle Operator Course - Ambulance provides the student with training as contained in the current National Standard Training Curriculum (NSTC) for the Emergency Vehicle Operator Course (EVOC) Ambulance. The course provides the knowledge and skill practice necessary for individuals to learn how to safely operate all types of ambulances. Topics include introduction to the NSTC for ambulance operators; legal aspects of ambulance operation; communication and reporting; roles and responsibilities; ambulance types and operation; ambulance inspection, maintenance, and repair; navigation and route planning; basic maneuvers and normal operating situations; operations in emergency mode and unusual situations, special considerations in safety; and the run. Completion of specific student competencies, utilizing NSTC guidelines, are required for successful completion of this course. NOTE: To qualify for licensure status as an ambulance driver in the State of Alabama, students must successfully complete this course and meet additional requirements as required by the Alabama Department of Public Health.

**EMS 118 EMERGENCY MEDICAL TECHNICIAN (6T, 3L) 9 credits**

This course is required to apply for certification as an Emergency Medical Technician. This course provides students with insights into the theory and application of concepts related to the profession of emergency medical services. Specific topics include: EMS preparatory, airway maintenance, patient assessment, management of trauma patients, management of medical patients, treating infants and children, and various EMS operations. This course is based on the NHTSA National Emergency Medical Services Education Standards.

**EMS 119 EMERGENCY MEDICAL TECHNICIAN CLINICAL (1C) 1 credit**

This course is required to apply for certification as an EMT. This course provides students with clinical education experiences to enhance knowledge and skills learned in the EMS 118, Emergency Medical Technician Theory and Lab. This course helps students prepare for the National Registry Exam.

**EMS 150 24 HOUR EMT REFRESHER (2T) 2 credits**

This course provides students with theory in review of the current National Standard Training Curriculum (NSTC) for the EMT. It also serves as a transition or bridge course when a new national curriculum is adopted. This course contains specific content areas as defined by the NHTSA. Students are required to complete specific competencies, as outlined by the NHTSA, for successful course completion.

**EMS 155 ADVANCED EMERGENCY MEDICAL TECHNICIAN (5T, 3L) 8 credits**

**PREREQUISITE: EMS 118 and EMS 119**  
**COREQUISITE: EMS 156**

This course is required to apply for certification as an Advanced Emergency Medical Technician (AEMT). This course introduces

the theory and application of concepts related to the profession of the AEMT. The primary focus of the AEMT is to provide basic and limited advance emergency medical care and transportation for critical and emergent patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transportation. Topics include: extending the knowledge of the EMT to a more complex breadth and depth, intravenous access and fluid therapy, medication administration, blind insertion airway devices, as well as the advanced assessment and management of various medical illnesses and traumatic injuries. This course is based on the NHTSA National Emergency Medical Services Education Standards. Requires licensure or eligibility for licensure at the EMT level and EMS 156 must be taken as a co-requisite.

**EMS 156 ADVANCED EMERGENCY MEDICAL TECHNICIAN CLINICAL (2C) 2 credits**

**PREREQUISITES: EMS 118 and EMS 119**  
**COREQUISITE: EMS 155**

This course is required to apply for certification as an Advanced Emergency Medical Technician (AEMT). This course provides students with clinical education experiences to enhance knowledge and skills learned in EMS 155. This course helps prepare students for the National Registry AEMT exam. The student will have the opportunity to use the basic and advanced skills of the AEMT in the clinical and field settings under the direct supervision of licensed healthcare professionals. Requires licensure or eligibility for licensure at the EMT level and EMS 155 must be taken as a co-requisite.

**EMS 240 PARAMEDIC OPERATIONS (1T, 1L) 2 credits**

**PREREQUISITE: EMS 189 or BIO 201**  
**COREQUISITES: EMS 241, EMS 242, EMS 243 and EMS 244**

This course focuses on the operational knowledge and skills needed for safe and effective patient care within the paramedic's scope of practice. Content areas include: research, paramedic roles and responsibilities, well-being of the paramedic, illness and injury prevention, medical-legal-ethical issues, therapeutic communications, medical terminology, life span development, ambulance operations, medical incident command, rescue awareness and operations, hazardous materials incidents, crime scene awareness, and Alabama EMS laws and rules.

**EMS 241 PARAMEDIC CARDIOLOGY (2T, 1L) 3 credits**

**PREREQUISITES: EMS 189 or BIO 201**  
**COREQUISITES: EMS 240, EMS 242, EMS 243 and EMS 244**

This course introduces the cardiovascular system, cardiovascular electrophysiology, and electrocardiographic monitoring. This course further relates pathophysiology and assessment findings to the formulation of field impressions and implementation of treatment plans for specific cardiovascular conditions. Content areas include: cardiovascular anatomy and physiology, cardiovascular electrophysiology, electrocardiographic monitoring, rhythm analysis, and pre-hospital 12-lead

electrocardiogram monitoring and interpretation, assessment of the cardiovascular patient, pathophysiology of cardiovascular disease and techniques of management including appropriate pharmacologic agents and electrical therapy.

**EMS 242 PARAMEDIC PATIENT ASSESSMENT (2T, 1L) 3 credits**

**PREREQUISITES:** EMS 189 or BIO 201

**COREQUISITES:** EMS 240, EMS 241, EMS 243 and EMS 244

This course provides the knowledge and skills needed to perform a comprehensive patient assessment, make initial management decisions, and to communicate assessment findings and patient care verbally and in writing. Content areas include: airway management, history taking, and techniques of the physical examination, patient assessment, clinical decision making, communications, documentation and assessment based management.

**EMS 243 PARAMEDIC PHARMACOLOGY (1L) 1 credit**

**PREREQUISITES:** EMS 189 or BIO 201

**COREQUISITES:** EMS 240, EMS 241, EMS 242 and EMS 244

This course introduces basic pharmacological agents and concepts with an emphasis on drug classifications and the knowledge and skills required of a paramedic for safe, effective medication administration. Content areas include: general principles of pharmacology and pharmacologic pathophysiology; venous and intraosseous access techniques, the metric and apothecary system; computation of dosage and solution problems, administration of pharmacologic agents; pharmacokinetics and pharmacodynamics, and nasogastric tube placement.

**EMS 244 PARAMEDIC CLINICAL I (1C) 1 credit**

**PREREQUISITES:** EMS 189 or BIO 201

**COREQUISITES:** EMS 240, EMS 241, EMS 242 and EMS 243

This course is directed toward the application of knowledge and skills developed in didactic and skills laboratory experiences to the clinical setting. Theory and skills are applied to a variety of patient situations in the clinical setting, with a focus on patient assessment and management, advanced airway management, electro-therapy, I.V./I.O. initiation and medication administration.

**EMS 245 PARAMEDIC MEDICAL EMERGENCIES (2T, 1L) 3 credits**

**PREREQUISITES:** EMS 240, EMS 241, EMS 243 and EMS 244

**COREQUISITES:** EMS 246, EMS 247 and EMS 248

This course relates pathophysiology and assessment findings to the formulation of field impressions and implementation treatment plans for specific medical conditions. Content areas include: pulmonology, neurology, gastroenterology, renal/urology, toxicology, hematology, environmental conditions, infectious and communicable diseases, abuse and assault, patients with special challenges, and acute interventions for the chronic care patient.

**EMS 246 PARAMEDIC TRAUMA MANAGEMENT (2T, 1L) 3 credits**

**PREREQUISITES:** EMS 240, EMS 241, EMS 243 and EMS 244

**COREQUISITES:** EMS 245, EMS 247 and EMS 248

This course relates pathophysiology and assessment findings to the formulation of field impressions and implementation of treatment plans for trauma patients. Content areas include the pathophysiology, assessment, and management of trauma as related to: trauma systems; mechanisms of injury; hemorrhage and shock; soft tissue injuries; burns; and head, facial, spinal, thoracic, abdominal, and musculoskeletal trauma.

**EMS 247 PARAMEDIC SPECIAL POPULATIONS (1T, 1L) 2 credits**

**PREREQUISITES:** EMS 240, EMS 241, EMS 242, EMS 243, EMS 244

**COREQUISITE:** EMS 245, EMS 246 and EMS 248

This course relates pathophysiology and assessment findings to the formulation of field impressions and implementation of treatment plans for specific medical conditions. Content areas include: endocrinology, allergies and anaphylaxis, behavioral/psychiatric conditions, gynecology, obstetrics, neonatology, pediatrics, and geriatrics. In the clinical setting, theory and skills are applied to a variety of medical situations across the life span of the patient, with a focus on communication with and management of cardiac, acute care, psychiatric/behavioral, obstetrical, newborn, pediatric, geriatric, and acute interventions for chronic care patients, and patients with special challenges.

**EMS 248 PARAMEDIC CLINICAL II (3C) 3 credits**

**PREREQUISITES:** EMS 240, EMS 241, EMS 242, EMS 243, EMS 244

**COREQUISITE:** EMS 245, EMS 246 and EMS 247

This course is directed toward the application of knowledge and skills developed in didactic and skills laboratory experiences to the clinical setting. Theory and skills are applied to a variety of medical and trauma situations across the life span of the patient, with a focus on communication with and management of trauma, cardiac, acute care, psychiatric/behavioral, obstetrical, newborn, pediatric, geriatric, and acute interventions for chronic care patients, and patients with special challenges.

**EMS 253 PARAMEDIC TRANSITION TO THE WORKFORCE (1T, 1L) 2 credits**

**PREREQUISITES:** EMS 240, EMS 241, EMS 242, EMS 243, EMS 244, EMS 245, EMS 246, EMS 247 AND EMS 248

**COREQUISITES:** EMS 254, EMS 255 and EMS 256

This course is designed to meet additional state and local educational requirements for paramedic practice. Content may include: pre-hospital protocols, transfer medications, topics in critical care and transport, systems presentation, and/or national standard certification courses as dictated by local needs or state requirement.

**EMS 254 ADVANCED COMPETENCIES FOR THE PARAMEDIC (1T, 1L) 2 credits**

**PREREQUISITES:** EMS 240, EMS 241, EMS 242, EMS 243, EMS 244, EMS 245, EMS 246, EMS 247 AND EMS 248  
**COREQUISITES:** EMS 253, EMS 255 and EMS 256

This course is designed to assist students in preparation for the paramedic licensure examination. Emphasis is placed on validation of knowledge and skills through didactic review, skills lab performance, and/or computer simulation and practice testing. Upon course completion, students should be sufficiently prepared to sit for the paramedic licensure examination.

**EMS 255 PARAMEDIC FIELD PRECEPTORSHIP (5C) 5 credits**

**PREREQUISITES:** EMS 240, EMS 241, EMS 242, EMS 243, EMS 244, EMS 245, EMS 246, EMS 247 AND EMS 248  
**COREQUISITES:** EMS 253, EMS 254 and EMS 256

This course provides field experiences in the pre-hospital setting with advanced life support EMS units. Under the direct supervision of a field preceptor, students synthesize cognitive knowledge and skills developed in the skills laboratory and hospital clinical to provide safe and effective patient care in the pre-hospital environment. Upon course completion, students should have refined and validated their patient care practices to provide safe and effective patient care over a broad spectrum of patient situations and complaints.

**EMS 256 PARAMEDIC TEAM LEADERSHIP (1C) 1 credit**

**PREREQUISITES:** EMS 240, EMS 241, EMS 242, EMS 243, EMS 244, EMS 245, EMS 246, EMS 247 AND EMS 248  
**COREQUISITES:** EMS 253, EMS 254 and EMS 255

This course is designed to evaluate students' ability to integrate didactic, psychomotor skills, clinical, and field internship instruction to serve as a competent entry-level paramedic. This final evaluative (rather than instructional) course focuses on students' professional attributes and integrative competence in clinical decision-making and team leadership in the pre-hospital setting. Upon course completion, students should have demonstrated adequate knowledge and skills, professional attitudes and attributes, clinical decision-making and team leadership abilities to effectively function as a competent entry-level paramedic.

**EMS 257 ADVANCED PHARMACOLOGY (IT, IL) 2 Credits**

This course introduces basic and advanced pharmacological agents and concepts, with an emphasis on drug classifications and the knowledge and skills required for safe, effective medication administration. Medication pharmacokinetics and pharmacodynamics will be evaluated for most medicines used in the pre-hospital setting. Students will also learn how to establish various routes of medication administration and procedures for administering medications via these routes. Students will also demonstrate mathematic computations for various drug and solution dose administration problems.

**EMS 266 ADVANCED CV LIFE SUPPORT (1T) 1 credit**

The Advanced Cardiovascular Life Support Provider Course provides students with concepts related to advanced cardiovascular life support. Content areas include acute myocardial infarction, stroke, cardiovascular pharmacology, electrophysiology, various rhythm disturbances, and techniques of management of cardiovascular emergencies. The course is taught in accordance with national standards and requires specific student competencies. Students successfully completing this course will receive appropriate documentation of course completion.

**EMS 267 INTERNAL TRAUMA LIFE SUPPORT (1T) 1 credit**

This course provides students with theory and demonstration in advanced trauma care and management. Content areas include mechanism of trauma, trauma assessment, airway -breathing-circulation management, trauma to various portions of the body, multiple system trauma, and load-and-go situations. The course is taught in accordance with national standards and requires specific student competencies. Students successfully completing this course will receive appropriate documentation of course completion.

**EMS 269 PEDIATRIC MEDICAL LIFE SUPPORT (1T) 1 credit**

This course provides students with theory and simulated case studies in pediatric care. Content areas include recognition of pediatric pre-arrest conditions; shock; basic life support; oxygenation and airway control; newborn resuscitation; essentials in pediatric resuscitation; dysrhythmia recognition and management; vascular access; and use of medications. This course is taught in accordance with national standards and requires specific student competencies. Students successfully completing this course will receive appropriate documentation of course completion.

**EMS 273 EKG INTERPRETATION (2T) 2 credits**

This course is designed for students in health related professions desiring the knowledge to interpret singular lead electrocardiograms. The course provides concepts in the interpretation of electrocardiograms to include an overview of the electrical conduction of the heart as well as the identification of all categories of dysrhythmias. Upon course completion, students should be able to identify various types of cardiac rhythms.

**ENGLISH (ENG)**

**ENG 101 ENGLISH COMPOSITION I (3T) 3 credits**

**PREREQUISITE:** Grade of "C" or better in ENR 094 or satisfactory ACT, SAT, or placement score  
English Composition I provides instruction and practice in

the writing of at least six (6) extended compositions and the development of analytical and critical reading skills and basic reference and documentation skills in the composition process. English Composition I may include instruction and practice in library usage.

**ENG 102 ENGLISH COMPOSITION II**  
(3T) **3 credits**  
**PREREQUISITE: A grade of "C" or better in ENG 101 or equivalent**

English Composition II provides instruction and practice in the writing of six (6) formal, analytical essays, at least one of which is a research project using outside sources and/or references effectively and legally. Additionally, English Composition II provides instruction in the development of analytical and critical reading skills in the composition process. English Composition II may include instruction and practice in library usage.

**ENG 130 TECHNICAL REPORT WRITING**  
(3T) **3 credits**  
**PREREQUISITE: A grade of "C" or better in ENG 101 or equivalent**

This course provides instruction in the production of technical and/or scientific reports. Emphasis is placed on research, objectivity, organization, composition, documentation, and presentation of the report. Students will demonstrate the ability to produce a written technical or scientific report by following the prescribed process and format.

**ENG 251 AMERICAN LITERATURE I**  
(3T) **3 credits**  
**PREREQUISITE: A grade of "C" or better in ENG 102 or equivalent**

This course is a survey of American literature from its inception to the middle of the nineteenth century. Emphasis is placed on representative works and writers of this period and on the literary, cultural, historical, and philosophical forces that shaped these works and that are reflected in them. Upon completion and in written compositions, students will be able to interpret the aesthetic and thematic aspects of these works, relate the works to their historical and literary contexts, and understand relevant criticism and research.

**ENG 252 AMERICAN LITERATURE II**  
(3T) **3 credits**  
**PREREQUISITE: A grade of "C" or better in ENG 102 or equivalent**

This course is a survey of American literature from the middle of the nineteenth century to the present. Emphasis is placed on representative works and writers of this period and on the literary, cultural, historical, and philosophical forces that shaped these works and that are reflected in them. Upon completion and in written composition, students will be able to interpret the aesthetic and thematic aspects of these works, relate the works to their historical and literary contexts, and understand relevant criticism and research.

**ENG 261 ENGLISH LITERATURE I**  
(3T) **3 credits**  
**PREREQUISITE: A grade of "C" or better in ENG 102 or equivalent**

This course is a survey of English literature from the Anglo-Saxon period to the Romantic Age. Emphasis is placed on representative works and writers of this period and on the literary, cultural, historical, and philosophical forces that shaped these works and that are reflected in them. Upon completion and in written compositions, students will be able to interpret the aesthetic and thematic aspects of these works, relate the works to their historical and literary contexts, and understand relevant criticism and research.

**ENG 262 ENGLISH LITERATURE II**  
(3T) **3 credits**  
**PREREQUISITE: A grade of "C" or better in ENG 102 or equivalent**

This course is a survey of English literature from the Romantic Age to the present. Emphasis is placed on representative works and writers of this period and on the literary, cultural, historical, and philosophical forces that shaped these works and that are reflected in them. Upon completion and in written compositions, students will be able to interpret the aesthetic and thematic aspects of these works, relate the works to their historical and literary contexts, and understand relevant criticism and research.

**ENG 271 WORLD LITERATURE I**  
(3T) **3 credits**  
**PREREQUISITE: A grade of "C" or better in ENG 102 or equivalent**

This course is a study of selected literary masterpieces from Homer to the Renaissance. Emphasis is placed on major representative works and writers of this period and on the literary, cultural, historical and philosophical forces that shaped these works and that are reflected in them. Upon completion and in written compositions, students will be able to interpret the aesthetic and thematic aspects of these works, relate the works to their historical and literary contexts, and understand relevant criticism and research.

**ENG 272 WORLD LITERATURE II**  
(3T) **3 credits**  
**PREREQUISITE: A grade of "C" or better in ENG 102 or equivalent**

This course is a study of selected literary masterpieces from the Renaissance to the present. Emphasis is placed on major representative works and writers of this period and on the literary, cultural, historical, and philosophical forces that shaped these works and that are reflected in them. Upon completion and in written compositions, students will be able to interpret the aesthetic and thematic aspects of these works, relate the works to their historical and literary contexts, and understand relevant criticism and research.

**ENG 297 AFRICAN-AMERICAN LITERATURE (3T) 3 credits**  
**PREREQUISITE: A grade of "C" or better in ENG 102 or equivalent**

This course is a study of literature produced by representative African Americans from the eighteenth century to the present. The course emphasizes the diversity of themes and techniques found in these works and examines the historical, cultural, literary and philosophical forces that shaped these works and that are reflected in them. Students will demonstrate the ability to interpret the literature and to relate the works to their historical and literary contexts.

**ENG 298 SPECIAL TOPICS IN LANGUAGE AND LITERATURE (1-2T) 1-2 credits**

This course, which may be repeated for credit as long as the topics differ, permits a student to study with an instructor a topic in English language or in literature. Emphasis is placed on a narrowly focused topic in which the instructor has special expertise, knowledge, or interest. Students will demonstrate through a research paper and/or a literary critique an understanding of the topic.

**ENG 299 DIRECTED STUDIES IN LANGUAGE AND LITERATURE (1-3T) 1-3 credits**

This course, which may be repeated for credit as long as the topics differ, provides the student the opportunity to study an English language or literary topic chosen by the student in consultation with the instructor. Emphasis is placed on the student's investigating the topic and reporting the results of the investigation. The student will demonstrate knowledge of the topic through either a written or an oral presentation.

**ENGLISH/READING (ENR)**

**ENR 094 INTEGRATED READING AND WRITING (3T,IL) 4 credits**

This course will provide comprehensive instruction in basic reading and writing skills, paragraph and essay construction, comprehension skills, vocabulary development, and critical reading.

**FRENCH (FRN)**

**FRN 101 INTRODUCTORY FRENCH I (4T) 4 credits**

This course provides an introduction to French. Topics include the development of basic communication skills and the acquisition of basic knowledge of the cultures of French-speaking areas.

**FRN 102 INTRODUCTORY FRENCH II (4T) 4 credits**  
**PREREQUISITE: FRN 101 or equivalent**

This continuation course includes the development of basic communication skills and the acquisition of basic knowledge of

the cultures of French-speaking areas.

**FRN 201 INTERMEDIATE FRENCH I (3T) 3 credits**  
**PREREQUISITE: FRN 102 or equivalent**

This course includes a review and further development of communication skills. Topics include readings of literary, historical, and/or cultural texts.

**FRN 202 INTERMEDIATE FRENCH II (3T) 3 credits**  
**PREREQUISITE: FRN 201 or equivalent**

This continuation course includes a review and further development of communication skills. Topics include readings of literary, historical, and/or cultural texts.

**GEOGRAPHY (GEO)**

**GEO 100 WORLD REGIONAL GEOGRAPHY (3T) 3 credits**

This course surveys various countries and major regions of the world with respect to location and landscape, world importance and political status, population, type of economy, external and internal organization and relations, problems and potentials.

**GEO 101 PRINCIPLES OF PHYSICAL GEOGRAPHY I (3T, 2E) 4 credits**  
**This course qualifies as a Natural Science elective.**

Physical Geography I is the first in a two-part sequence including topics such as weather and climate relative to the earth and relationships between the earth and sun. Laboratory is required.

**GEO 102 PRINCIPLES OF PHYSICAL GEOGRAPHY II (3T, 2E) 4 credits**  
**This course qualifies as a Natural Science elective.**

Physical Geography II is the second in a two-part sequence including topics such as landforms, landscapes, soil and vegetation of the earth. Laboratory is required.

**GEO 200 GEOGRAPHY OF NORTH AMERICA (3T) 3 credits**  
**PREREQUISITE: GEO 100**

This course is a survey of the geography of the United States and Canada with special emphasis on land usage, mineral resources, industrial development, and social and economic adaptation of man and the natural environment.

**GEO 201 PRINCIPLES OF HUMAN GEOGRAPHY (3T) 3 credits**  
**PREREQUISITE: GEO 100**

This course surveys the science of location, with emphasis on human activities as it relates to agricultural and industrial activities, and cities as market and production centers. Emphasis will be placed on human networks.

**GEO 220 PRINCIPLES OF PHYSICAL GEOGRAPHY**

**(3T) 3 credits**  
This course is an introduction to natural features of the earth. It concentrates on weather, climate, soil, and vegetation associations, on landforms and on the forces that have been active in shaping the earth's surface.

## GERMAN (GRN)

**GRN 101 INTRODUCTORY GERMAN I (4T) 4 credits**  
This course provides an introduction to German. Topics include the development of basic communication skills and the acquisition of basic knowledge of the cultures of German-speaking areas.

**GRN 102 INTRODUCTORY GERMAN II (4T) 4 credits**  
**PREREQUISITE: GRN 101 or equivalent**  
This continuation course includes the development of basic communication skills and the acquisition of basic knowledge of the cultures of German-speaking areas.

**GRN 201 INTERMEDIATE GERMAN I (3T) 3 credits**  
**PREREQUISITE: GRN 102 or equivalent**  
This course includes a review and further development of communication skills. Topics include readings of literary, historical, and/or cultural texts.

**GRN 202 INTERMEDIATE GERMAN II (3T) 3 credits**  
**PREREQUISITE: GRN 201 or equivalent**  
This continuation course includes a review and further development of communication skills. Topics include readings in literary, historical and/or cultural texts.

## HEALTH EDUCATION (HED)

**HED 221 PERSONAL HEALTH (3T) 3 credits**  
This course introduces principles and practices of personal and family health. It includes human reproduction, growth and development, psychological dimensions of health, human sexuality, nutrition and fitness, aging, death and dying.

**HED 222 COMMUNITY HEALTH (3T) 3 credits**  
This course introduces principles and practices of community health. It includes drug use and abuse, communicable diseases, cardiovascular diseases, cancer, consumer health, health organization, and environmental concerns.

**HED 226 WELLNESS (1-3T) 1-3 credits**  
This course provides health-related education to those

individuals seeking advancement in the area of personal wellness. This course has 5 major components: (1) fitness and health assessment, (2) physical work capacity, (3) education, (4) reassessment and (5) retesting.

**HED 230 SAFETY AND FIRST AID (3T) 3 credits**  
HED 230 is divided into two parts. The first part concerns itself with the development of a safety education program within an organization (i.e. school, office, shop, etc.). The second part deals with physical injuries, emergency care, and treatment of those injuries. CPR certification and Standard Red Cross and/or American Heart Association cards are given upon successful completion of American Red Cross requirements.

**HED 231 FIRST AID (3T) 3 credits**  
This course provides instruction to the immediate, temporary care which should be given to the victims of accidents and sudden illnesses. It also includes standard and advanced requirements of the American Red Cross and/or the American Heart Association. CPR training also is included.

**HED 277 CPR RECERTIFICATION (1T) 1 credit**  
In this course, instruction and review of up-dated information concerning cardio-pulmonary resuscitation (CPR) is presented. The student must satisfactorily execute skills needed to meet requirements for recertification in Basic Cardiac Life Support (BCLS) as required by the American Heart Association.

## HISTORY (HIS)

**HIS 121 WORLD HISTORY I (3T) 3 credits**  
**PREREQUISITE: ENR 094 with a "C" or better or satisfactory ACT, SAT, or RDG placement score**  
This course surveys social, intellectual, economic, and political developments which have molded the modern world. Focus is on both non-western and western civilizations from the prehistoric to the early modern era.

**HIS 122 WORLD HISTORY II (3T) 3 credits**  
**PREREQUISITE: ENR 094 with a "C" or better or satisfactory ACT, SAT, or RDG placement score**  
This course is a continuation of HIS 121; it covers world history, both western and non-western, from the early modern era to the present.

**HIS 201 UNITED STATES HISTORY I (3T) 3 credits**  
**PREREQUISITE: ENR 094 with a "C" or better or satisfactory ACT, SAT, or RDG placement score**  
This course surveys United States history during colonial,

Revolutionary, early national, and antebellum periods. It concludes with the Civil War.

**HIS 202 UNITED STATES HISTORY II (3T) 3 credits**

**PREREQUISITE:** ENR 094 with a "C" or better or satisfactory ACT, SAT, or RDG placement score

This course is a continuation of HIS 201; it surveys United States history from the Reconstruction era to the present.

**HIS 216 HISTORY OF WORLD RELIGIONS (3T) 3 credits**

This course presents a comparison of the major religions of the world from an historical perspective. Emphasis is placed on the origin, development, and social influence of Christianity, Judaism, Islam, Hinduism, Buddhism, and others.

**HIS 220 CONTEMPORARY STUDIES (3T) 3 credits**

This course provides a survey of contemporary problems and issues within an historical context. Topics might include nationalism, the rise of Islam as a powerful influence in the post-Cold War environment, environmental issues, and the impact of colonialism on modern, Third World society.

**HIS 256 AFRICAN-AMERICAN HISTORY (3T) 3 credits**

This course focuses on the experience of African-American people in the Western Hemisphere, particularly in the United States. It surveys the period from the African origins of the slave trade during the period of exploration and colonization to the present. The course presents a comparison between the African experience in the United States and in Mexico and South America.

**HIS 260 ALABAMA HISTORY (3T) 3 credits**

This course surveys development of the state of Alabama from its prehistoric times to the present. The course presents material on the discovery, exploration, colonization, territorial period, antebellum Alabama, Reconstruction, and modern history.

**HIS 299 DIRECTED STUDIES IN HISTORY (1-3T) 1-3 credits**

This course affords students opportunities to study selected topics of a historical nature under the direction of an instructor either as part of class or on an individual basis. Internships with historical and preservation organizations, thesis development, and the analysis of secondary monographs are examples of activities for this course. HIS 299 may be repeated for credit.

**HEALTH SCIENCE (HPS)**

**HPS 100 SAFETY ISSUES FOR CLINICAL PRACTICE (1T) 1 credit**

**PREREQUISITE:** ENG 101, SPH 107, PSY 200, MTH 100 or MTH 112 or MTH 116 (FOR NUR STUDENTS ONLY) or Permission of instructor.

**COREQUISITE:** BIO 201, PSY 210, NUR 110, NUR 131, NUR 241 (FOR NUR STUDENTS ONLY).

This course focuses on microbial and physical safety for clinical practice. Emphasis is placed on guidelines established by the Occupational Safety and Health Administration (OSHA) and the Alabama State Department of Public Health; topics include prevention of transmission of blood-borne and air-borne pathogens as well as prevention of injuries during clinical practice. Upon completion of this course, the student should be able to participate in the clinical setting implementing measures which will prevent injuries and using appropriate universal precautions.

**HPS 105 MEDICAL TERMINOLOGY (2T, 2E) 3 credits**

**PREREQUISITE:** As required by program.

This course is an application for the language of medicine. Emphasis is placed on terminology associated with health care, spelling, pronunciation, and meanings associated with prefixes, suffixes, and roots as they relate to anatomical body systems. Upon completion of this course, the student should be able to correctly abbreviate medical terms and appropriately use medical terminology in verbal and written communication.

**HPS 113 SPANISH FOR HEALTH CARE PROFESSIONALS (3T) 3 credits**

This course provides an introduction to Spanish with a focus on the basic communication skills and vocabulary needed by health professionals when a non-English speaking Hispanic enters a health care setting. Topics include soliciting identification information, history taking, performance of physical exam and giving instructions on general care and follow-up.

**HPS 114 BASIC PHARMACOLOGY (2T) 2 credits**

**PREREQUISITE:** As required by program.

This course is an introduction to basic pharmacology. Content includes classifications, indications, contraindications, desired effects, and side effects of medications used during diagnostic procedures and the prevention and treatment of common illnesses. Upon completion of the course, the student should be able to relate basic pharmacological concepts to the maintenance of health.

**INDUSTRIAL ELECTRONICS TECHNOLOGY (ILT)**

**ILT 104 INDUSTRIAL INSTRUMENTATION (2T, 3M) 3 credits**

**PREREQUISITE:** ILT 114

This course provides a study of instrumentation circuits/systems. Topics include the use of transducers, detectors, actuators, and/or other devices and equipment in industrial applications. Upon completion, the student should be able to apply principles of

instrumentation circuits and systems.

## ILT 114 INSTRUMENTATION OPERATION AND CALIBRATION (2T, 2E) 3 credits

**PREREQUISITE:** ELT 108 and ELT 109

The hardware used to measure and control process variables is presented. The student learns the principles of operation, servicing, maintenance, calibration, and troubleshooting procedures used on mechanical, pneumatic, electronic and digital based industrial transmitters, recorders, controllers, valves, and other control devices. The course is broken down into theory and laboratory work on actual process measuring and control equipment.

## ILT 163 DIGITAL FUNDAMENTALS (1T, 4E) 3 credits

**PREREQUISITE:** ELT 108 and ELT 109

This course provides instruction on basic logic gates, flip-flops, registers, counters, microprocessor/computer fundamentals, analog to digital conversion, and digital analog conversion. Emphasis is placed on number systems, Boolean algebra, combination logic circuits, sequential logic circuits, and typical microprocessor data manipulation and storage. This course also has an embedded lab with exercises designed to develop skills required by industry. Upon completion, students should be able to analyze digital circuits, draw timing diagrams, determine output of combinational and sequential logic circuits and diagnose and troubleshoot electronic components as well as demonstrate knowledge of microprocessor and computer circuits.

## ILT 214 CONTROL AND TROUBLESHOOTING FLOW, LEVEL, TEMPERATURE, PRESSURE AND LEVEL PROCESSES (2T, 2E) 3 credits

**PREREQUISITE:** ILT 104

The student is introduced to analog and digital process control systems. The student is also introduced to process control techniques commonly found in industrial processes used to maintain control of process variables. The student gains knowledge and experience in the design and selection of equipment used in troubleshooting of control loops on actual equipment in the lab.

## ILT 235 PRINCIPLES OF ROBOTIC SYSTEMS (3T) 3 credits

**PREREQUISITE:** ELT 108 and ELT 109

**COREQUISITE:** ILT 236

This course is an overview of basic robotic systems and classifications used in industry. An emphasis is placed on safety elements particular to automation. Topics include the principles and concepts associated with robotic system components. Upon completing this course, students should be able to classify robots and explain the various components of a safe robotic system and how these components interact.

## ILT 236 PRINCIPLES OF ROBOTIC PROGRAMMING

## (1T, 2E) 2 credits

**COREQUISITE:** ILT 235

This course covers the basic techniques used to write, execute, test, and modify a basic robotic program for an application-specific operation. Topics covered are related to safety, robotic systems, computer terminal programming, teach pendant programming, and input/output interfacing. Upon completion, a student should be able to write, test, and evaluate a robotic program.

## INDUSTRIAL MAINTENANCE TECHNOLOGY (INT)

### INT 117 PRINCIPLES OF INDUSTRIAL MECHANICS (2T, 3M) 3 credits

This course provides instruction in basic physics concepts applicable to mechanics of industrial production equipment. Topics include the basic application of mechanical principles with emphasis on power transmission, specific mechanical components, alignment, and tension. Upon completion, students will be able to perform basic troubleshooting, repair and maintenance functions on industrial production equipment.

### INT 127 PRINCIPLES OF INDUSTRIAL PUMPS AND PIPING SYSTEMS (2T, 2E) 3 credits

This course provides instruction in the fundamental concepts of industrial pumps and piping systems. Topics include pump identification, operation, and installation, maintenance and troubleshooting, and piping systems and their installation. Upon course completion, students will be able to install, maintain, and troubleshoot industrial pumps and piping systems.

## MACHINE TOOL TECHNOLOGY (MTT)

### MTT 107 MACHINING CALCULATIONS I (3T) 3 credits

This course introduces basic calculations as they relate to machining occupations. Emphasis is placed on basic calculations and their applications in the machine shop. Upon completion, students should be able to perform basic shop calculations. This course is aligned with NIMS certification standards.

### MTT 108 MACHINIST HANDBOOK FUNCTIONS I (3T) 3 credits

**PREREQUISITES:** MTT 107

This course covers the machinist's handbook. Emphasis is placed on formulas, tables, usage and related information. Upon completion, students should be able to use the handbook in the calculation and set-up of machine tools. This course is aligned with NIMS certification standards.

### MTT 109 ORIENTATION TO COMPUTER ASSISTED MANUFACTURING (3T) 3 credits

**PREREQUISITE:** MTT 139, MTT 140 and MTT 141

This course serves as an overview and introduction to computer assisted manufacturing (CAM) and prepares students for more

advanced CAM courses. Topics covered are basic concepts and terminology, CAM software environments, navigation commands and file management, 2-D geometry, construction modification, and toolpath generation for CAM machining processes.

**MTT 121 BASIC BLUEPRINT READING FOR MACHINISTS (3T) 3 credits**

This course covers the basic principles of blueprint reading and sketching. Topics include multi-view drawings; interpretation of conventional lines; and dimensions, notes, and thread notations. Upon completion, students should be able to interpret basic drawings, visualize parts, and make pictorial sketches. This is a CORE course and is aligned with NIMS certification standards.

**MTT 128 GEOMETRIC DIMENSIONING AND TOLERANCING I (3T) 3 credits**  
**PREREQUISITES: MTT 121**

This course is designed to teach students how to interpret engineering drawings using modern conventions, symbols, datums, datum targets, and projected tolerance zones. Special emphasis is placed upon print reading skills, and industry specifications and standards. This course is aligned with NIMS certification standards.

**MTT 134 LATHE OPERATIONS I (2T, 2E) 3 credits**  
**PREREQUISITE: MTT 149 AND MTT 150**  
**COREQUISITE: MTT 135**

This course includes more advanced lathe practices such as set-up procedures, work planning, inner- and outer-diameter operations, and inspection and process improvement. Additional emphasis is placed on safety procedures. Upon completion, students will be able to apply advanced lathe techniques. This course is aligned with NIMS standards.

**MTT 135 LATHE OPERATIONS I LAB (6E) 3 credits**  
**PREREQUISITE: MTT 149 and MTT 150**  
**COREQUISITE: MTT 134**

This course includes more advanced lathe practices such as set-up procedures, work planning, inner- and outer-diameter operations, and inspection and process improvement. Additional emphasis is placed on safety procedures. Upon completion, students will be able to apply advanced lathe techniques. This course is aligned with NIMS standards.

**MTT 138 MILLING I LAB (9M) 3 credits**  
**PREREQUISITE: MTT 149 and MTT 150 or Permission of instructor**

This course provides basic knowledge of milling machines. Emphasis is placed on types of milling machines and their uses, cutting speed, feed calculations, and set-up procedures. Upon completion, students should be able to apply milling techniques to produce machine tool projects. This course is aligned with

NIMS certification criteria.

**MTT 139 BASIC COMPUTER NUMERICAL CONTROL (2T, 3M) 3 credits**  
**PREREQUISITES: MTT 138 or Permission of instructor**

This course introduces the concepts and capabilities of computer numeric control (CNC) machine tools. Topics include set-up, operation, and basic applications. Upon completion, students should be able to develop a basic CNC program to safely operate a lathe and milling machine. This course is aligned with NIMS certification standards.

**MTT 140 BASIC CNC TURNING I (1T, 6M) 3 credits**  
**PREREQUISITE: MTT 138**  
**COREQUISITE: MTT 243**

This course covers concepts associated with basic programming of a computer numerical control (CNC) turning center. Topics include basic programming characteristics, motion types, tooling, workholding devices, set-up documentation, tool compensations, and formatting. Upon completion, students should be able to write a basic CNC turning program that will be used to produce a part. This course is aligned with NIMS certification standards.

**MTT 141 BASIC CNC MILLING I (1T, 6M) 3 credits**  
**PREREQUISITE: MTT 138**  
**COREQUISITE: MTT 241**

This course covers concepts associated with basic programming of a computer numerical control (CNC) milling center. Topics include basic programming characteristics, motion types, tooling, workholding devices, setup documentation, tool compensations, and formatting. Upon completion, students should be able to write a basic CNC milling program that will be used to produce a part. This course is aligned with NIMS certification standards.

**MTT 144 ELECTRICAL DISCHARGE MACHINING I (1T, 4E) 3 credits**  
**PREREQUISITE: Permission of instructor**

This course introduces the student to the concepts of Electrical Discharge Machining (EDM) and the importance of EDM in an industrial setting. Emphasis is placed on safety procedures and machinist responsibility in the set-up and operation of EDM machines and electrode selection. Upon completion, students should be able to produce basic machine products using both the wire-type and plunge-type EDM machines. This course is aligned with NIMS certification standards.

**MTT 147 INTRODUCTION TO MACHINE SHOP I (2T, 3M) 3 credits**  
**COREQUISITE: MTT 148**

This course introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, measuring tools, lathes, saws, milling machines, bench grinders,

and layout instruments. Upon completion, students will be able to perform the basic operations of measuring, layout, drilling, sawing, turning, and milling. This is a CORE course.

**MTT 148 INTRODUCTION TO MACHINE SHOP I LAB (6E) 3 credits**  
**COREQUISITE: MTT 147**

This course provides practical application of the concepts and principles of machining operations learned in MTT 147. Topics include machine shop safety, measuring tools, lathes, saws, milling machines, bench grinders, and layout instruments. Upon completion, students will be able to perform the basic operations of measuring, layout, drilling, sawing, turning, and milling. This is a CORE course. This course is aligned with NIMS certification standards.

**MTT 149 INTRODUCTION TO MACHINE SHOP II (2T, 3M) 3 credits**  
**COREQUISITE: MTT 150**

This course provides additional instruction and practice in the use of measuring tools, lathes, milling machines, and grinders. Emphasis is placed on set-up and operation of machine tools including the selection of work holding devices, speeds, feeds, cutting tools and coolants. Upon completion, students should be able to perform intermediate level procedures of precision grinding, measuring, layout, drilling, sawing, turning, and milling. This is a CORE course and is aligned with NIMS certification standards.

**MTT 150 INTRODUCTION TO MACHINE SHOP II LAB (6E) 3 credits**  
**COREQUISITE: MTT 149**

This course provides additional instruction and practice in the use of measuring tools, lathes, milling machines, and grinders. Emphasis is placed on set-up and operation of machine tools including the selection of work holding devices, speeds, feeds, cutting tools and coolants. Upon completion, students should be able to perform intermediate level procedures of precision grinding, measuring, layout, drilling, sawing, turning, and milling. This is a CORE course and is aligned with NIMS certification standards.

**MTT 158 DIE FUNDAMENTALS (2T, 3M) 3 credits**  
**PREREQUISITE MTT 138 or Permission of Instructor**

The purpose of this course is to teach the general fundamentals of stamping. Topics include the dangers of a press operation, the primary components of presses and their functions, the operations of various types of dies, various stamping production methods, and the numerous components used to make up various dies. Upon completion, students should be completely familiar with stamping operations and have a fundamental knowledge of how dies are constructed and how they shape material.

**MTT 159 BASIC FORMABILITY**

**(2T, 3M) 3 credits**  
**PREREQUISITE MTT 138 or Permission of Instructor**

This course is designed to introduce the basic manufacturing processes used to form various materials into those needed for manufacturing. Topics include safety, commonly used materials, the structure of materials, various manufacturing processes, the casting and molding process, forming, separating, conditioning, assembling, and finishing. Upon completion, students should be well aware of the basic concept of formability and the processes used to convert raw materials into manufactured products.

**MTT 160 DIE CONSTRUCTION AND TRYOUT (1T, 6M) 3 credits**  
**PREREQUISITE MTT 138 or Permission of Instructor**

This course is an introduction into constructing and testing dies. Emphasis is placed on safety, machining skills, die construction, and die tryout. Upon completion, the students should be able to read a print, construct the die from that print, and test its performance.

**MTT 161 DIE MAINTENANCE AND REPAIR (1T, 6M) 3 credits**  
**PREREQUISITE MTT 138 or Permission of Instructor**

This course serves as a follow on to AUT 160 Die Construction and Tryout. Emphasis is placed on safety inspection, measurement, sharpening, grinding, disassembly, and the reassembly process. Upon completion the students should be able to safely inspect a die and perform the necessary functions to insure it is ready for use.

**MTT 162 PRECISION GRINDING (2T, 2E) 3 credits**  
**PREREQUISITE: MTT 138**

This course includes more advanced precision grinder practices such as set-up procedures, work planning, surface grinding, cylindrical grinding, tool and cutter grinding, and inspection and process improvement. Additional emphasis is placed on safety procedures. Upon completion, students will be able to apply advanced precision grinding techniques. This course is aligned with NIMS standards. **(Summer Semester Only)**

**MTT 163 PRECISION GRINDING LAB (6E) 3 credits**  
**COREQUISITE: MTT 162**

This course provides practical application of the concepts and principles of precision grinding learned in MTT 162. Topics include set-up procedures, work planning, surface grinding, cylindrical grinding, tool and cutter grinding, and inspection and process improvement. Additional emphasis is placed on safety procedures. Upon completion, students will be able to apply advanced precision grinding techniques. This course is aligned with NIMS standards. **(Summer Semester Only)**

**MTT 212 ADVANCED COMPUTER NUMERICAL CONTROL TURNING (1T, 6M) 3 credits**

**PREREQUISITE: MTT 140 and MTT 243**

**COREQUISITE: MTT 244**

This course details the use of canned cycles and subprograms in computer numerical control (CNC) turning programs. Upon completing this course, the student should be able to write CNC turning programs using canned cycles and subprograms.

**MTT 213 ADVANCED COMPUTER NUMERICAL CONTROL MILLING**

**(1T, 6M)**

**3 credits**

**PREREQUISITE: MTT 141 and MTT 241**

**COREQUISITE: MTT 242**

This course details the use of canned cycles and subprograms in computer numerical control (CNC) milling programs. Upon completing this course, the student should be able to write CNC milling programs using canned cycles and subprograms.

**MTT 219 COMPUTER NUMERICAL CONTROL GRAPHICS: TURNING**

**(1T, 6M)**

**3 credits**

**PREREQUISITES: MTT 140 or Permission of Instructor**

This course covers techniques involved in writing a program for a multi-axis computerized numeric control (CNC) turning machine using computer assisted manufacturing (CAM) software. In addition, CNC turning machine set-up, programming, and operation are detailed. Upon completion, the student should be able to set-up, program, and operate a 3-axis CNC turning machine to produce a 2-axis part using CAM software. This course is aligned with NIMS certification standards. **(Summer Semester Only)**

**MTT 220 COMPUTER NUMERICAL CONTROL GRAPHICS: MILLING**

**(1T, 6M)**

**3 credits**

**PREREQUISITES: MTT 140 141 or Permission of Instructor**

This course covers techniques involved in writing a program for a multi-axis computerized numeric control (CNC) milling machine using computer assisted manufacturing (CAM) software. In addition, CNC milling machine set-up, programming, and operation are detailed. Upon completion, the student should be able to set-up, program, and operate a 3-axis CNC milling machine to produce a 2-axis part using CAM software. This course is aligned with NIMS certification standards. **(Summer Semester Only)**

**MTT 241 CNC MILLING LAB I**

**(6E)**

**3 credits**

**COREQUISITE: MTT 141**

This course covers basic (3-axis) computer numeric control (CNC) milling machine setup and operating procedures. Upon completion, the student should be able to load a CNC program and set-up and operate a 3-axis CNC milling machine to produce a specified part. Related safety, inspection, and process adjustment are also covered.

**MTT 242 CNC MILLING LAB II**

**(6E)**

**3 credits**

**PREREQUISITE: MTT 141 and MTT 241**

**COREQUISITES: MTT 213**

This course covers advanced (including 4-axis) computer numeric control (CNC) milling machine set-up and operating procedures. Upon completion, the student should be able to load a CNC program and set-up and operate a CNC milling machine (including 4-axis) to produce a specified part. Related safety and inspection and process adjustment are also covered.

**MTT 243 CNC TURNING LAB I**

**(6E)**

**3 credits**

**COREQUISITE: MTT 140**

This course covers basic computer numeric control (CNC) turning machine set-up and operating procedures (inner diameter and outer diameter). Upon completion, the student should be able to load a CNC program and set-up and operate a CNC turning machine to produce a simple part. Related safety and inspection and process adjustment are also covered.

**MTT 244 CNC TURNING LAB II**

**(6E)**

**3 credits**

**COREQUISITE: MTT 212 or Permission of instructor**

This course covers advanced computer numeric control (CNC) turning machine set-up and operating procedures. Upon completion, the student should be able to load a CNC program and set-up and operate a CNC turning machine to produce a specified part. Related safety and inspection and process adjustment are also covered.

**MTT 281 SPECIAL TOPICS IN MACHINE TOOL TECHNOLOGY**

**(1T, 6M)**

**3 credits**

**PREREQUISITE: Permission of instructor**

This course is a guided study of special projects in machine tool technology. Emphasis is placed on student needs. Upon completion, students should be able to demonstrate skills developed to meet specific needs.

**MTT 282 SPECIAL TOPICS IN MACHINE TOOL TECHNOLOGY**

**(1T, 6M)**

**3 credits**

**PREREQUISITE: Permission of instructor**

This course is a guided study of special projects in machine tool technology. Emphasis is placed on student needs. Upon completion, students should be able to demonstrate skills developed to meet specific needs.

**MASS COMMUNICATIONS (MCM)**

**MCM 100 INTRO TO MASS COMMUNICATIONS**

**(3T)**

**3 credits**

This course provides the student with general study of mass communications and journalism. The course includes theory, development, regulation, operation, and effects upon society.

**MCM 130 NEWS REPORTING**

**(3E)**

**3 credits**

**PREREQUISITE: Typing ability**

This course includes instruction and practice in newsgathering and newswriting techniques including methodology, observation, interviews, and use of sources.

## MCM 250 MASS COMMUNICATIONS PRACTICUM

(3T)

3 credits

This course provides practical experience in media through supervised part or full-time employment with a newspaper, radio or television station, or public relations/advertising agency.

## MATHEMATICS (MTH)

**MATHEMATICS COURSE NUMBERS DO NOT NECESSARILY REFLECT THE DIFFICULTY OF THE COURSE.**

## MTH 080 MATHEMATICS LABORATORY

(1L)

1 credits

This course is designed to offer supplemental help to students in Mathematics. Students work in a laboratory situation under qualified instructors. This course may be repeated as needed. Emphasis is on arithmetic and algebra as determined by the individual need of the students.

## MTH 090 BASIC MATHEMATICS

(3T)

3 credits

**PREREQUISITE:** None

This is a developmental course reviewing arithmetical principles and computations designed to help the student's mathematical proficiency for selected curriculum entrance.

## MTH 098 ELEMENTARY ALGEBRA

(3T)

3 credits

**PREREQUISITE:** A grade of "C" or better in MTH 090 (Basic Mathematics) or appropriate mathematics placement score

This course is a review of the fundamental arithmetic and algebra operations. The topics include the numbers of ordinary arithmetic and their properties; integers and rational numbers; the solving of equations; polynomials and factoring; and an introduction to systems of equations and graphs.

## MTH 100 INTERMEDIATE COLLEGE ALGEBRA

(3T)

3 credits

**PREREQUISITE:** A grade of "C" or better MTH 098 or appropriate mathematics placement score

This course provides a study of algebraic techniques such as linear equations and inequalities, quadratic equations, systems of equations, and operations with exponents and radicals. Functions and relations are introduced and graphed with special emphasis on linear and quadratic functions. This course does not apply toward the general core requirement for mathematics.

## MTH 103 INTRODUCTION TO TECHNICAL MATHEMATICS

(3T)

3 credits

**PREREQUISITE:** A grade of "C" or better in MTH 098 or

## appropriate mathematics placement score

This course is designed for the student in technology needing simple arithmetic, algebraic, and right triangle trigonometric skills.

## MTH 110 FINITE MATHEMATICS

(3T)

3 credits

**PREREQUISITE:** A minimum prerequisite of high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score. An alternative to this is that the student should successfully pass with a "C" or higher (S if taken as pass/fail) MTH 100 - Intermediate College Algebra

This course is intended to give an overview of topics in finite mathematics together with their applications, and is taken primarily by students who are not majoring in science, engineering, commerce or mathematics (i.e., students who are not required to take Calculus). This course will draw on and significantly enhance the student's arithmetic and algebraic skills. The course includes sets, counting, permutations, combinations, basic probability (including Bayes' Theorem), and introduction to statistics (including work with Binomial Distributions and Normal Distributions), matrices and their applications to Markov chains and decision theory. Additional topics may include symbolic logic, linear models, linear programming, the simplex method and applications.

## MTH 112 PRECALCULUS ALGEBRA

(3T)

3 credits

**PREREQUISITE:** A minimum prerequisite of high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score. An alternative to this is that the student should successfully pass with a "C" or higher (S if taken as pass/fail) MTH 100- Intermediate College Algebra.

This course emphasizes the algebra of functions—including polynomial, rational, exponential, and logarithmic functions. The course also covers systems of equations and inequalities, quadratic inequalities, and the binomial theorem. Additional topics may include matrices, Cramer's Rule, and mathematical induction.

## MTH 113 PRECALCULUS TRIGONOMETRY

(3T)

3 credits

**PREREQUISITE:** A minimum prerequisite of high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score is required. An alternative to this is that the student should successfully pass with a "C" or higher (S if taken as a pass/fail) MTH 112-Precalculus Algebra

This course includes the study of trigonometric (circular functions) and inverse trigonometric functions, and includes extensive work with trigonometric identities and trigonometric equations. The course also covers vectors, complex numbers, DeMoivre's Theorem, and polar coordinates. Additional topics may include conic sections, sequences, and using matrices to solve linear systems.

**MTH 116 MATHEMATICAL APPLICATIONS**

(3T)

**3 credits**

**PREREQUISITE:** MTH 090 (Basic Mathematics) or appropriate mathematics placement score

This course provides practical applications of mathematics and includes selected topics from consumer math and algebra. Some topics included are integers, percent, interest, ratio and proportion, metric system, probability, linear equations, and problem solving.

**MTH 120 CALCULUS AND ITS APPLICATIONS**

(3T)

**3 credits**

**PREREQUISITE:** A minimum prerequisite of high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score is required. An alternative to this is that the student should successfully pass with a "C" or higher MTH 112-Precalculus Algebra.

This course is intended to give a broad overview of calculus and is taken primarily by students majoring in Commerce and Business Administration. It includes differentiation and integration of algebraic, exponential, and logarithmic functions and applications to business and economics. The course should include functions of several variables, partial derivatives (including applications), Lagrange Multipliers, L'Hopital's Rule, and multiple integration (including applications).

**MTH 125 CALCULUS I**

(4T)

**4 credits**

**PREREQUISITE:** A minimum prerequisite of high school Algebra I, Geometry and Algebra II with an appropriate mathematics placement score is required. An alternative to this is that the student should successfully pass with a "C" or higher MTH 113 (Precalculus Trigonometry) or MTH 115 (Precalculus Algebra & Trigonometry).

This is the first of three courses in the basic calculus sequence taken primarily by students in science, engineering, and mathematics. Topics include the limit of a function; the derivative of algebraic, trigonometric, exponential, and logarithmic functions; and the definite integral and its basic applications to area problems. Applications of the derivative are covered in detail, including approximations of error using differentials, maximum and minimum problems, and curve sketching using calculus.

**MTH 126 CALCULUS II**

(4T)

**4 credits**

**PREREQUISITE:** A minimum prerequisite of high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score is required. An alternative to this is that the student should successfully pass with a "C" or higher MTH 125 (Calculus I).

This is the second of three courses in the basic calculus sequence. Topics include vectors in the plane and in space, lines and planes in space, applications of integration (such as volume, arc length, work and average value), techniques of integration, infinite series, polar coordinates, and parametric equations.

**MTH 227 CALCULUS III**

(4T)

**4 credits**

**PREREQUISITE:** A grade of "C" or better in MTH 126 (Calculus II)

This is the third of three courses in the basic calculus sequence. Topics include vector functions, functions of two or more variables, partial derivatives (including applications), quadratic surfaces, multiple integration, and vector calculus (including Green's Theorem, Curl and Divergence, surface integrals, and Stokes' Theorem).

**MTH 231 MATHEMATICS FOR THE ELEMENTARY TEACHER I**

(3T)

**3 credits**

**PREREQUISITE:** A grade of "C" or better in MTH 098

This course is designed to provide appropriate insights into mathematics for students majoring in elementary education and to ensure that students going into elementary education are more than proficient at performing basic arithmetic operations. Topics include logic, sets and functions, operations and properties of whole numbers and integers including number theory, and use of manipulatives by teachers to demonstrate abstract concepts and by students while learning these abstract concepts as emphasized in the class. Upon completion, students are required to demonstrate proficiency in each topic studied as well as to learn teaching techniques that are grade level and subject matter appropriate, and test for mathematical proficiency and the learning of teaching concepts.

**MTH 232 MATHEMATICS FOR THE ELEMENTARY TEACHER II**

(3T)

**3 credits**

**PREREQUISITE:** A grade of "C" or better in MTH 231 MTH 098  
**COREQUISITE:** MTH 231

This course is the second of a two-course sequence and is designed to provide appropriate insights into mathematics for students majoring in elementary education and to ensure that students going into elementary education are more than proficient at performing basic arithmetic operations. Topics include numeration skills with fractions, decimals and percentages, elementary concepts of probability and statistics, and analytic geometry concepts associated with linear equations and inequalities. The use of manipulatives and calculators in the teaching and learning process is stressed. Upon completion, students will test for mathematical proficiency and the learning of teaching concepts. Students also will demonstrate an appropriate teaching technique by preparing a lesson and teaching it to the class for their final exam grade.

**MTH 237 LINEAR ALGEBRA**

(3T)

**3 credits**

**PREREQUISITE:** A grade of "C" or better in MTH 126 (Calculus II)

This course introduces the basic theory of linear equations and matrices, real vector spaces, bases and dimension, linear transformations and matrices, determinants, eigenvalues and eigenvectors, inner product spaces, and the diagonalization of symmetric matrices. Additional topics may include quadratic

forms and the use of matrix methods to solve systems of linear differential equations.

## **MTH 238 APPLIED DIFFERENTIAL EQUATIONS I (3T) 3 credits**

**COREQUISITE:** MTH 227 (Calculus III)

An introduction to numerical methods, qualitative behavior of first order differential equations, techniques for solving separable and linear equations analytically, and applications to various models (e.g. populations, motion, chemical mixtures, etc.); techniques for solving higher order linear differential equations with constant coefficients (general theory, undetermined coefficients, reduction of order and the method of variation of parameters), with emphasis on interpreting the behavior of solutions, and applications to physical models whose governing equations are of higher order; the Laplace transform as a tool for the solution of initial value problems whose inhomogeneous terms are discontinuous.

## **MTH 265 ELEMENTARY STATISTICS (3T) 3 credits**

**PREREQUISITE:** MTH 100 (Intermediate College Algebra) or appropriate mathematics placement score

This course provides an introduction to methods of statistics, including the following topics: sampling, frequency distributions, measures of central tendency, graphic representation, reliability, hypothesis testing, confidence intervals, analysis, regression, estimation, and applications. Probability, permutations, combinations, binomial theorem, random variables, and distributions may be included.

## MEDICAL LABORATORY TECHNICIAN (MLT)

### **MLT 111 URINALYSIS & BODY FLUIDS (2T, 4E) 4 credits**

**PREREQUISITE:** Admission to the Program

This course focuses on the theory and techniques in the examination of urine and other body fluids. The student is introduced to the physical and chemical properties of these fluids as well as microscopic examination of sediment and the identification of cells and crystals. Upon completion, students should be able to perform basic urinalysis and correlate laboratory results to renal disorders and other disease states. **CORE**

### **MLT 121 MLT HEMATOLOGY (3T, 4E) 5 credits**

**PREREQUISITE:** Admission to the Program

**COREQUISITE:** MLT 131

In this course, the theory and techniques of hematology are covered. The student is presented with blood components, normal and abnormal cell morphology, hemostasis, and selected automated methods. Upon completion, students should be able to perform various procedures including preparation and examination of hematologic slides and relate results to specific disorders. **CORE**

### **MLT 131 LABORATORY TECHNIQUES (3T, 3E) 4 credits**

**PREREQUISITE:** Admission to the Program

**COREQUISITE:** MLT 121

This course covers the basic principles and techniques used in the clinical laboratory. Emphasis is placed on terminology, basic microscopy, safety, and computations. Upon completion, students should be able to perform various basic laboratory analyses and utilize basic theories of laboratory principles. **CORE**

### **MLT 141 MLT MICROBIOLOGY I (3T, 4E) 5 credits**

**PREREQUISITE:** Admission to the Program

The student is presented with the theories, techniques, and methods used in basic bacteriology. Focus is on bacterial isolation, identification, and susceptibility testing. Upon completion, students should be able to select media, isolate and identify microorganisms, and discuss modern concepts of epidemiology. **CORE**

### **MLT 142 MLT MICROBIOLOGY II (3T, 2E) 4 credits**

**PREREQUISITE:** MLT 141

The student is presented with the theories, techniques, and methods used in basic parasitology, mycology, and virology. Emphasis is placed on special bacteria, identification, life cycles, culture growth, and pathological states of infection and infestation. Upon completion, students should be able to identify certain parasites, demonstrate various staining and culture procedures, and discuss the correlation of certain microorganisms to pathological conditions. **CORE**

### **MLT 151 MLT CLINICAL CHEMISTRY (3T, 4E) 5 credits**

**PREREQUISITE:** Admission to the Program

This course emphasizes theories and techniques in basic and advanced clinical chemistry. Coverage includes various methods of performing biochemical analyses on clinical specimens. Upon completion, students should be able to apply the principles of clinical chemistry, evaluate quality control, and associate abnormal test results to clinical significance. **CORE**

### **MLT 161 MLT INTEGRATED LABORATORY SIMULATION (4E) 2 credits**

**PREREQUISITE:** Completion of: MLT 111, MLT 121, MLT 131, MLT 141, MLT 142, MLT 151 AND MLT 181

This course provides an opportunity for the student to perform clinical laboratory procedures in all phases of laboratory testing as a review of previous laboratory courses. Emphasis is placed on organization of tasks, timing, accuracy, and simulation of routine operations in a clinical laboratory. Upon completion, students should be able to organize tasks and perform various basic laboratory analyses with accuracy and precision. **CORE**

### **MLT 181 MLT IMMUNOLOGY (1T, 2E) 2 credits**

**PREREQUISITE: Admission to the Program**

Theory and techniques in immunology are presented to the student. Emphasis is placed on the basic principles of the immune system, serologic testing, the production of specific antibodies and their use in the identification of infectious organisms. Upon completion, students should be able to relate basic principles of immunology, describe techniques for analytical methods utilizing immunological concepts, and correlate results of analyses to certain disease states. **CORE**

**MLT 191 MLT IMMUNOHEMATOLOGY (3T, 4E) 5 credits**

**PREREQUISITE: Admission to the Program**

Theory and techniques in immunohematology are presented to the student. In this course coverage includes antigen and antibody reactions including blood typing, antibody detection and identification, and compatibility testing. Upon completion, students should be able to apply theories and principles of immunohematology to procedures for transfusion and donor services and correlate blood banking practices to certain disease states and disorders. **CORE**

**MLT 293 CLINICAL LABORATORY SEMINAR (2T) 2 credits**

**PREREQUISITE: Admission to the Program**

This course is a cumulative review of clinical laboratory science theory. The seminar consists of an on-campus summation of previous classes emphasizing recall, application of theory, correlation, and evaluation of all areas of clinical laboratory science. Upon completion, students should be able to apply theory of analytical methods, recognize normal, abnormal, and erroneous results, and relate laboratory results to pathological conditions.

**MLT 294 CLINICAL LABORATORY PRACTICUM I (9C) 3 credits**

**PREREQUISITE: Admission to the Program and Permission of Instructor**

This supervised practicum is within the clinical setting and provides laboratory practice in hematology and urinalysis. Emphasis is placed on clinical skills and performance in areas such as specimen preparation and examination, instrumentation, reporting of results, management of data and quality control. Upon completion, students should be able to process specimens, perform analyses utilizing various methods including instrumentation, report results, manage data and quality control using information systems. **CORE**

**MLT 295 CLINICAL LABORATORY PRACTICUM II (9C) 3 credits**

**PREREQUISITE: Admission to the Program and Permission of Instructor**

This supervised practicum is within the clinical setting and provides laboratory practice in microbiology. Emphasis is placed on clinical skills and performance in areas such as recovery, isolation, culturing and identification of microorganisms. Upon

completion, students should be able to isolate, culture, analyze microorganisms utilizing various methods, report results, manage data and quality control using information systems. **CORE**

**MLT 296 CLINICAL LABORATORY PRACTICUM III (9C) 3 credits**

**PREREQUISITE: Admission to the Program and Permission of Instructor**

This supervised practicum is within the clinical setting and provides laboratory practice in serology and immunohematology. Emphasis is placed on clinical skills and performance in areas such as the detection and identification of antibodies, the typing of blood, and compatibility testing of blood and blood components. Upon completion, students should be able to perform the screening for and identification of antibodies, compatibility testing, record and manage data and quality control using information systems. **CORE**

**MLT 297 CLINICAL LABORATORY PRACTICUM IV (9C) 3 credits**

**PREREQUISITE: Admission to the Program and Permission of Instructor**

This supervised practicum is within the clinical setting and provides laboratory practice in clinical chemistry. Emphasis is placed on clinical skills and performance in areas such as computerized instrumentation and the ability to recognize technical problems. Upon completion, students should be able to perform biochemical analyses by various methods, including testing utilizing computer-oriented instrumentation, report test results, manage patient data and quality control statistics using information systems. **CORE**

**MUSIC (MUL) (MUP) (MUS)**

**MUL 101-02 CLASS PIANO I, II (2E) 1 credit**

These courses, to be taken in sequence, present fundamentals of keyboard technique for students with little or no previous training. Emphasis is placed on the rudiments of music, basic performance technique and general musicianship. Upon completion of one or a sequence of courses, students should be able to demonstrate a basic proficiency in playing and a knowledge of music fundamentals.

**MUL 111-12 CLASS VOICE I, II (2E) 1 credit**

These courses must be taken in sequence. Emphasis is placed on fundamentals of correct breathing, tone production, and diction for students with little or no previous voice training. Literature appropriate for class level is studied. Upon completion of one or a sequence of courses, students should be able to demonstrate a basic proficiency in singing and a knowledge of music fundamentals. A minimum grade of "C" is required to progress to next level.

## MUL 161 CLASS FRETTED INSTRUMENTS I, II, III -63 (2E) 1 credit

These courses must be taken in sequence. These courses include basic techniques, chords, scales, fingering, rhythm, strumming, and playing simple melodies. They are designed for students with little or no previous training. Emphasis is placed on the rudiments of music, basic performance technique and general musicianship skills. Upon completion of one or a sequence of courses, students should be able to demonstrate a basic proficiency in playing and a knowledge of music fundamentals.

## MUL 180 CHORALE -81 (2-4E) 2 credits

### MUL 280 PREREQUISITE: Permission of instructor

-81 These courses are selected performing ensembles open to all students. Chorale is required for voice majors and minors. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Performances are assigned.

## MUL 184 CONNECTION -85 (2-4E) 2 credits

### MUL 284 PREREQUISITE: Permission of instructor and audition

-85 This course provides an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by ensemble. Performances are assigned.

## MUL 192 GUITAR ENSEMBLE -93B (2-4E) 2 credits

### MUL 292 PREREQUISITE: Permission of instructor

-93B This course provides ensemble experience for guitar students in playing standard literature and arrangements and transcriptions for classical technique. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Performances are assigned. This course is open to all students and is required for guitar majors.

## MUL 196 JAZZ BAND -97 (2-4E) 2 credits

### MUL 296 PREREQUISITE: Permission of instructor

-97 This course provides an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. Performances are assigned.

## MUP 101 PIANO 102, 201 (2-4E) 1-2 credits

202 PREREQUISITE: MUL 101, 102 or Permission of instructor  
Individual study, minimum grade of "B" is required to progress to next level. Emphasis is placed on developing technique,

repertoire and performance skills commensurate with the student's educational goals. Students are required to practice a minimum of five hours per week for each credit hour. Upon completion, students should be able to effectively perform assigned repertoire and technical studies in an appropriate performance evaluation setting. At the conclusion of the last semester of study, a sophomore recital is required.

## MUP 111 VOICE 112, 211 (2-4E) 1-2 credits 212 PREREQUISITE: MUL 111

Individual instruction to include the study of standard literature and technique. Emphasis is placed on developing technique, repertoire and performance skills commensurate with the student's educational goals. Students are required to practice a minimum of five hours per week for each credit hour. At the conclusion of the last semester, a sophomore recital is required. A minimum grade of "B" is required to progress to the next level.

## MUP 133 GUITAR 134, 233 (2-4E) 1-2 credits 234 PREREQUISITE: MUL 161, 162

Individual instruction to include the study of standard literature and technique. Emphasis is placed on developing technique, repertoire and performance skills commensurate with the student's educational goals. Students are required to practice a minimum of five hours per week for each credit hour. At the conclusion of the last semester, a sophomore recital is required. Minimum grade of "B" is required to progress to the next level.

## MUP 141 FLUTE 142, 241 (2-4E) 1-2 credits 242

Individual instruction to include the study of standard literature and technique. Emphasis is placed on developing technique, repertoire and performance skills commensurate with the student's educational goals. Students are required to practice a minimum of five hours per week for each credit hour. At the conclusion of the last semester, a sophomore recital is required. Minimum grade of "B" is required to progress to the next level.

## MUP 143 CLARINET 144, 243 (2-4E) 1-2 credits 244

Individual instruction to include the study of standard literature and technique. Emphasis is placed on developing technique, repertoire and performance skills commensurate with the student's educational goals. Students are required to practice a minimum of five hours per week for each credit hour. At the conclusion of the last semester, a sophomore recital is required. A minimum grade of "B" is required to progress to the next level.

## MUP 145 SAXOPHONE 146, 245 (2-4E) 1-2 credits 246

Individual instruction to include the study of standard literature and technique. Emphasis is placed on developing technique, repertoire and performance skills commensurate with the

student's educational goals. Students are required to practice a minimum of five hours per week for each credit hour. At the conclusion of the last semester, a sophomore recital is required. A minimum grade of "B" is required to progress to the next level.

**MUP 161 TRUMPET**  
**162, 261 (2-4E) 1-2 credits**  
**262**

Individual instruction to include the study of standard literature and technique. Emphasis is placed on developing technique, repertoire and performance skills commensurate with the student's educational goals. Students are required to practice a minimum of five hours per week for each credit hour. At the conclusion of the last semester, a sophomore recital is required. A minimum grade of "B" is required to progress to the next level.

**MUP 171 TROMBONE**  
**172, 271 (2-4E) 1-2 credits**  
**272**

Individual instruction to include the study of standard literature and technique. Emphasis is placed on developing technique, repertoire and performance skills commensurate with the student's educational goals. Students are required to practice a minimum of five hours per week for each credit hour. At the conclusion of the last semester, a sophomore recital is required. A minimum grade of "B" is required to progress to the next level.

**MUP 175 TUBA**  
**176, 275 (2-4E) 1-2 credits**  
**276**

Individual instruction to include the study of standard literature and technique. Emphasis is placed on developing technique, repertoire and performance skills commensurate with the student's educational goals. Students are required to practice a minimum of five hours per week for each credit hour. At the conclusion of the last semester, a sophomore recital is required. A minimum grade of "B" is required to progress to the next level.

**MUP 181 PERCUSSION**  
**182, 281 (2-4E) 1-2 credits**  
**282**

Individual instruction to include the study of standard literature and technique. Emphasis is placed on developing technique, repertoire and performance skills commensurate with the student's educational goals. Students are required to practice a minimum of five hours per week for each credit hour. At the conclusion of the last semester, a sophomore recital is required. A minimum grade of "B" is required to progress to the next level.

**MUS 101 MUSIC APPRECIATION**  
**(3T) 3 credits**

This course is designed for non-music majors and requires no previous musical experience. It is a survey course that incorporates several modes of instruction including lecture, guided listening, and similar experiences involving music. The course will cover a minimum of three (3) stylistic periods, provide a multi-cultural perspective, and include both vocal and instrumental genres. Upon completion, students should be able to demonstrate a knowledge of music fundamentals, the

aesthetic/stylistic characteristics of historical periods, and an aural perception of style and structure in music. This course is offered in lecture, hybrid and on-line formats.

**MUS 103 SURVEY OF POPULAR MUSIC**  
**(1-2T) 1-2 credits**

This course provides a study of the origins, development and existing styles of popular music. Topics include ragtime, jazz, rhythm and blues, rock, country and western, folk and world music. Upon completion, students should be able to demonstrate a knowledge, understanding and an aural perception of the stylistic characteristics of popular music. This course is offered in a hybrid and lecture format.

**MUS 110 BASIC MUSICIANSHIP**  
**(3T) 3 credits**

This course is designed to provide rudimentary music knowledge and skills for the student with a limited music background. Topics include a study of notation, rhythm, scales, keys, intervals, chords and basic sight singing and ear training skills. Upon completion, students should be able to read and understand musical scores and demonstrate basic sight singing and ear training skills for rhythm, melody and harmony. Required for music majors or acceptable score on placement test (75%).

**MUS 111 MUSIC THEORY I**  
**(3T) 3 credits**

**PREREQUISITE: Minimum grade of "C" in MUS 110 or acceptable score on placement test (75%)**  
**COREQUISITE: MUS 113**

This course introduces the student to the diatonic harmonic practices in the Common Practice Period. Topics include fundamental musical materials (rhythm, pitch, scales, intervals, diatonic harmonies) and an introduction to the principles of voice leading and harmonic progression. Upon completion, students should be able to demonstrate a basic competency using diatonic harmony through analysis, writing, sight singing, dictation and keyboard skills. Open lab required. Spring; Decatur campus.

**MUS 112 MUSIC THEORY II**  
**(3T) 3 credits**

**PREREQUISITE: Minimum grade of "C" in MUS 111**  
**COREQUISITE: MUS 114**

This course completes the study of diatonic harmonic practices in the Common Practice Period and introduces simple musical forms. Topics include principles of voice leading used in three- and four- part triadic harmony and diatonic seventh chords, non-chord tones, cadences, phrases and periods. Upon completion, students should be able to demonstrate competence using diatonic harmony through analysis, writing, sight singing, dictation and keyboard skills. Open lab required. Fall; Decatur campus.

**MUS 113 MUSIC THEORY LAB I**  
**(1E) 1 credit**

**PREREQUISITE: MUS 110 or suitable placement score or permission of instructor**

**COREQUISITE: MUS 111**

This course provides the practical application of basic musical materials through sight singing; melodic, harmonic and rhythmic dictation; and keyboard harmony. Topics include intervals, simple triads, diatonic stepwise melodies, basic rhythmic patterns in simple and compound meter and four-part triadic progressions in root position. Upon completion, students should be able to write, sing and play intervals, scales, basic rhythmic patterns, diatonic stepwise melodies, simple triads and short four-part progressions in root position. Spring; Decatur campus.

## **MUS 114 MUSIC THEORY LAB II (1E)**

**1 credit**

**PREREQUISITE: MUS 113**

**COREQUISITE: MUS 112**

This course continues the practical application of diatonic musical materials through sight singing; melodic, harmonic and rhythmic dictation; and keyboard harmony. Topics include intervals, scales, diatonic melodies with triadic arpeggiations, more complex rhythmic patterns in simple and compound meter and four-part diatonic progressions in all inversions. Upon completion, students should be able to write, sing and play all intervals, rhythmic patterns employing syncopations and beat divisions, diatonic melodies and four-part progressions. Fall; Decatur campus.

## **MUS 290 INTRODUCTION TO COMMERCIAL MUSIC (2-3T)**

**2-3 credits**

This course provides an introduction to the commercial music industry and the types of careers in commercial music. Topics include music publishing, recording, contracts, agents and managers, copyrights, unions, music companies and dealers. Upon completion, students should be able to demonstrate a basic knowledge and understanding of the different components of the commercial music industry and the various career options.

## **MUS 291 MUSICAL ACOUSTICS (2-3T)**

**2-3 credits**

**PREREQUISITE: Permission of instructor**

This course is designed to acquaint the student with the nature of musical acoustics and the science of sound. Topics include terminology, symbols, the nature and transmission of sound, vibration, frequency, pitch, intervals, harmonies, resonance, consonance and dissonance. Upon completion, students should be able to demonstrate an understanding of the basic skills and concepts through the successful presentation of an individual project in musical acoustics.

## **MUS 292 SONG WRITING (3T)**

**3 credits**

**PREREQUISITE: MUS 110**

This course provides an introduction to song writing and marketing techniques. Topics include lyric writing, song structures, preparing a lead sheet, notation, rhythmic and melodic

dictation, key signatures, basic chord structures, recording, basic copyright laws and publishing. Upon completion, students should be able to compose a song, prepare a lead sheet and demo tape, apply for a copyright and market a song.

# MUSIC INDUSTRY COMMUNICATIONS (MIC)

## **MIC 100 INTRODUCTION TO MASS COMMUNICATIONS (3T)**

**3 credits**

This course provides the student with general study of mass communications and journalism. This course includes theory, development, regulation, operation, and effects upon society. Upon completion of this class, students should be able to decide the field of mass communications on which to focus.

## **MIC 153 INTRODUCTION TO RECORDING TECHNOLOGY (3T)**

**3 credits**

This course is designed to acquaint the student with basic recording fundamentals. Emphasis is placed on microphone techniques, recording principals, musician and recording engineers' code. Upon completion, students should be able to do basic analog recordings.

## **MIC 201 PUBLISHING FOR THE RECORDING INDUSTRY (3T)**

**3 credits**

This course is an introduction to the operation and functions of publishing in the recording industry.

## **MIC 250 MASS COMMUNICATIONS PRACTICUM (3T)**

**3 credits**

**PREREQUISITE: MIC 153 or instructor approval**

This course provides practical experience in media through supervised part- or full-time employment with a newspaper, radio or television station, recording studio, or public relations/advertising agency. Upon completion, students should be able to receive employment based on demonstration of their skills in their subject area.

## **MIC 251 RECORDING STUDIO PRODUCTION (3T)**

**3 credits**

**PREREQUISITE: MIC 153 or instructor approval**

This course is designed to acquaint the student with the functional roles of the commercial recording studio. Emphasis will be placed on studio production projects, and include a study of contracts, managers, agents, recording rights, copyright laws, unions, publishers, and music companies. Upon completion, students should be able to produce studio quality recordings and have an understanding of the music industry.

## **MIC 253 COMPUTER LITERACY FOR THE MUSICIAN I (3T)**

**3 credits**

This course is designed to teach musicians how to use computers for music writing, ear training, theory, and sequencing. Topics include an introduction to MIDI, sequencing, Master Tracks Pro,

Studio 3.1 and 4.0, Cakewalk and Musicator. Upon completion, students should have an understanding of MIDI, Charting and Sequencing on the computer.

**MIC 254 COMPUTER LITERACY FOR THE MUSICIAN II (3T) 3 credits**

**PREREQUISITE:** MIC 253 or instructor approval

This course is designed to teach advanced computer sequencing techniques. Emphasis is placed on projects and the use of computer sequencing software and hardware. Students should be able to sequence and perform advanced editing using MIDI.

**MIC 255 DIGITAL RECORDING (3T) 3 credits**

**PREREQUISITE:** MIC 253 or instructor approval

This course is designed to teach Digital Recording using hard disk wave recording techniques. Emphasis is placed on projects and the use of Digital Recording software and hardware. Upon completion, students should be able to do recordings on the "Special Audio Engine" and other software with masters of digital quality.

**MIC 293 MUSIC NOTATION (3T) 3 credits**

**PREREQUISITE:** MIC 253 or instructor approval

This course is designed to teach students the music program for charting and writing music. Emphasis will be placed on the use of the software program "FINALE". Upon completion, students should be able to chart and write music using industry standards.

**NURSING ASSISTANT (NAS)**

**NAS 100 FUNDAMENTALS OF LONG TERM CARE (3T, 3C) 4 credits**

This course fulfills the seventy-five (75) hour Omnibus Budget Reconciliation Act (OBRA) requirements for training of long-term care nursing assistants in preparation for certification through competency evaluation. Emphasis is placed on the development of the knowledge, attitudes, and skills required of the long-term care nursing assistant. Upon completion of this course, the student should demonstrate satisfactory performance on written examinations and clinical skills.

**NURSING (NUR)**

**NUR 102 FUNDAMENTALS OF NURSING (3T, 6S/3C) 6 credits**

**COREQUISITE:** NUR 103 and NUR 104

This course provides opportunities to develop competencies necessary to meet the needs of individuals throughout the lifespan in a safe, legal, and ethical manner using the nursing process. Students learn concepts and theories basic to the art and science of nursing. The role of the nurse as a member of the healthcare team is emphasized. Students are introduced to the concepts of client needs, safety, communication, teaching/

learning, critical thinking, ethical-legal, cultural diversity, nursing history, and the program's philosophy of nursing. Additionally, this course introduces psychomotor nursing skills needed to assist individuals in meeting basic human needs. Skills necessary for maintaining microbial, physical, and psychological safety are introduced along with skills needed in therapeutic interventions. At the conclusion of this course, students demonstrate competency in performing basic nursing skills for individuals with common health alterations.

**NUR 103 HEALTH ASSESSMENT (3S) 1 credit**

**COREQUISITE:** NUR 102 and NUR 104

This course is designed to provide students the opportunity to learn and practice history taking and physical examination skills with individuals of all ages, with emphasis on the adult. The focus is on symptom analysis along with physical, psychosocial, and growth and development assessments. Students will be able to utilize critical thinking skills in identifying health alterations, formulating nursing diagnoses and documenting findings appropriate to nursing.

**NUR 104 INTRODUCTION TO PHARMACOLOGY (3S) 1 credit**

**COREQUISITE:** NUR 102 and NUR 103

This course provides opportunities to develop competencies necessary to meet the needs of individuals throughout the lifespan in a safe, legal, and ethical manner using the nursing process. This course introduces students to basic principles of pharmacology and the knowledge necessary to safely administer medication. Course content includes legal implications, pharmacokinetics, pharmacodynamics, calculations of drug dosages, medication administration, and an overview of drug classifications. Students will be able to calculate and administer medications.

**NUR 105 ADULT NURSING (5T, 3S/6C) 8 credits**

**PREREQUISITE:** NUR 102, NUR 103 and NUR 104

**COREQUISITE:** NUR 106

This course provides opportunities to develop competencies necessary to meet the needs of individuals throughout the lifespan in a safe, legal, and ethical manner using the nursing process. Emphasis is placed on providing care to individuals undergoing surgery, fluid and electrolyte imbalance, and common alterations in respiratory, musculoskeletal, gastrointestinal, cardiovascular, and endocrine. Nutrition, pharmacology, communication, cultural, and community concepts are integrated.

**NUR 106 MATERNAL AND CHILD NURSING (4T, 3C) 5 credits**

**PREREQUISITE:** NUR 102, NUR 103, and NUR 104

**COREQUISITE:** NUR 105

This course focuses on the role of the nurse in meeting the physiological, psychosocial, cultural and developmental needs of

the maternal and child client. Course content includes antepartal, intrapartal, and postpartal care, complications of pregnancy, newborn care, human growth and development, pediatric care, and selected pediatric alterations. Nutrition, pharmacology, cultural diversity, use of technology, communication, anatomy and physiology review, medical terminology, critical thinking, and application of the nursing process are integrated throughout this course. Upon completion of this course, students will be able to provide and manage care for maternal and pediatric clients in a variety of settings.

## **NUR 107 ADULT/CHILD NURSING (5T, 9C)**

**8 credits**

**PREREQUISITE: NUR 105 and NUR 106**  
**COREQUISITE: NUR 108 and NUR 109**

This course provides students with opportunities to develop competencies necessary to meet the needs of individuals throughout the lifespan in a safe, legal, and ethical manner using the nursing process in a variety of settings. Emphasis is placed on providing care to individuals experiencing complex alterations in sensory/perceptual, reproductive, endocrine, genitourinary, neurological, immune, cardiovascular, and lower gastrointestinal systems. Additional instruction is provided for care for clients experiencing burns, cancer, and emergent conditions. Nutrition, pharmacology, therapeutic communication, community, cultural diversity, health promotion, error prevention, critical thinking, impacts on maternal and child clients are integrated throughout the course.

## **NUR 108 PSYCHOSOCIAL NURSING (2T, 3C)**

**3 credits**

**PREREQUISITE: NUR 105 and NUR 106**  
**COREQUISITE: NUR 107 and NUR 109**

This course is designed to provide an overview of psychosocial adaptation and coping concepts used when caring for clients with acute and chronic alterations in mental health in a variety of settings. Topics include therapeutic communication skills, normal and abnormal behaviors, treatment modalities, and developmental needs. Upon completion of this course, students will demonstrate the ability to assist clients in maintaining psychosocial integrity through the use of the nursing process.

## **NUR 109 ROLE TRANSITION FOR THE PRACTICAL NURSE (2T, 3S)**

**3 credits**

**PREREQUISITE: NUR 105 and NUR 106**  
**COREQUISITE: NUR 107 and NUR 108**

This course provides students with opportunities to gain knowledge and skills necessary to transition from student to practicing nurse. Content includes a discussion of current issues in health care, practical nursing leadership and management, professional practice issues, and transition into the workplace. Emphasis is placed on NCLEX-PN test-taking skills, computer-assisted simulations and practice tests, development of a prescriptive plan for remediation, and review of selective content, specific to the practice of practical nursing.

## **NUR 111 PARAMEDIC TO ADN MOBILITY (8T, 3S, 9C)**

**12 Credits**

**PREREQUISITE: BIO 201, BIO 202, BIO 220, PSY 200, MTH 100 and ENG 101**

This course is designed to assist the experienced licensed EMT-P in transition to the role of the associate degree nurse. Emphasis is placed on basic and advanced nursing skills; the nursing process; communication; selected theories needed to develop competencies necessary to meet the needs of individuals through the lifespan in a safe, legal, and ethical manner; concepts related to psychosocial needs of individuals, and the role of the registered nurse. Upon completion of the course and the exit exam, students will be able to articulate into the ADN program. Clinicals required in medical/surgical; obstetrics, and pediatrics. (Lab and Clinical required) Fourteen (14) additional hours of nursing credit are awarded following successful completion of NUR 111 and a score of 75 or higher on the comprehensive standardized examination.

## **NUR 112 FUNDAMENTALS CONCEPTS OF NURSING (4T, 6S, 3C)**

**7 credits**

This course teaches foundational knowledge of nursing concepts and clinical decision making to provide evidence-based nursing care. Content includes, but are not limited to, healthcare delivery systems, professionalism, health promotion, psycho-social well-being, functional ability, gas exchange, safety, pharmacology, and coordinator/manager of care.

## **NUR 113 NURSING CONCEPTS I (4T, 3S, 9C)**

**8 credits**

This course teaches foundational knowledge of nursing concepts and clinical decision making to provide evidence-based nursing care. Content includes, but are not limited to, coordinator/manager of care, perfusion, oxygenation, infection, inflammation, tissue integrity, nutrition, elimination, mobility/immobility, cellular regulation, acid/base balance, and fluid/electrolyte balance.

## **NUR 114 NURSING CONCEPTS II (5T, 9C)**

**8 credits**

This course teaches foundational knowledge of nursing concepts and clinical decision making to provide evidence-based nursing care. Content includes, but are not limited to, coordinator/manager of care, sexuality, reproduction and child-bearing, infection, inflammation, sensory perception, perfusion, cellular regulation, mood disorders and affect, renal fluid/electrolyte balance, and medical emergencies.

## **NUR 115 EVIDENCE BASED CLINICAL REASONING (1T, 3C)**

**2 credits**

**CO-REQUISITE: NUR 114**

This course provides students with opportunities to collaborate with various members of the health care team in a family and community context. Students utilize clinical reasoning to assimilate concepts within the individual, health, and nursing domains.

## **NUR 200 NURSING CAREER MOBILITY ASSESSMENT**

**(3T, 3S, 3C) 5 credits**  
This course focuses on application of nursing science to assist the Licensed Practical Nurse (LPN) transitioning into the role of the associate degree nurse (ADN). Emphasis in this course is placed on evidenced based clinical decision making and nursing care provided in a family and community context for a variety of health alterations across the lifespan. Upon successful completion of the course, students will be able to articulate into the ADN program.

**NUR 201 NURSING THROUGH THE LIFESPAN I (3T, 6C) 5 credits**  
**PREREQUISITE: As required by program**  
This course provides opportunities to develop competencies necessary to meet the needs of individuals throughout the lifespan in a safe, legal, and ethical manner using the nursing process. Students manage and provide collaborative care to clients who are experiencing selected alterations in gastrointestinal, reproductive, sensory, and endocrine systems in a variety of settings. Additional instruction is provided for oncology, mental health, teaching/learning concepts, and advanced dosage calculations, nutrition, pharmacology, communication, cultural, and community concepts are integrated.

**NUR 202 NURSING THROUGH THE LIFESPAN II (3T, 9C) 6 credits**  
**PREREQUISITE: As required by program**  
This course builds upon previous instruction and provides additional opportunities to develop competencies necessary to meet the needs of individuals throughout the lifespan in a safe, legal, and ethical manner using the nursing process. Students manage and provide collaborative care to clients who are experiencing selected alterations in cardiovascular, hematologic, immune, and genitourinary systems in a variety of settings. Additional instruction is provided for psychiatric disorders and high-risk obstetrics. Teaching/learning concepts, advanced dosage calculations, nutrition, pharmacology, communication, cultural, and community concepts are integrated.

**NUR 203 NURSING THROUGH THE LIFESPAN III (4T, 6C) 6 credits**  
**PREREQUISITE: As required by program**  
This course builds upon previous instruction and provides additional opportunities to develop competencies necessary to meet the needs of individuals throughout the lifespan in a safe, legal, and ethical manner using the nursing process. Students manage and provide collaborative care to clients who are experiencing selected alterations in cardiovascular, respiratory, and neurological systems in a variety of settings. Additional instruction is provided in care for selected mental health disorders, selected emergencies, multiple organ dysfunction syndrome and related disorders. Teaching/learning concepts, advanced dosage calculations, nutrition, pharmacology, communication, cultural, and community concepts are integrated.

**NUR 204 ROLE TRANSITION FOR THE REGISTERED NURSE (2T, 6C) 4 credits**  
**PREREQUISITE: As required by program**  
This course provides students with opportunities to gain knowledge and skills necessary to transition from student to registered nurse. Content includes current issues in health care, nursing leadership and management, professional practice issues for registered nurses, and transition into the workplace. Additional instruction is provided for preparing for the NCLEX-RN.

**NUR 209 CONCEPTS FOR HEALTHCARE TRANSITION STUDENTS (6T, 3S, 9C) 10 credits**  
This course focuses on the application of nursing concepts to assist healthcare professionals to transition into the role of the registered nurse. Emphasis in this course is placed on evidenced based clinical decision making and nursing concepts provided in a family and community context for a variety of health alterations across the lifespan. Upon successful completion of this course, students will be awarded 15 hours of non-traditional credit.

**NUR 211 ADVANCED NURSING CONCEPTS (4T, 9C) 7 credits**  
This course provides opportunities for students to integrate advanced nursing care concepts within a family and community context. Content includes, but are not limited to, manager of care for advanced concepts in safety, fluid/electrolyte balance, cellular regulation, gas exchange, psychosocial well being, growth and development, perfusion, and medical emergencies.

**NUR 221 ADVANCED EVIDENCED BASED CLINICAL REASONING (3T, 12C) 7 credits**  
This course provides students with opportunities to demonstrate graduate competencies through didactic and preceptorship experiences necessary to transition to the profession of nursing. Content in nursing and healthcare domains includes management of care, professionalism, and healthcare delivery systems.

## OFFICE ADMINISTRATION (OAD)

**OAD 103 INTERMEDIATE KEYBOARDING (3T) 3 credits**  
This course is designed to assist the student in increasing speed and accuracy using the touch method of keyboarding through classroom instruction and lab exercises. Emphasis is on the production of business documents such as memoranda, letters, reports, tables, and outlines from unarranged rough draft to acceptable format. Upon completion, the student should be able to demonstrate proficiency and an acceptable rate of speed and accuracy, as defined by the course syllabus, in the production of business documents.

## OAD 217 OFFICE MANAGEMENT

(3T)

3 credits

This course is designed to develop skills necessary for supervision of office functions. Emphasis is on issues relating to the combination of people and technology in achieving the goals of business in a culturally diverse workplace, including the importance of office organization, teamwork, workplace ethics, office politics, and conflict-resolution skills. Upon completion, the student should be able to demonstrate effective supervision in the modern office.

## ORIENTATION (ORI)

## ORI 105 ORIENTATION AND STUDENT SUCCESS

(3T)

3 credits

This course is designed to orient students to the college experience by providing them with tools needed for academic and personal success. Topics include: developing an internal focus of control, time management and organizational skills, critical and creative thinking strategies, personal and professional maturity, and effective study skills for college and beyond.

## ORI 110 FRESHMAN SEMINAR

(1T)

1 credit

This course is designed to provide students the opportunity to develop and enhance their technology skills, explore careers and majors, and develop a personalized program of study that will map out their educational and career goals through a portfolio. Primary focus will be placed on: Meeting and working with the student's advisor to develop a strong plan of study; enhancing their skills in locating and gathering information; engaging in critical thinking through reflective journals in their portfolio.

## PARALEGAL (PRL)

## PRL 101 INTRODUCTION TO PARALEGAL STUDY

(3T)

3 credits

**PREREQUISITE:** Grade of "C" or better in ENG 101 or satisfactory ACT, SAT, or placement score

This course introduces the paralegal profession and the legal system. Topics include an overview of major areas of legal practice, ethics, legal analysis and research, professional development including certification and employment, and related topics. Upon completion, students should be able to explain the role of the paralegal and identify the skills, knowledge, and ethics required of legal assistants.

**\*Note: Students must complete PRL 101 and PRL 102 with a grade of "C" or higher prior to taking any other PRL course.**

## PRL 102 BASIC LEGAL RESEARCH AND WRITING

(3T)

3 credits

**PREREQUISITE:** Grade of "C" or better in ENG 101 or

satisfactory ACT, SAT, or placement score

This course introduces the techniques of legal research and writing. Emphasis is placed on locating, analyzing, applying, and validating sources of law. Topics include legal research, legal writing, proper citation, and electronic research. Upon completion, students will demonstrate the ability to perform legal research and writing assignments using techniques covered in this course.

**\*Note: Students must complete PRL 101 and PRL 102 with a grade of "C" or higher prior to taking any other PRL course.**

## PRL 150 COMMERCIAL LAW

(3T)

3 credits

**PREREQUISITE:** Completion of PRL 101 and PRL 102 with a grade of "C" or higher.

This course covers contracts, selected portions of the Uniform Commercial Code, and forms of business organization. Upon completion, students should be able to apply the elements of a contract, prepare various business documents and understand the role of commercial paper.

## PRL 160 CRIMINAL LAW AND PROCEDURE

(3T)

3 credits

**PREREQUISITE:** Completion of PRL 101 and PRL 102 with a grade of "C" or higher.

This course introduces substantive and procedural criminal law including elements of state and federal crimes, defenses, constitutional issues, pre-trial process, and other related topics. Upon completion, students should be able to explain the elements of specific crimes and assist an attorney in preparing a criminal case.

## PRL 192 SELECTED TOPICS IN PARALEGAL

(3T)

3 credits

**PREREQUISITE:** Completion of PRL 101 and PRL 102 with a grade of "C" or higher.

This course provides an opportunity to explore areas of current interest in specific program or discipline areas. Emphasis is placed on subject matter appropriate to the program or discipline. Upon completion, students will be able to demonstrate an understanding of the specific area of study.

## PRL 193 SELECTED TOPICS IN PARALEGAL II

(3T)

3 credits

**PREREQUISITE:** Completion of PRL 101 and PRL 102 with a grade of "C" or higher.

This course provides an opportunity to explore areas of current interest in specific program or discipline areas. Emphasis is placed on subject matter appropriate to the program or discipline. Upon completion, students will be able to demonstrate an understanding of the specific area of study.

## PRL 210 REAL PROPERTY LAW

(3T)

3 credits

**PREREQUISITE:** Completion of PRL 101 and PRL 102 with a

**grade of "C" or higher.**

This course emphasizes the study of real property law. Topics include the distinction between real and personal property, various estates and interests in property, and the mechanics of conveyance, encumbrances, and closing procedure. Upon completion, students will demonstrate the ability to identify estates, forms of deeds, recording requirements, the closing process, and procedures used to enforce rights to real property.

**PRL 230 DOMESTIC LAW**

**(3T)**

**3 credits**

**PREREQUISITE: Completion of PRL 101 and PRL 102 with a grade of "C" or higher.**

This course covers laws governing domestic relations. Topics include marriage, separation, divorce, child custody, support, property division, adoption, and other related topics. Upon completion, students will demonstrate the ability to draft divorce and support pleadings, separation agreements, and calculate child support according to the guidelines adopted by the state.

**PRL 240 WILLS, TRUSTS, AND ESTATES**

**(3T)**

**3 credits**

**PREREQUISITE: Completion of PRL 101 and PRL 102 with a grade of "C" or higher.**

This course covers wills, trusts, and inheritance. Topics include types of wills, the law of intestacy (inheritance), probating estates, and alternatives to probate. The course also covers trusts, medical directives, and associated litigation. Upon completion, students will demonstrate the ability to draft simple wills, prepare estate forms, understand administration of estates, and understand terms regarding trusts.

**PRL 250 BANKRUPTCY AND COLLECTIONS**

**(3T)**

**3 credits**

**PREREQUISITE: Completion of PRL 101 and PRL 102 with a grade of "C" or higher.**

This course provides an overview of the laws of bankruptcy and the rights of creditors and debtors. Topics include bankruptcy procedures and estate management, attachment, claim and delivery, repossession, foreclosure, collection, garnishment, and post-judgment collection procedure. Upon completion, students should be able to prepare and file bankruptcy forms, collection letters, statutory liens and collection of judgments.

**PRL 262 CIVIL LAW AND PROCEDURE**

**(3T)**

**3 credits**

**PREREQUISITE: Completion of PRL 101 and PRL 102 with a grade of "C" or higher.**

This course examines the Federal Rules of Civil Procedure, the Alabama Rules of Civil Procedure, and trial procedure. Upon completion, students will be able to explain the various stages of the litigation process and demonstrate the ability to prepare a trial notebook for litigation purposes.

**PRL 282 LAW OFFICE MANAGEMENT AND PROCEDURES**

**(3T)**

**3 credits**

**PREREQUISITE: Completion of PRL 101 and PRL 102 with a grade of "C" or higher.**

This course focuses on the organization and policies and procedures of a law office. Upon completion, students should be able to establish and maintain various law office systems, monitor case progress and supervise non-lawyer personnel. The focus of this class is the legal software commonly used to help manage the work, timekeeping calendaring, case management, and billing in law offices.

**PRL 291 PARALEGAL INTERNSHIP**

**(3L)**

**3 credits**

**PREREQUISITE: Completion of PRL 101, PRL 102, and PRL 262 with a grade of "C" or higher, and permission of the Program Director**

This course provides students opportunities to work in paid or unpaid positions in which they apply paralegal skills and knowledge. This course requires a minimum of 150 hours of practical experience in the legal field. Upon completion, students will be able to apply workplace competences obtained from the PRL curriculum.

**PHYSICAL EDUCATION (PED)**

**PED 100 FUNDAMENTALS OF FITNESS**

**(3T)**

**3 credits**

This lecture course includes the basic principles of physical education and physical fitness. It explores psychological and physiological effects of exercise and physical fitness, including effects on the human skeleton, muscle development, respiration and coordination. It is reviewed as an introduction to such laboratory courses as slimnastics, weight training, and conditioning. This course may also include fitness evaluation, development of individual fitness programs, and participation in fitness activities.

**PED 101 SLIMNASTICS (Beginning)**

**(2A)**

**1 credit**

This course provides an individualized approach to physical fitness, wellness, and other health-related factors. Emphasis is placed on the scientific basis for setting up and engaging in personalized physical fitness programs. Upon completion, students should be able to set up and implement an individualized physical fitness program.

**PED 102 SLIMNASTICS (Intermediate)**

**(2A)**

**1 credit**

This course is an intermediate-level class. Topics include specific exercises contributing to fitness and the role exercise plays in developing body systems, nutrition, and weight control. Upon completion, students should be able to implement and evaluate an individualized physical fitness program.

**PED 103 WEIGHT TRAINING (Beginning)**

**(2A)**

**1 credit**

This course introduces the basics of weight training. Emphasis is

placed on developing muscular strength, muscular endurance, and muscle tone. Upon completion, students should be able to establish and implement a personal weight-training program.

### **PED 104 WEIGHT TRAINING (Intermediate)**

**(2A)**

**1 credit**

This course covers advanced levels of weight training. Emphasis is placed on meeting individual training goals and addressing weight training needs and interests. Upon completion, students should be able to establish and implement an individualized advanced weight-training program

### **PED 105 PERSONAL FITNESS**

**(2A)**

**1 credit**

This course is designed to provide the student with information allowing him/her to participate in a personally developed fitness program. Topics include cardiovascular, strength, muscular endurance, flexibility and body composition. Fitness Activity.

### **PED 106 AEROBICS**

**(2A)**

**1 credit**

This course introduces a program of cardiovascular fitness involving continuous, rhythmic exercise. Emphasis is placed on developing cardiovascular efficiency, strength, and flexibility and on safety precautions. Upon completion, students should be able to select and implement a rhythmic aerobic exercise program. Rhythmic Activity.

### **PED 107 AEROBICS DANCE (Beginning)**

**(2A)**

**1 credit**

**PREREQUISITE: PED 106 and/or as required by program.**

This course introduces the fundamentals of step and dance aerobics. Emphasis is placed on basic stepping up, basic choreographed dance patterns, cardiovascular fitness, and upper body, floor, and abdominal exercises. Upon completion, students should be able to participate in basic dance aerobics. Rhythmic activity.

### **PED 108 AEROBICS DANCE (INTERMEDIATE)**

**(2A)**

**1 credit**

**PREREQUISITE: PED 107 and/or as required by program.**

This course provides a continuation of step aerobics. Emphasis is placed on a wide variety of choreographed step and dance patterns; cardiovascular fitness; and upper body, abdominal, and floor exercises. Upon completion, students should be able to participate in and design an aerobics routine. Rhythmic activity.

### **PED 109 JOGGING**

**(2A)**

**1 credit**

This course covers the basic concepts involved in safely and effectively improving cardiovascular fitness. Emphasis is placed on walking, jogging, or running as a means of achieving fitness. Upon completion, students should be able to understand and appreciate the benefits derived from these activities. Fitness Activity.

### **PED 118 GENERAL CONDITIONING (Beginning)**

**(2A)**

**1 credit**

This course provides an individualized approach to general conditioning utilizing the five major components. Emphasis is placed on the scientific basis for setting up and engaging in personalized physical fitness and conditioning programs. Upon completion, students should be able to set up and implement an individualized physical fitness and conditioning program. Fitness Activity.

### **PED 119 GENERAL CONDITIONING (Intermediate)**

**(2A)**

**1 credit**

**PREREQUISITE: PED 118 and/or as required by program.**

This course is an intermediate-level fitness and conditioning program class. Topics include specific exercises contributing to fitness and the role exercise plays in developing body systems. Upon completion, students should be able to implement and evaluate an individualized physical fitness and conditioning program.

### **PED 120 TECHNIQUES OF DUAL AND INDIVIDUAL SPORTS**

**(2T)**

**2 credits**

This course introduces the fundamentals of popular dual and individual sports. Emphasis is placed on rules, equipment, and motor skills used in various sports. Upon completion, students should be able to demonstrate knowledge of the sports covered.

### **PED 121 BOWLING (Beginning)**

**(2A)**

**1 credit**

This course introduces the fundamentals of bowling. Emphasis is placed on ball selection, grips, stance, and delivery along with rules and etiquette. Upon completion, students should be able to participate in recreational bowling.

### **PED 122 BOWLING (Intermediate)**

**(2A)**

**1 credit**

**PREREQUISITE: PED 121 or Permission of instructor**

This course covers more advanced bowling techniques. Emphasis is placed on refining basic skills and performing advanced shots, spins, pace, and strategy. Upon completion, students should be able to participate in competitive bowling. Individual and dual sport activity.

### **PED 123 GOLF (Beginning)**

**(2A)**

**1 credit**

This course emphasizes the fundamentals of golf. Topics include the proper grips, stance, alignment, swings for the short and long game, putting, and the rules and etiquette of golf. Upon completion students should be able to perform the basic golf shots and demonstrate a knowledge of the rules and etiquette of golf. Individual and dual sport activity.

### **PED 124 GOLF (Intermediate)**

**(2A)**

**1 credit**

**PREREQUISITE: PED 123 and/or as required by program.**

This course covers the more advanced phases of golf. Emphasis is placed on refining the fundamental skills and learning more

advanced phases of the game such as a club selection, trouble shots, and course management. Upon completion, students should be able to demonstrate the knowledge and ability to play a recreational round of golf. This is an individual and dual sport activity.

**PED 126 RECREATIONAL GAMES**

(2A)

**1 credit**

This course is designed to give an overview of a variety of recreational games and activities. Emphasis is placed on the skills and rules necessary to participate in a variety of lifetime recreational games. Upon completion, students should be able to demonstrate an awareness of the importance of participating in lifetime recreational activities. Rhythmic activity.

**PED 131 BADMINTON (Beginning)**

(2A)

**1 credit**

This course covers the fundamentals of badminton. Emphasis is placed on the basics of serving, clears, drops, drives, smashes and the rules and strategies of singles and doubles. Upon completion, students should be able to apply these skills in playing situations.

**PED 133 TENNIS (Beginning)**

(2A)

**1 credit**

This course emphasizes the fundamentals of tennis. Topics include basic strokes, rules, etiquette, and court play. Upon completion, students should be able to play recreational tennis.

**PED 134 TENNIS (Intermediate)**

(2A)

**1 credit**

**PREREQUISITE: PED 133 and/or as required by program.**

This course emphasizes the refinement of playing skills. Topics include the development of fundamentals, learning advanced serves, strokes and pace and strategies in singles and doubles play. Upon completion, students should be able to play competitive tennis.

**PED 155 SELF-DEFENSE**

(2A)

**1 credit**

This course is designed to aid students in developing rudimentary skills in self-defense. Emphasis is placed on stances, blocks, punches, and kicks as well as non-physical means of self-defense. Upon completion, students should be able to demonstrate basic self-defense techniques of a physical and non-physical nature. Rhythmic Activity.

**PED 160 SOCIAL DANCE**

(2A)

**1 credit**

This course introduces the fundamentals of popular social dance. Emphasis is placed on basic social dance techniques, dances, and a brief history of social dance. Upon completion, students should be able to demonstrate specific dance skills and perform some dances. Rhythmic activity.

**PED 163 SQUARE DANCING**

(2A)

**1 credit**

This course introduces the terminology and skills necessary to perform square dancing. Topics include working from squared sets-squared circles to squared throughs, right and left throughs, and Dixie Chains. Upon completion, students should be able to perform square dance routines and recognize the calls made for all formations. Rhythmic activity.

**PED 171 BASKETBALL (Beginning)**

(2A)

**1 credit**

This course covers the fundamentals of basketball. Emphasis is placed on skill development, knowledge of the rules, and basic game strategy. Upon completion, students should be able to participate in recreational basketball.

**PED 172 BASKETBALL**

(2A)

**1 credit**

**PREREQUISITE: PED 171 and/or as required by program.**

This course covers more advanced basketball techniques. Emphasis is placed on refining skills and developing more advanced strategies and techniques. Upon completion, students should be able to play basketball at a competitive level.

**PED 176 VOLLEYBALL (Beginning)**

(2A)

**1 credit**

This course covers the fundamentals of volleyball. Emphasis is placed on the basics of serving, passing, setting, spiking, blocking, and the rules and etiquette of volleyball. Upon completion, students should be able to participate in recreational volleyball.

**PED 177 VOLLEYBALL (Intermediate)**

(2A)

**1 credit**

**PREREQUISITE: PED 176 and/or as required by program.**

This course covers more advanced volleyball techniques. Emphasis is placed on refining skills and developing more advanced strategies and techniques. Upon completion, students should be able to participate in competitive volleyball.

**PED 181 BASEBALL (Beginning)**

(2A)

**1 credit**

This course covers the fundamentals of baseball. Emphasis is placed on skill development, knowledge of the rules and basic game strategy. Upon completion, students should be able to participate in recreational baseball.

**PED 182 BASEBALL (Intermediate)**

(2A)

**1 credit**

This course covers more advanced baseball techniques. Emphasis is placed on refining skills and developing more advanced strategies and techniques. Upon completion, students should be able to play baseball at a competitive level.

**PED 186 SOFTBALL (Beginning)**

(2A)

**1 credit**

This course introduces the fundamental skills and rules of softball. Emphasis is placed on proper techniques and strategies

for playing softball. Upon completion, students should be able to participate in recreational softball. Team sport activity.

**PED 187 SOFTBALL (Intermediate)**  
**(2A)**

**1 credit**

This course presents advanced skills and competitive practice in softball. Emphasis is placed on proper techniques and strategies for playing softball. Upon completion, students should be able to participate in competitive softball.

**PED 188 YOGA**  
**(2A)**

**1 credit**

This course introduces basic instruction in yoga for beginners. Emphasis is placed on instruction in gentle stretching, breathing practices, progressive deep relaxation, and posture. Upon completion, students should be able to participate in and appreciate the benefits of the activity. Rhythmic activity.

**PED 191 TEAM SPORTS**  
**(2A)**

**1 credit**

This course covers the basic concepts involved in team sport competition. Emphasis will be placed on refining basic skills, rules and regulations, officiating, and team play. Upon completion, students should be able to participate and implement an intramural program.

**PED 200 FOUNDATIONS OF PHYSICAL EDUCATION**  
**(3T)**

**3 credits**

In this course, the history, philosophy, and objectives of health, physical education, and recreation are studied with emphasis on the physiological, sociological, and psychological values of physical education. It is required of all physical education majors.

**PED 216 SPORTS OFFICIATING**  
**(3T)**

**3 credits**

This course surveys the basic rules and mechanics of officiating a variety of sports, including both team and individual sports. In addition to classwork, students will receive at least 3 hours of practical experience in officiating.

**PED 226 HIKING**  
**(2A)**

**1 credit**

This course provides instruction on how to equip and care for one's self on the trail. Topics include clothing, hygiene, trail ethics, and necessary equipment. Upon completion, students should be able to successfully participate in nature trail hikes. Fitness Activity.

**PED 227 ANGLING**  
**(2A)**

**1 credit**

This course introduces the sport of angling. Emphasis is placed on fishing with the use of artificial lures. Upon completion, students should be able to cast and retrieve using baitcaster and spinning reels and identify the various types of artificial lures.

**PED 236 CANOEING**

**(2A)**

**1 credit**

This course provides basic instruction for the beginning canoeist. Emphasis is placed on safe and correct handling of the canoe and rescue skills. Upon completion, students should be able to demonstrate basic canoeing, safe-handling, and self-rescue skills.

**PED 245 CYCLING**  
**(2A)**

**1 credit**

This course is designed to promote physical fitness through cycling. Emphasis is placed on selection and maintenance of the bicycle gear shifting, pedaling techniques, safety procedures, and conditioning exercises necessary for cycling. Upon completion, students should be able to demonstrate safe handling of a bicycle for recreational use. Fitness Activity.

**PED 246 CAMPING**  
**(2A)**

**1 credit**

This course is designed to acquaint the beginning camper with outdoor skills. Topics include camping techniques such as cooking and preserving food, safety, and setting up camp. Upon completion, students should be able to set up camp sites in field experiences using proper procedures.

**PED 251 VARSITY BASKETBALL**  
**(2A)**

**1 credit**

**PREREQUISITE: Permission of instructor**

This course covers advanced fundamentals of basketball. Emphasis is placed on skill development, knowledge of the rules and basic game strategy. Upon completion, students should be able to participate in competitive basketball.

**PED 252 VARSITY BASEBALL**  
**(2A)**

**1 credit**

**PREREQUISITE: Permission of instructor**

This course covers advanced baseball techniques. Emphasis is placed on refining skills and developing more advanced strategies and techniques. Upon completion, students should be able to play baseball at a competitive level.

**PED 254 VARSITY SOFTBALL**  
**(2A)**

**1 credit**

**PREREQUISITE: Permission of instructor**

This course introduces the fundamental skills and rules of softball. Emphasis is placed on proper techniques and strategies for playing softball. Upon completion, students should be able to play competitive softball.

**PED 257 VARSITY CHEERLEADING**  
**(2A)**

**1 credit**

**PREREQUISITE: Permission of instructor**

This course covers advanced co-ed cheerleading techniques. Emphasis is placed on refining skills and improving all areas related to co-ed cheerleading including: knowledge of safety techniques, partner stunts, tumbling, basket tosses, pyramids, motions, physical conditioning, and mental preparation. Upon completion of this program, students should be able to

participate in a competitive program at the university level.

### PHILOSOPHY (PHL)

**PHL 106 INTRODUCTION TO PHILOSOPHY (3T) 3 credits**

This course is an introduction to the basic concepts of philosophy. The literary and conceptual approach of the course is balanced with emphasis on approaches to ethical decision making. The student should have an understanding of major philosophical ideas in an historical survey from the early Greeks to the modern era.

**PHL 206 ETHICS AND SOCIETY (3T) 3 credits**

This course involves the study of ethical issues which confront individuals in the course of their daily lives. The focus is on the fundamental questions of right and wrong, of human rights, and of conflicting obligations. The student should be able to understand and be prepared to make decisions in life regarding ethical issues.

### PHYSICAL SCIENCE (PHS)

**PHS 111 PHYSICAL SCIENCE (3T, 2E) 4 credits**

This course provides an introduction to the basic principles of geology, oceanography, meteorology, and astronomy for students who do not intend to major in science or engineering. Laboratory is required.

**PHS 112 PHYSICAL SCIENCE II (3T, 2E) 4 credits**

**PREREQUISITE: MTH 098 Elementary Algebra**  
This course provides an introduction to the principles of chemistry and physics for students who do not intend to major in science or engineering. Laboratory is required.

**PHS 120 ENVIRONMENTAL SCIENCE (3T, 2E) 4 credits**

This course is an interdisciplinary course intended for non-science majors who desire an introduction to environmental science. The environment will be studied with an emphasis on such topics as air, soil, water, wildlife, forestry, and solid waste pollution. Laboratory will include both field studies and experimentation.

**PHS 230 INTRODUCTION TO METEOROLOGY (3T, 2E) 4 credits**

This course is an introductory survey of meteorology emphasizing the hydrologic cycle, cloud formation, weather maps, forecasting, and wind systems. Local weather systems will be given detailed study. Laboratory is required.

### PHYSICAL THERAPIST ASSISTANT (PTA)

**PTA 200 PHYSICAL THERAPY ISSUES AND TRENDS (2T) 2 credits**

**PREREQUISITE: Admission to the PTA Program**

This is an introductory course to the trends and issues in physical therapy. Emphasis is placed on areas such as history, practice issues, psychosocial aspects of illness and cultural diversity. Upon completion, the student should be able to discuss trends and issues relevant to physical therapy.

**PTA 201 PHYSICAL THERAPY ASSISTANT SEMINAR (2T) 2 credits**

This course is a continuing study of issues and trends in physical therapy practice. Emphasis is placed on issues such as licensure, job skills, board exam review, practitioner roles, legal and ethical issues. Upon completion, the student should have acquired necessary skills for transition from student to practitioner.

**PTA 202 PTA COMMUNICATION SKILLS (2T) 2 credits**

This course is the study of verbal and nonverbal communication and documentation in health care. Emphasis will be placed on terminology, format, computer usage, reimbursement, interpersonal communication, and legal issues. Upon completion, the student should be able to discuss and demonstrate communication methods for achieving effective interaction with patients, families, the public and other health care providers.

**PTA 220 FUNCTIONAL ANATOMY AND KINESIOLOGY (3T) 3 credits**

**COREQUISITE: PTA 221**

This course provides an in-depth, clinically oriented study of functional anatomy. Emphasis is placed on the musculoskeletal system, nervous system, and study of human movement. Upon completion of the course, the student should be able to identify specific anatomical structures and analyze human movements.

**PTA 221 KINESIOLOGY LAB (3S) 1 credit**

**COREQUISITE: PTA 220**

This laboratory course allows for a hands on appreciation of functional anatomy and kinesiology. Emphasis may include muscle and joint function, ROM/strength testing, palpation skills and exercise concepts. Upon completion, the student should be able to integrate content areas into an understanding of normal gait posture and movement patterns.

**PTA 230 NEUROSCIENCE (2T) 2 credits**

This course provides students with an overview of the neuroanatomy of the CNS and PNS, as it relates to treatment necessary for patients with dysfunctions of these systems. Emphasis includes the structure and function of the nervous system, neurophysiological concepts, human growth and development, and neurologic dysfunctions. Upon completion of this course, the student should be able to identify and discuss

specific anatomical structures, functions of the nervous system, basic concepts of human growth and development, and identify neurologic pathologies.

## **PTA 231 REHABILITATION TECHNIQUES**

**(6S)**

**2 credits**

**COREQUISITE: PTA 241**

This course allows for hands on appreciation of advanced rehabilitation techniques. Emphasis is on orthopedic and neurologic treatment techniques, therapeutic exercise procedures and analysis and treatment of pathologic gait. Upon completion, the student should be able to demonstrate an understanding of advanced rehabilitation techniques appropriate to orthopedic and neurologic dysfunctions.

## **PTA 232 ORTHOPEDICS FOR THE PTA**

**(2T)**

**2 credits**

**COREQUISITE: PTA 290**

This course provides the student with an overview of orthopedic conditions seen in physical therapy. Emphasis is on the study of orthopedic conditions and appropriate physical therapy intervention and a review of related anatomical structures. Upon completion of the course, the student should be able to discuss PT interventions for common orthopedic conditions.

## **PTA 240 PHYSICAL DISABILITIES I**

**(2T)**

**2 credits**

This course presents the student with a body systems approach to the etiology, pathology, signs/symptoms and treatment of conditions seen in PT. Emphasis may include conditions most commonly treated in physical therapy. Upon completion, the student should be able to discuss basic pathological processes, treatment options and prognoses of conditions studied.

## **PTA 241 PHYSICAL DISABILITIES II**

**(2T)**

**2 credits**

**PREREQUISITE: PTA 240**

**COREQUISITE: PTA 231**

This course continues a body systems approach to study of common PT pathologies. Emphasis includes various neurological pathologies with additional focus on the needs of special populations. Upon completion, the student should be able to discuss PT interventions appropriate to a variety of diagnoses.

## **PTA 250 THERAPEUTIC PROCEDURES I**

**(2T, 6S)**

**4 credits**

This laboratory course provides a hands on introduction to the principles and procedures of therapeutic physical therapy intervention. Emphasis is on basic patient care skills and procedures utilized in physical therapy. Upon completion, the student should be able to demonstrate safe and effective delivery of those procedures with an in-depth understanding of the rationale for each treatment.

## **PTA 251 THERAPEUTIC PROCEDURES II**

**(2T, 6S)**

**4 credits**

**PREREQUISITE: PTA 250**

**COREQUISITE: PTA 252**

This laboratory course is a continued study of the principles and procedures of therapeutic PT intervention. Emphasis is on advanced physical therapy interventions and procedures and their rationale. Upon completion, the student should be able to demonstrate safe and effective delivery with an in-depth understanding of each.

## **PTA 252 PHYSICAL AGENTS AND THERAPEUTIC MODALITIES (2T)**

**2 credits**

**COREQUISITE: PTA 251**

This course provides the student with the theoretical basis for the use of physical agents such as heat, cold, electricity, light, water and therapeutic modalities utilized in physical therapy. Emphasis is placed on modalities such as hydrotherapy, various forms of electrical stimulation, ultrasound, traction and diathermy. Upon completion of the course, the student will understand the physiological effects, indications and contraindication, advantage and disadvantage of utilizing these modalities in physical therapy.

## **PTA 260 CLINICAL EDUCATION I**

**(5P5)**

**1 credit**

This clinical experience is designed to introduce the student to the practice of physical therapy through interaction in the health care environment. The course entails on-going communication between the clinical instructor, student and course coordinator. Upon completion of the course, the student should be able to safely and effectively apply procedures and techniques previously attained in the classroom.

## **PTA 261 CLINICAL EDUCATION II**

**(5P5)**

**1 credit**

**PREREQUISITE: PTA 260**

This clinical class is a continuation of PTA 260 which is designed to introduce the student to the practice of physical therapy through interaction in the health care environment. The course entails on-going communication between the clinical instructor, student, and course coordinator. The student will safely and effectively apply procedures and techniques previously attained in the classroom.

## **PTA 263 CLINICAL AFFILIATION I**

**(15P5)**

**3 credits**

This clinical class will provide clinical interaction in the health care environment. The course entails on-going communication between the clinical instructor, student, and course coordinator. Upon completion, the student should be able to safely and effectively apply procedures and techniques previously attained in the classroom.

## **PTA 266 CLINICAL FIELD WORK I**

**(10P5)**

**2 credits**

This clinical class will provide an intensive and extended clinical interaction in the health care environment. The course entails

on-going communication between the clinical instructor, student, and course coordinator. The student will safely and effectively apply procedures and techniques previously attained in the classroom.

**PTA 267 CLINICAL FIELD WORK II (10P5) 2 credits**

This clinical class is a continuation of PTA 266 and will provide clinical interaction in the health care environment. The course entails on-going communication between the clinical instructor, student and course coordinator. The student will safely and effectively apply procedures and techniques previously attained in the classroom.

**PTA 290 THERAPEUTIC EXERCISE (3S) 1 credit**  
**COREQUISITE: PTA 232**

This lab course covers exercise techniques commonly used in PTA practice. It may include aquatics, isometric, isotonic, isokinetic, plyometric, Swiss ball, and aerobic exercise. Upon completion of the course, the student should have entry level skills in exercise application.

**PHYSICS (PHY)**

**PHY 213 GENERAL PHYSICS WITH CALCULUS I (3T, 2E) 4 credits**  
**PREREQUISITE: MTH 125**

This course provides a calculus-based treatment of the principal subdivisions of classical physics: mechanics and energy. Laboratory is required.

**PHY 214 GENERAL PHYSICS WITH CALCULUS II (3T, 2E) 4 credits**  
**PREREQUISITE: PHY 213**

This course provides a calculus-based study in classical physics. Topics included are simple harmonic motion, waves, sound, light, optics, electricity and magnetism. Laboratory is required.

**PHY 218 MODERN PHYSICS (3T, 2E) 4 credits**  
**PREREQUISITE: PHY 214 and MTH 227**

The focus of this course is the development of the theory of relativity, the old quantum theory of Planck, Einstein, Bohr and Sommerfeld, and the new quantum physics of Schroedinger, Heisenberg, Dirac and Pauli. Laboratory experiments illustrate the principles discussed and include, but are not limited to, determination of the speed of light, charge and charge to mass ratio of the electron, the Planck constant and the Rydberg constant. Laboratory is required.

**PROCESS TECHNOLOGY (PCT)**

**PCT 100 FUNDAMENTALS OF PROCESS TECHNOLOGY (3T) 3 credits**

This course will provide an overview and an introduction to

**PCT 105 PROCESS TECHNOLOGY I - EQUIPMENT (3T, 2E) 4 credits**

**PREREQUISITE: PCT 100**

This course provides an overview or introduction into the field of process technology equipment within the process industry. Students will be introduced to many process industry related equipment concepts including purpose, components, operation, and Process Technicians' role for operating and troubleshooting the equipment.

**PCT 115 INSTRUMENTATION I (2T, 2E) 3 credits**

This course covers process variables and various instruments used to sense, measure, transmit and control these variables. Introduces the students to control loops and the elements that are found in different types of loops, such as controllers, regulators and final control elements. Concludes with a study of instrumentation drawings and diagrams and a unit on troubleshooting instrumentation.

**PCT 215 INSTRUMENTATION II (3T, 2E) 4 credits**  
**PREREQUISITE: PCT 115**

This course introduces the student to switches, relays and annunciators systems and moves on to discuss signal conversion and transmission. Students move on to learn about digital control, programmable logic control and distributed control systems before ending the course with a discussion of instrumentation power supplies, emergency shutdown systems and instrumentation malfunctions.

**PCT 220 PROCESS TECHNOLOGY II, SYSTEMS (3T, 2E) 4 credits**  
**PREREQUISITE: PCT 105**

This course is a study of the interrelations of process equipment and process systems. Students will be able to arrange process equipment into systems, describe the purpose and function of specific process systems, explain how factors affecting process systems are controlled under normal conditions, and recognize abnormal process conditions. Students are also introduced to the concept of system process control and manufacturing plant process economics.

**PCT 230 PROCESS TECHNOLOGY III, OPERATIONS (3T, 2E) 4 credits**  
**PREREQUISITES: PCT 215 and PCT 220**  
**COREQUISITE: PCT 240**

This course provides an overview or introduction into the field of operations within the process industry. Students will use existing knowledge of equipment, systems and instrumentation to understand the operation of an entire unit including using a

Process Control simulator.

- PCT 240 PROCESS TROUBLESHOOTING (3T, 2E) 4 credits**  
**PREREQUISITES:** PCT 215 and PCT 220  
**COREQUISITE:** PCT 230  
 This course involves instruction in different types of troubleshooting techniques, procedures, and methods used to solve process problems. Topics include application of data collection and analysis, cause-effect relationships and reasoning. In addition to troubleshooting static equipment problems as presented within a textbook, dynamic problems will also be presented via a process simulator for problem resolution by the student.

## POLITICAL SCIENCE (POL)

- POL 200 INTRODUCTION TO POLITICAL SCIENCE (3T) 3 credits**  
 This course is an introduction to the field of political science through examination of the fundamental principles, concepts, and methods of the discipline, and the basic political processes and institutions of organized political systems. Topics include approaches to political science, research methodology, the state, government, law, ideology, organized political influences, governmental bureaucracy, problems in political democracy, and international politics. Upon completion, students should be able to identify, describe, define, analyze, and explain relationships among the basic principles and concepts of political science and political processes and institutions of contemporary political systems.
- POL 211 AMERICAN NATIONAL GOVERNMENT (3T) 3 credits**  
 This course surveys the background, constitutional principles, organization, and operation of the American political system. Topics include the U.S. Constitution, federalism, civil liberties, civil rights, political parties, interest groups, political campaigns, voting behavior, elections, the presidency, bureaucracy, Congress, and the justice system. Upon completion, students should be able to identify and explain relationships among the basic elements of American government and function as more informed participants of the American political system.
- POL 220 STATE AND LOCAL GOVERNMENT (3T) 3 credits**  
 This course is a study of the forms of organization, functions, institutions, and operation of American state and local governments. Emphasis is placed on the variety of forms and functions of state and local governments, with particular attention to those in Alabama and to the interactions between state and local government and the national government. Upon completion, students should be able to identify elements of and explain relationships among the state, local, and national governments of the U.S. and function as more informed participants of state and local political systems.

- POL 299 DIRECTED STUDIES 1-3 credits\***  
**PREREQUISITE:** Recommendation of instructor and approval of academic division dean  
 This course provides opportunities for non-traditional exploration of selected topics in political science. Emphasis is placed on knowledge and experience students gain through learning activities such as guided reading, internships, and programs combining personal experience with related intensive study. Upon completion, students should be able to prepare papers, presentations, or other projects on approved topics related to their individual experiences.  
 \*Credit to be determined from appropriate contact-to-credit ratio formula.

## PSYCHOLOGY (PSY)

- PSY 200 GENERAL PSYCHOLOGY (3T) 3 credits**  
 This course is a survey of behavior with an emphasis on psychological processes. This course includes the biological bases for behavior, thinking, emotion, motivation, and the nature and development of personality.
- PSY 208 CONTEMPORARY ISSUES IN PSYCHOLOGY (3T) 3 credits**  
**PREREQUISITE:** PSY 200  
 This course is a study of selected topics in general psychology.
- PSY 210 HUMAN GROWTH AND DEVELOPMENT (3T) 3 credits**  
**PREREQUISITE:** PSY 200  
 This course is a study of the psychological, social and physical factors that affect human behavior from conception to death.
- PSY 211 CHILD GROWTH AND DEVELOPMENT (3T) 3 credits**  
**PREREQUISITE:** PSY 200  
 This course is a systematic study of the behavior and psychological development of the child from conception to adolescence. Emphasis will be placed on principles underlying physical, mental, emotional and social development, methods of child study, and practical implications.
- PSY 220 HUMAN SEXUALITY (3T) 3 credits**  
 This course is a comprehensive and integrated approach to human sexuality emphasizing biological, psychological, social and emotional aspects.
- PSY 230 ABNORMAL PSYCHOLOGY (3T) 3 credits**  
**PREREQUISITE:** PSY 200  
 This course is a survey of abnormal behavior and its social and biological origins. The anxiety related disorders, psychoses, personality disorders and mental deficiencies will be covered.

**PSY 250 SOCIAL PSYCHOLOGY (3T) 3 credits**  
**PREREQUISITE: PSY 200**  
This course is a study of social factors as they influence individual behavior.

**PSY 260 STATISTICS FOR THE SOCIAL SCIENCES (3T) 3 credits**  
This course is an introduction to the basic statistical concepts, measures, and techniques used in social science research and report writing. It includes both descriptive and inferential statistics.

**PSY 276 HUMAN RELATIONS (3T) 3 credits**  
**PREREQUISITE: Permission of instructor**  
This course focuses on readings, inter- and intra- personal experiences, individual testing, employer visits and open discussions. Its goal is to assist the student in making a successful transition from classroom to the world of work.

### READING (RDG)

**RDG 085 DEVELOPMENTAL READING (3T) 3 credits**  
This course is designed to improve reading and critical thinking skills. Topics include vocabulary enhancement; extracting implied meaning; analyzing author's purpose, tone, and style; and drawing conclusions and responding to written material. Upon completion, students should be able to comprehend and analyze college-level material.

NOTE: Students who score at or below 66 on the Compass Reading Test will be required to take RDG 085 during their first or second semester at Calhoun.

### RELIGION (REL)

**REL 100 HISTORY OF WORLD RELIGIONS (3T) 3 credits**  
This course is designed to acquaint the student with the beliefs and practices of the major contemporary religions of the world. This includes the religions of Africa, the Orient, and the western world. The student should have an understanding of the history and origins of the various religions of the world.

**REL 119 INTERPRETING THE BIBLE (3T) 3 credits**  
This course is an attempt to understand the method of dealing with scripture as the word of God. Attention is given to different approaches to interpretation and suggestions are provided for legitimate application. The student should develop a greater understanding of the Bible as a result of this course.

**REL 151 SURVEY OF THE OLD TESTAMENT (3T) 3 credits**

**REL 152 SURVEY OF THE NEW TESTAMENT (3T) 3 credits**  
This course is an introduction to the content of the Old Testament, with emphasis on the historical context and contemporary theological and cultural significance of the Old Testament. The student should have an understanding of the significance of the Old Testament writings upon completion of this course.

### RENEWABLE ENERGY (REN)

**REN 105 RENEWABLE TECHNOLOGY AWARENESS (1T) 1 credit**  
This course provides a comprehensive overview of renewable technology. Subjects covered in this course will include energy analysis and awareness, HVAC ratings and options, electrical production and consumption, plumbing for conservation, hot water, landscaping, fire protection, wastewater reuse, and LEED certification. Students will also learn about local, state and national codes and regulations. A presentation of current government rebates and tax credits will be included.

**REN 115 PHOTOVOLTAIC PRINCIPLES & DESIGN (1T, 4E) 3 credits**  
**PREREQUISITE: ELT 108 and ELT 109**  
**COREQUISITE: REN 215**  
This course covers principles and design of photovoltaic (PV) systems. Upon completion of the course, students should have demonstrated a basic understanding of PV markets and applications, safety basics, electricity basics, solar energy fundamentals, PV module fundamentals, system components, PV system sizing and electrical and mechanical design, and performance analysis, maintenance and troubleshooting. The course prepares the student to take the National American Board of Certified Energy Practitioners (NABCEP) PV Entry Level Exam. Though highly recommended, taking the exam is not a mandatory requirement of the course.

**REN 205 SOLAR THERMAL PRINCIPLES (1T, 4E) 3 credits**  
This course provides a comprehensive overview of solar thermal design, installation and troubleshooting. Topics include solar space heating, solar hot water, solar pool heating and solar cooling for both new and existing construction. Students will learn to assess the viability of solar thermal energy for given factors. Students will also learn about local, state and national codes and regulations. This course will cover all topics required by the National Board of Certified Energy Practitioners (NABCEP).

**REN 215 PHOTOVOLTAIC SYSTEM INSTALLATION & SERV. PROCED. (1T, 4E) 3 credits**

**PREREQUISITE: ELT 108 and ELT 109**

**CO-REQUISITE: REN 115**

This course covers installation and servicing procedures related to photovoltaic (PV) systems. Upon completion of the course, students should have demonstrated a basic understanding of related safety, site surveys, mechanical and electrical design, installation process, performance analysis, troubleshooting and maintenance. The course prepares the student to take the National American Board of Certified Energy Practitioners (NABCEP) Solar PV Installer Certification Exam. Though highly recommended, taking the exam is not a mandatory requirement of the course.

## SOCIOLOGY (SOC)

**SOC 200 INTRODUCTION TO SOCIOLOGY (3T) 3 credits**

This course is an introduction to vocabulary, concepts, and theory of sociological perspective of human behavior.

**SOC 208 INTRODUCTION TO CRIMINOLOGY (3T) 3 credits**

This course delves into the nature and extent of crime in the United States, as well as criminal delinquent behavior and theories of causation. The study includes criminal personalities, principles of prevention, control and treatment.

**SOC 209 JUVENILE DELINQUENCY (3T) 3 credits**

**PREREQUISITE: SOC 200**

This course examines the causes of delinquency. It also reviews programs of prevention and control of juvenile delinquency, as well as the role of the courts.

**SOC 247 MARRIAGE AND THE FAMILY (3T) 3 credits**

The course is a study of family structures and families in a modern society. It covers preparation for marriage, as well as sociological, psychological, biological, and financial factors relevant to success in marriage and family life.

**SOC 296 DIRECTED STUDIES IN SOCIOLOGY (1-3T) 1-3 credits**

**PREREQUISITE: SOC 200**

This course provides students with opportunities to have "hands-on" experience with research methods used in the behavioral sciences or to complete directed readings under faculty supervision.

## SPANISH (SPA)

**SPA 101 INTRODUCTORY SPANISH I (4T) 4 credits**

**PREREQUISITE: Grade of "C" or better in ENG 094 or satisfactory ACT, SAT or placement score**

This course provides an introduction to Spanish. Topics include the development of basic communication skills and the acquisition of basic knowledge of the cultures of Spanish speaking areas.

**SPA 102 INTRODUCTORY SPANISH II (4T) 4 credits**

**PREREQUISITE: SPA 101 or Equivalent**

This continuation course includes the development of basic communication skills and the acquisition of basic knowledge of the cultures of Spanish speaking areas.

**SPA 201 INTERMEDIATE SPANISH I (3T) 3 credits**

**PREREQUISITE: SPA 102 or Equivalent**

This course includes a review and further development of communication skills. Topics include readings of literary, historical, and/or cultural texts.

**SPA 202 INTERMEDIATE SPANISH II (3T) 3 credits**

**PREREQUISITE: SPA 201**

This continuation course includes a review and further development of communication skills. Topics include readings of literary, historical, and/or cultural texts.

## SPEECH COMMUNICATIONS (SPH)

**SPH 106 FUNDAMENTALS OF ORAL COMMUNICATION (3T) 3 credits**

This is a performance course that includes the principles of human communication: intrapersonal, interpersonal and public. It surveys current communication theory and provides practical application.

**SPH 107 FUNDAMENTALS OF PUBLIC SPEAKING (3T) 3 credits**

This course explores principles of audience and environment analysis as well as the actual planning, rehearsing and presenting of formal speeches to specific audiences. Historical foundations, communication theories and student performances are emphasized. Students prepare and deliver short speeches, practice analytical listening, and engage in various communication exercises.

**SPH 206 ORAL INTERPRETATION (3T) 3 credits**

(Course offered only in the Fall Semester at the Decatur Campus)

This course is designed to help students develop specific skills in the analysis and oral interpretation of poetry, prose, and drama. It includes a study of the elements of oral communication such as imagery, structure, and dramatic timing. Opportunity is given for public/classroom performance of literature.

## SOCIAL WORK TECHNOLOGY (SWT)

**SWT 109 TECHNIQUES OF BEHAVIOR MODIFICATION I**

**(3T) 3 credits**  
In this course, the student will demonstrate the ability to decrease inappropriate behaviors and to shape appropriate behavior through the use of behavior modification techniques.

**SWT 130 THE COMMUNITY AND THE SOCIAL WORKER**

**(3T) 3 credits**  
This course is designed to acquaint the student with the demographic, economic and cultural composition of the community. The student will develop technical skills for making practical application of available resources for enhancing the quality of life within the community.

**SWT 131 PROBLEMS OF CHILDREN AND YOUTH**

**(3T) 3 credits**  
This course develops an understanding of the emotional, social, psychological, and physical needs of children and youth. This course presents the influences and responsibilities of natural and surrogate parents. The student becomes familiar with the nature and causes of the more common problems and develops skills for assisting with the prevention and/or improvement of problems common among children and youth.

**SWT 133 GERIATRICS**

**(3T) 3 credits**  
This course includes the study of the needs of making adjustments to retirement, activities and hobbies of the older person, and community agencies available for the aged. This course will include common psychological and physical problems of the aging. Actual experience will be provided in helping the elderly accept the changes in later life and teaching them of the many services available to them.

**SWT 138 COUNSELING FROM A CULTURAL PERSPECTIVE**

**(3T) 3 credits**  
This course will acquaint the students with some of the problems facing minorities. It will stress the importance of the counselor's knowledge of, and sensitivity to, the minority client experiences and how these experiences are greater now than they have been at any time in the past three decades. This course will help counselors and mental health practitioners maximize their effectiveness when working with a culturally diverse population. The student will learn to establish the necessary and sufficient conditions of a counseling relationship with clients who are culturally different. Similarities in race, ethnicity, and culture will be stressed.

**SURGICAL TECHNOLOGY (SUR)**

**SUR 100 PRINCIPLES OF SURGICAL TECHNOLOGY**

**(3T, 6S) 5 credits**  
**PREREQUISITES:** Admission to the Surgical Technology Program and EMS 106  
**COREQUISITES:** SUR 102, SUR 107 and SUR 108  
This course is an introduction to the field of surgical technology as a career. Emphasis is on the role of the surgical technologist, principles of asepsis, principles of patient care, operative

techniques, blood-borne pathogens, safety, and pharmacology. Additionally, the principles of microbiology, and professional, ethical, and legal responsibilities of the surgical team will be covered. Upon completion, the student should be able to demonstrate practical application of the basic principles and skills of the surgical technologist.

**SUR 102 APPLIED SURGICAL TECHNOLOGIES**

**(2T, 6S) 4 credits**  
**PREREQUISITES:** Admission to the Surgical Technology Program and EMS 106

**COREQUISITES:** SUR 100, SUR 107 and SUR 108

This course is the application of principles of asepsis and the role of the surgical technologist. Emphasis is placed on creating and maintaining a sterile environment, identification of surgical instruments, equipment, and supplies, proper patient positioning for surgical procedures, and applying skills of intra-operative procedures. Upon completion of this course, the student should be able to name and select basic surgical instruments, supplies, and equipment, participate in mock surgical procedures.

**SUR 103 SURGICAL PROCEDURES**

**(3T, 6S) 5 credits**  
**PREREQUISITES:** SUR 100, SUR 102, SUR 107 and SUR 108  
**COREQUISITE:** SUR 104

This course is a study of surgical procedures as they relate to anatomy, pathology, specialty equipment, and team responsibility. Patient safety is emphasized and medications used in surgery are discussed. Upon completion of the course, the student should be able to participate in surgical procedures in the operating room.

**SUR 104 SURGICAL PRACTICUM I**

**(20P5) 4 credits**  
**PREREQUISITES:** SUR 100, SUR 102, SUR 107 and SUR 108  
**COREQUISITE:** SUR 103

This course is the application of surgical principles in the peri-operative setting. Emphasis is placed on application of surgical technology skills. Upon completion of the course, the student should be able to participate in the surgical technologist role.

**SUR 105 SURGICAL PRACTICUM II**

**(1T, 20P5) 5 credits**  
**PREREQUISITES:** SUR 103 and SUR 104  
**COREQUISITE:** SUR 106

This clinical experience allows the student to practice in the health care environment using entry level skills attained in previous classroom laboratory and clinical instruction. In addition to clinical skills, emphasis is placed on specialty surgical procedures, the study of trends, professional and interpersonal skills in the health care setting, and case review. Upon completion of this course, the student should be able to apply concepts of surgical technology at the entry level.

**SUR 106 ROLE TRANSITION IN SURGICAL TECHNOLOGY**

**(1T) 1 credit**  
**PREREQUISITES:** SUR 103 and SUR 104  
**COREQUISITE:** SUR 105

This course is designed to provide specialized instruction for the student preparing to transition into the field of Surgical Technology. Emphasis is on review of content specific to the practice of surgical technology and preparation for the NBSTSA certification examination. Upon completion of this course, the student will be able to demonstrate readiness to take the certification examination.

### **SUR 107 SURGICAL ANATOMY AND PATHOPHYSIOLOGY (3T) 3 credits**

**PREREQUISITES:** Admission to the program and EMS 106  
**COREQUISITES:** SUR 100, SUR 102 and SUR 108

This course is an overview of surgical anatomy and pathophysiology. Emphasis is placed on the organization structure of the body, organ systems, relevant surgical pathophysiology, and related medical terminology. Upon completion, the student should be able to apply knowledge of anatomy in the clinical environment.

### **SUR 108 PHARMACOLOGY FOR THE SURGICAL TECHNOLOGIST (2T) 2 credits**

**PREREQUISITES:** Admission to the program and EMS 106  
**COREQUISITES:** SUR 100, SUR 102 and SUR 107

A study of basic pharmacology as it relates to the practice of the surgical technologist. Topics covered include basic conversions, calculations, classifications, desired effects and side effects, terminology, care and safe handling of medications, as well as a comprehensive review of surgical medications. Upon completion of the course, students should be able to recognize and properly manage pharmacologic agents commonly used in the surgical environment.

### **SUR 204 SURGICAL PRACTICUM III (4C) 4 credits**

**PREREQUISITE:** Admission to the program and/or as required by the Department

This course is the continuation of the study and application of surgical principles in the perioperative setting. Emphasis is placed on application of the surgical technologist role. Upon completion of the course, the student should be able to function as a surgical technologist in the operating room. Program may use P3 or P5 contact/credit hour ratio for clinical hours.

## THEATRE (THR)

### **THR 113, 114, 115 THEATRE WORKSHOP I, II, III (2T) 2 credits each**

These courses provide practical experience in the production and performance of a dramatic presentation with assignments in scenery, lighting, props, choreography, sound, costumes, make-up, publicity, acting, directing, and other aspects of theatre production.

### **THR 120 THEATRE APPRECIATION (3T) 3 credits**

This course is designed to increase appreciation of contemporary

theatre. Emphasis is given to the theatre as an art form through the study of the history and theory of drama and the contributions of playwright, actor, director, designer, and technician to modern media.

### **THR 126 INTRODUCTION TO THE THEATRE (3T) 3 credits**

This course is designed to teach the history of the theatre and the principles of drama. It also covers the development of theatre production and the study of selected plays as theatrical presentations.

### **THR 131 ACTING TECHNIQUES I (3T) 3 credits**

This is the first of a two-course sequence in which the student will focus on the development of the body and voice as the performing instruments in acting. Emphasis is placed on pantomime, improvisation, acting exercises, and building characterizations in short acting scenes. Students will participate in a theatre production.

### **THR 132 ACTING TECHNIQUES II (3T) 3 credits**

**PREREQUISITE:** THR 131

This course is a continuation of THR 131. Students will participate in a theatre production.

### **THR 241 VOICE AND SPEECH FOR THE PERFORMER (3T) 3 credits**

This is a beginning course in the effective and healthy use of the vocal instrument for performance. It is designed to approach both the physical and mental processes of vocal production and includes the following: learning a physical/vocal warm-up, dialect reduction, articulation, class performance and written exams.

## VISUAL COMMUNICATIONS (VCM)

### **CAT 283 GRAPHICS AND ANIMATION (1T, 2E, 3M) 3 credits**

**PREREQUISITE:** ART 221

This course is designed to tap the imagination of the student in a three-dimensional problem solving environment. Topics include a basic introduction to the concepts of 3D design and animation as applied to a design project. Upon completion, students should be able to create and animate objects in a three-dimensional environment.

### **VCM 145 INTRODUCTION TO DIGITAL PHOTOGRAPHY (3T) 3 credits**

This course is an introduction to digital photography. Emphasis is placed on aesthetic as well as technical aspects of photography. Upon completion, the student should understand quality in photography and be able to apply the techniques necessary to produce professional photographs. This is a CORE course.

### **VCM 146 DIGITAL PHOTOGRAPHY**

**(3T) 3 credits**  
**PREREQUISITE: VCM 145 or Permission of instructor**  
 This course explores various uses of digital photography. Subjects may include studio, portrait, landscape and other areas of photography. Upon completion, the student should be able to apply the techniques necessary to produce professional photographs of a variety of subjects.

**VCM 150 TYPOGRAPHY (2T, 1E) 3 credits**  
**PREREQUISITE: ART 221**  
 This course is an introduction in using type in graphic design. Emphasis is on typographic techniques used in layout and graphic design. Upon completion, the student should be able to view type as a design element.

**VCM 180 INTRODUCTION TO GRAPHIC DESIGN (2T, 1E) 3 credits**  
 This course is an introduction to the various elements of graphic design. Emphasis is on aspects of production design including layout, typography, graphic photography, computer graphics and printing techniques. Upon completion, students should have a basic understanding of the graphics process from concept through production.

**VCM 232 ADVANCED COMPUTER GRAPHICS (2T, 1E) 3 credits**  
 This course is designed to acquaint the student with computer graphics. Topics include illustration and image manipulation. Upon completion, students should be able to apply design principles to computer graphics.

**VCM 250 INTRODUCTION TO TECHNICAL ILLUSTRATION (2T, 2E) 3 credits**  
**PREREQUISITE: ART 221 or Permission of instructor**  
 This course focuses on technical drawings prepared for industry. Topics include perspective and axonometric drawing. Upon completion, students should be able to apply basic drawing and design principles to technical drawings.

**VCM 251 TECHNICAL ILLUSTRATION (2T, 1E) 3 credits**  
**PREREQUISITE: VCM 250**  
 This course focuses on renderings prepared for industry. Various techniques are used to illustrate charts, graphs, perspective and axonometric drawings and enhanced assembly views. Upon completion, students should be able to apply design principles to technical drawings and highly creative drawings using technical skills.

**VCM 281 DIGITAL DESIGN (3T) 3 credits**  
**PREREQUISITE: ART 221 and VCM 232 or Permission of instructor**  
 This course focuses on products for digital media. Emphasis is on creativity and an understanding of software and production. Upon completion, the student should be able to apply creative design and production skills to finished projects.

**VCM 282 ADVANCED DIGITAL DESIGN (3T) 3 credits**  
**PREREQUISITE: ART 221 and VCM 232 or Permission of instructor**  
 This course focuses on advanced applications in the production of digital design. Emphasis is on computer skills, creativity & design. Upon course completion, students should be able to create a multimedia production.

**VCM 285 MULTIMEDIA PRODUCTION (3T) 3 credits**  
**PREREQUISITE: ART 221 and VCM 232 or Permission of instructor**  
 This course introduces the student to multimedia production. Emphasis is on production design, creativity, visual design, and technical skills. Upon course completion, students should be able to create a multimedia production.

**VCM 286 ADVANCED MULTIMEDIA PRODUCTION (3T) 3 credits**  
**PREREQUISITE: VCM 285 or Permission of instructor**  
 This course focuses on advanced multimedia production. Emphasis is on comprehensive interactive multimedia production. Upon course completion, students should be able to apply creative design and production skills to finished interactive projects.

## WELDING (WDT)

**WDT 108 SMAW FILLET/OFC (2T, 3M) 3 credits**  
**COREQUISITE: WDT 122**  
 This course provides the student with instruction on safety practices and terminology in the Shielded Metal Arc Welding (SMAW) process. Emphasis is placed on safety, welding terminology, equipment identification, set-up and operation, and related information in the SMAW process. This course also covers the rules of basic safety and identification of shop equipment and provides the student with the skills and knowledge necessary for the safe operation of oxy-fuel cutting. This is a CORE course.

**WDT 109 SMAW FILLET/PAC/CAC (2T, 3M) 3 credits**  
**COREQUISITE: WDT 123**  
 This course provides the student with instruction on safety practices and terminology in the Shielded Metal Arc Welding (SMAW) process. Emphasis is placed on safety, welding terminology, equipment identification, set-up and operation, and related information in the SMAW process. This course also covers the rules of basic safety and identification of shop equipment and provides the student with the skills and knowledge necessary for the safe operation of carbon and plasma arc cutting. This is a CORE course.

**WDT 110 INDUSTRIAL BLUEPRINT READING (3T) 3 credits**  
 This course provides students with the understanding and fundamentals of industrial blueprint reading. Emphasis is placed on reading and interpreting lines, views, dimensions, weld joint

configurations and weld symbols. Upon completion, students should be able to interpret welding symbols and blueprints as they apply to welding and fabrication. This is a CORE course.

**WDT 115 GTAW CARBON PIPE (1T, 6M) 3 credits**

**PREREQUISITES:** WDT 228 AND WDT 268

**COREQUISITE:** WDT 155

This course is designed to provide the student with the practices and procedures of welding carbon pipe using the gas tungsten arc weld (GTAW) process. Emphasis is placed on pipe positions, filler metal selection, purging gasses, joint geometry, and joint preparation and fit-up. Upon completion, students should be able to identify pipe positions, filler metals, purging gas, proper joint geometry, and joint preparation and fit-up to the applicable code.

**WDT 119 GAS METAL ARC/FLUX CORED ARC WELDING (2T, 3M) 3 credits**

**COREQUISITE:** WDT 124

This course introduces the student to the gas metal arc and flux cored arc welding process. Emphasis is placed on safe operating practices, handling and storage of compressed gasses, process principles, component identification, various welding techniques and base and filler metal identification. This is a CORE course.

**WDT 120 SHIELDED METAL ARC WELDING GROOVE (2T, 3M) 3 credits**

**PREREQUISITES:** WDT 108, WDT 109, WDT 122, WDT 123

**COREQUISITE:** WDT 125

This course provides the student with instruction on joint design, joint preparation, and fit-up of groove welds in accordance with applicable welding codes. Emphasis is placed on safe operation, joint design, joint preparation, and fit-up. Upon completion, students should be able to identify the proper joint design, joint preparation and fit-up groove welds in accordance with applicable welding codes. This is a CORE course.

**WDT 122 SMAW FILLET/OFC LAB (9M) 3 credits**

**COREQUISITE:** WDT 108

This course is designed to introduce the student to the proper set-up and operation of the shielded metal arc welding equipment. Emphasis is placed on striking and controlling the arc and proper fit-up of fillet joints. This course is also designed to instruct students in the safe operation of oxy-fuel cutting. Upon completion, students should be able to make fillet welds in all positions using electrodes in the F-3 groups in accordance with applicable welding code, be able to safely operate oxy-fuel equipment and perform those operations as per the applicable welding code.

**WDT 123 SMAW FILLET/PAC/CAC LAB (9M) 3 credits**

**COREQUISITE:** WDT 109

This course is designed to introduce the students to the proper set-up and operation of the shielded metal arc welding

equipment. Emphasis is placed on striking and controlling the arc and proper fit-up of fillet joints. This course is also designed to instruct students in the safe operation of plasma and carbon arc cutting. Upon completion, students should be able to make fillet welds in all positions using electrodes in the F-4 groups in accordance with applicable welding code and be able to safely operate plasma and carbon arc equipment and perform those operations as per applicable welding code.

**WDT 124 GAS METAL ARC/FLUX CORED ARC WELDING LAB (9M) 3 credits**

**COREQUISITE:** WDT 119

This course provides instruction and demonstration using the various transfer methods and techniques to gas metal arc and flux cored arc welds. Topics included are safety, equipment set-up, joint design and preparation, and gases.

**WDT 125 SHIELDED METAL ARC WELDING GROOVE LAB (9M) 3 credits**

**PREREQUISITES:** WDT 108, WDT 109, WDT 122, WDT 123

**COREQUISITE:** WDT 120

This course provides instruction and demonstrations in the shielded metal arc welding process on carbon steel plate and various size F3 and F4 group electrodes in all positions. Emphasis is placed on welding groove joints and using various F3 and F4 group electrodes in all positions. Upon completion, the student should be able to make visually acceptable groove weld joints in accordance with applicable welding codes.

**WDT 155 GTAW CARBON PIPE LAB (9M) 3 credits**

**PREREQUISITES:** WDT 228 AND WDT 268

**COREQUISITE:** WDT 115

This course is designed to provide the student with the skills in welding carbon steel pipe with gas tungsten arc welding techniques in various pipe weld positions. Upon completion, students should be able to perform gas tungsten arc welding on carbon steel pipe with the prescribed filler metals in various positions in accordance with the applicable code.

**WDT 182 SPECIAL TOPICS (1T, 6M) 3 credits**

**PREREQUISITE:** PERMISSION OF INSTRUCTOR

This course allows the student to plan, execute and present results of individual projects in welding. Emphasis is placed on enhancing skill attainment in the welding field. The student will be able to demonstrate and apply competencies identified and agreed upon between the student and instructor.

**WDT 217 SMAW CARBON PIPE (1T, 6M) 3 credits**

**PREREQUISITES:** WDT 108, WDT 109, WDT 122, WDT 123

**COREQUISITE:** WDT 257

This course introduces the student to the practices and procedures of welding carbon steel pipe using the shielded metal arc weld (SMAW) process. Emphasis is placed on pipe positions, electrode selection, joint geometry, joint preparation and fit -up. Upon

completion, students should be able to identify pipe positions, electrodes, proper joint geometry, joint preparation, and fit-up in accordance with applicable codes.

will have knowledge and skills relevant to work ethic, communication, resume writing, job interviewing, dress and appearance, behavior, problem solving, decision making, and project management.

**WDT 228 GAS TUNGSTEN ARC WELDING**

**(2T, 3M)**

**3 credits**

**COREQUISITE: WDT 268**

This course provides student with knowledge needed to perform gas tungsten arc welds using ferrous and/or non-ferrous metals, according to applicable welding codes. Topics include safe operating practices, equipment identification and set-up, correct selection of tungsten type, polarity, shielding gas and filler metals. Upon completion, a student should be able to identify safe operating practices, equipment identification and set-up, correct selection of tungsten type, polarity, shielding gas, filler metals, and various welds on ferrous and/or non-ferrous metals, using the gas tungsten arc welding process according to applicable welding codes.

**WDT 257 SMAW CARBON PIPE LAB**

**(9M)**

**3 credits**

**PREREQUISITES: WDT 108, WDT 109, WDT 122, WDT 123**

**COREQUISITES: WDT 217**

This course is designed to provide the student with the skills in welding carbon steel pipe with shielded metal arc welding techniques in various pipe welding positions. Upon completion, students should be able to perform shielded metal arc welding on carbon steel pipe with the prescribed electrodes in various positions in accordance with the applicable codes.

**WDT 268 GAS TUNGSTEN ARC LAB**

**(9M)**

**3 credits**

**COREQUISITE: WDT 228**

This course provides students with the skills needed to perform gas tungsten arc welds using ferrous and/or non-ferrous metals, according to applicable welding codes. Topics include safe operating practices, equipment identification and set-up, correct selection of tungsten type, polarity, shielding gas and filler metals. Upon completion, students should be able to identify safe operating practices, equipment identification and set-up, correct selection of tungsten type, polarity, shielding gas, filler metals, and various welds on ferrous and/or non-ferrous metals, using the gas tungsten arc welding process according to applicable welding codes.

**WORKPLACE SKILLS (WKO)**

**WKO 101 WORKPLACE SKILLS**

**(1T)**

**1 credit**

This course emphasizes foundational information for students to develop knowledge and skills to prepare them for employment following completion of technical and academic programs. As part of the course, students will participate in WorkKeys assessment and research related to the Labor Management Information (LMI). At the conclusion of this course, students





# STUDENT HANDBOOK





### A message from the Dean of Student Services

Welcome to Calhoun! We are delighted that you are here as a student; but more importantly, we are eager to support your ambition and motivation to succeed not only at Calhoun but in the years ahead as you pursue your dreams and goals. Your Calhoun education is the pathway to achieving those goals!!! The faculty and staff of Calhoun are committed to student success and completion. We want you to be that successful student; and we want you to complete your certificate, your degree, and/or your transfer options to a four-year degree.

This Student Handbook has been designed to be your source of information as well as your motivation when you need a little extra support. We know that you may be balancing your life as a student along with the responsibilities of a job or a family or other obligations. Your academic work is very important, however, and this Handbook can provide you with key resources on campus, various aspects of campus life, and important student policies.

Most importantly of all, Calhoun faculty, staff, and even other students can all be the source for good advice or just some sympathetic listening when needed.

I wish you a very successful year at Calhoun! Let me know how I can be of service.

Dr. Patricia A. Wilson  
Dean of Student Services



### A message from the Student Activities Facilitator

There's more to college life than attending classes. The Office of Student Activities is here to help you thrive and succeed in your college life. We want each student to get involved on campus. It's a great way to meet people, enhance your leadership skills, and make a difference. Maybe you'll discover a new interest or make new friends among the diverse array of academic and cultural events. So, get involved by joining an organization or club and participating in activities and events. You'll be glad you did!

Kelly Hovater  
Student Activities Facilitator

## QUICK REFERENCE PHONE NUMBERS

### **Academic Calendar**

**Admissions**..... 256-306-2593

### **Address Changes**

**Records** ..... 256-306-2593

### **Advisor**

**Advising** ..... 256-306-2648

### **Applications**

**Admissions**..... 256-306-2593

**Recruitment** ..... 256-306-2648

**Articulation Agreements**..... 256-306-2665

### **Books**

Bookstore (Decatur)..... 256-306-2690

Bookstore (Huntsville) ..... 256-890-4748

### **Campus Tours**

Recruitment ..... 256-260-2492

### **Catalogs**

Recruitment ..... 256-306-2648

### **Compass Test**

Testing ..... 256-306-2648

### **Disability Services**

Disability Services ..... 256-306-2630

### **Drop & Add**

Advising ..... 256-306-2648

### **Enrollment Verification**

Records ..... 256-306-2593

### **Fee Payment**

Business Office ..... 256-306-2457

### **Financial Aid Refund Status**

Financial Aid ..... 256-306-2628

**GED Classes** ..... 256-306-2830

**Graduation** ..... 256-306-2607

### **Job Listings**

Career Center ..... 256-306-2907

### **Loans**

Financial Aid ..... 256-306-2628

### **Academic Major Changes**

Records ..... 256-306-2593

### **Name Changes**

Records ..... 256-306-2593

### **Orientation**

Advising ..... 256-306-2648

### **Parking Decals**

Student Center (Decatur) ..... 256-306-2457

Campus Police (Huntsville) ..... 256-890-4711

### **Re-Admission Application**

Records ..... 256-306-2593

### **Refunds**

Business Office ..... 256-306-2457

### **Transcripts**

Records ..... 256-306-2593

### **Scholarships**

Foundation Office ..... 256-713-4823

### **Student Advocate**

Student Affairs ..... 256-306-2870

### **Student IDs**

Student Affairs (Decatur) ..... 256-306-2614

Admissions (Huntsville) ..... 256-890-4747

### **Suspensions**

Admissions ..... 256-306-2907

### **Transfer Credit**

Advising ..... 256-306-2648

### **Transcript Evaluation**

Records ..... 256-306-2593

### **Veterans' Affairs**

Financial Aid ..... 256-890-4790

### **Withdrawals**

Admissions ..... 256-306-2593

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12-MONTH CALENDAR  
**2016 - 2017****SEPTEMBER**

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

**OCTOBER**

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30	31					

**NOVEMBER**

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**DECEMBER**

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

**JANUARY**

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22	23	24	25	26	27	28
29	30	31				

**FEBRUARY**

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18	19	20	21	22	23	24
25	26	27	28			

**MARCH**

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

**APRIL**

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30						

**MAY**

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21	22	23	24	25	26	27
28	29	30	31			

**JUNE**

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24	25	26	27	28	29	30

**JULY**

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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

**AUGUST**

S	M	T	W	T	F	S
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25	26	27	28	29	30	31

## ABOUT THE COLLEGE

Located in Decatur, Alabama, a thriving community in north Alabama's high technology corridor, Calhoun Community College exemplifies the two-year college mission of commitment to excellence in teaching and service.

The largest of the two-year institutions comprising The Alabama Community College System, Calhoun is an open-admission, community-based, state-supported, co-educational, comprehensive community college dedicated to providing affordable, high-quality and accessible education to individuals in its four-county service area.

Offering 62 associate degree programs and 50 career/certificate programs, Calhoun serves over 11,000 students at its 110-acre Decatur campus, its Huntsville campus, and at the Limestone Correctional Facility. The College's faculty and staff are well qualified and remain current in their areas of expertise.

For over 68 years, Calhoun has been an active member of north Alabama. Graduates of the College permeate the community, and many of them have gone on to complete baccalaureate degrees at other institutions in the area, or have entered the work force after successfully completing programs of study and training.

Calhoun successfully continues to meet the educational and training demands of a unique and highly diverse population. The College also is committed to providing training and education for area business and industry through our Business and Industry Services program. Through these services, customized training programs have been developed for such companies as Adtran, Boeing, and the Tennessee Valley Authority.



### Calhoun Fast Facts

- With approximately 10,500 credit students, Calhoun remains Alabama's largest two-year college and the 6th largest higher education institution (two-year and four-year) in the state.
- Calhoun's Huntsville/Cummings Research Park campus is the only two-year college campus in the nation located in a major research park.
- Calhoun was the state of Alabama's first public higher education institution designated "smoke free."
- In 2014, Calhoun was among 12 community and technical colleges from eight states welcomed into the Achieving the Dream National Reform Network, which provides resources, support and evidence-based strategies focused on closing achievement gaps and increasing student retention, persistence and completion rates.
- Developed in partnership with Athens State University, Calhoun opened Phase I of the Alabama Center for the Arts in 2012, located in downtown Decatur. Construction on Phase II of the ACA was completed summer 2015.
- According to a report from the Alabama Community College System, Calhoun's economic impact to the community and state is substantial. Total local economic impact is \$279,284,280 for a return on \$1 investment (ROI) of 12.1, the highest among the state's two-year colleges.
- The top five institutions to which Calhoun students transfer are: University of Alabama in Huntsville - 22%, Athens State University - 18%, Auburn University - 14%, University of Alabama - 13%, and University of North Alabama - 7%.
- The College enrolls over 1,000 students in two Nursing and six Allied Health programs.
- The College is proud of its quality programs. Currently, 22 degree programs are nationally accredited.
- ACHE (Alabama Commission on Higher Education) data indicates that Calhoun remains the "college of choice" for students from this region.

## REGISTRATION INFORMATION

## COURSE PLACEMENT TESTING

Applicants and students are required to complete a course placement examination prior to enrollment in any English, reading, or mathematics course unless the student qualifies for an exemption listed below. Course placement testing is mandatory; students may not enroll for any course above the level designated by the placement exam. No fee is charged for the test.

Placement testing is available using untimed computerized testing. Individual computerized testing appointments may be scheduled by logging online to make an appointment.

Go to [www.calhoun.edu/advising](http://www.calhoun.edu/advising)

## DECATUR CAMPUS

Monday - Thursday (Appointment Necessary)

9:00 a.m. and 3:00 p.m.

Friday (Appointment Necessary)

9:00 a.m.

Chasteen Student Center

256-306-2648

## HUNTSVILLE CAMPUS

Monday - Thursday (Appointment Necessary)

9:00 a.m. and 4:00 p.m.

Friday (Appointment Necessary)

9:00 a.m. Room 101J

256-890-4770

## EXEMPTIONS

1. A student has ACT or SAT scores at a minimum level (see chart below). ACT/ SAT scores must be on file before an exception to the placement testing requirement will be approved. **NOTE: Placement testing scores from ACT, SAT, or COMPASS must be no more than 3 years old.**

ACT		SAT	
English .....	18	Verbal .....	480
Mathematics .....	20	Mathematics.....	480

2. An ACT English score of 18 or better or an SAT Verbal of 480 or better is necessary for placement in English 101, and exempts students from taking the placement test. *A lower ACT score can be used for placement in a developmental English course.*

An ACT mathematics score of 20 or better or an SAT mathematics score of 480 or better is necessary for placement in MTH 110 or MTH 112, and exempts students from taking the placement test. An ACT score of 18 can be used for placement in MTH 100. An ACT math score of 17 or below requires placement testing.

3. A student has transferred degree-creditable college level English and math courses with a "C" or better. Transcripts must be on file before an exception to the placement testing requirement will be approved.

## ADVISING CENTERS

Advising Centers staffed by advisors are open and operational on the Decatur Campus and on the Huntsville campus. The personnel manning the centers will help students plan their schedule, plan their program of study, and register for classes. New students are required to meet with Advising Center personnel before registering for the first time.

Go to [www.calhoun.edu/advising](http://www.calhoun.edu/advising) to make an appointment to see an advisor.

## DECATUR CAMPUS

Chasteen Student Center 256-306-2648

Hours: 8:00 a.m. - 6:00 p.m. Monday - Thursday

8:00 a.m. - 11:45 a.m. Friday

## HUNTSVILLE CAMPUS

Room 101 256-890-4770

Hours: 8:00 a.m. - 6:00 p.m. Monday - Thursday

8:00 a.m. - 11:45 a.m. Friday

## STUDENT ACTIVITIES

Student activities at Calhoun present various opportunities for students to participate in educational experiences not otherwise provided in the curriculum. The student activities program at Calhoun Community College is the responsibility of the students through the Student Government Association. The purpose of the Student Government Association is to represent every student as a direct line of communication to staff, faculty, and administration. The Student Government Association operates under the direction and supervision of the Student Activities Facilitator and the Dean of Student Services.

## ATHLETICS

Athletic competition is an integral part of the overall educational program at Calhoun Community College. Academic success is the primary goal of each and every student athlete and member of the Athletic Department staff.

At Calhoun, we believe Athletics contributes to education. Success, failure, social contributions, respect for authority, competition, physical growth, mental health, leadership, quick thinking, sacrifice, and self-discipline only scratch the surface of the areas in which athletics contribute. Calhoun's Athletic Department believe the playing area acts as a laboratory of life and encourages participation for the fullest development of each individual's maximum potential.

Education is an investment for tomorrow as well as a requirement of our democratic way of life. Education will be kept in its proper perspective as our foremost goal.

Calhoun Community College is a member in good standing of the National Junior College Athletic Association (NJCAA) and the Alabama Community College Conference (ACCC). Calhoun competes in Baseball, Men's and Women's Golf, and Softball.

## STUDENT GOVERNMENT ASSOCIATION (SGA)

The SGA is intended to provide for active student self-government; to encourage mutual respect among students, faculty, and administrators; to promote the involvement of students in community programs and projects; to provide social and recreational outlets for all students; and to function as an organized and realistic laboratory through which students may acquire and "try out" those skills necessary for living in and improving their communities. Calhoun Community College encourages student participation in institutional decision-making. The SGA represents student views to the college administration through representation on the Discipline Committee and the Parking/Traffic Appeals Committee, as well as other special appointments. All students should take an active part in the SGA by (1) voting in every election; (2) taking the initiative to run for offices; and (3) conveying ideas and/or requests to elected student representatives.

The Decatur campus SGA office is located in the library. The Huntsville campus SGA office is located near the Student Center, room 305. All students are urged to meet with their representatives and to take an active part in the affairs of the student government. There are also officers (President, Vice President, Secretary and Campus Coordinator) located on the Huntsville campus.

## STUDENT GOVERNMENT ASSOCIATION CONSTITUTION

### PREAMBLE

The purpose of this Student Government Association Constitution is to provide a fair and just system of representation for every student at Calhoun Community College so that, through this representation, a direct line of communication will always be open from each student to Student Government officers and personnel, as well as from those officers and personnel to staff, faculty, and administration. These open lines of communication will foster a high degree of service to students and employees, as well as stimulate appreciation of the privileges and responsibilities of citizenship in a democratic society.

## ARTICLE I NAME, PURPOSE, MEMBERSHIP

### Section 1 Name

The name of this organization shall be the Calhoun Community College Student Government Association, hereinafter referred to as SGA.

### Section 2 Purpose

The purpose of the SGA shall be to serve the college by representing the student body and its concerns by communicating these concerns to the students, faculty, and administrators through representation in the Planning Council and various other college committees.

Furthermore, the purpose of the SGA shall be to present various opportunities for students to participate in educational, social, and cultural experiences not otherwise provided in the curriculum.

### Section 3 Membership

The SGA shall be composed of all currently enrolled students. These students shall be represented by the elected Executive and Legislative branches.

## ARTICLE II ADMINISTRATIVE DEPARTMENTS

### Section 1 Branches

The SGA shall be composed of the Executive and Legislative Branches.

## ARTICLE III POWERS OF EXECUTIVE BRANCH

### Section 1 Executive Members

All executive powers of the SGA shall be vested in these members: President - for Decatur, President - for Huntsville, Vice President - for Decatur, Vice President - for Huntsville, Secretary - Decatur, Secretary - Huntsville, Campus Coordinator - Decatur, and Campus Coordinator - Huntsville.

### Section 2 Powers and Duties of the President

- A. Administer and enforce the SGA Constitution, its by-laws, and student senate statutes.
- B. Appoint committee chairpersons and committee members, and make a recommendation for the removal of a committee chairperson or committee member.
- C. Instruct and require reports from executive officers and committee chairs.
- D. Call and preside over bi-monthly meetings of the SGA and the Executive Branch.
- E. Make recommendations for legislation to the Student Senate.
- F. Serve, or appoint a member of the elected body of the SGA to serve, on the Discipline Committee, Student Activities Advisory Committee, and other appropriate institutional committees.
- G. Keep regular, posted SGA office hours - two (2) to three (3) hours a week - approved by the SGA Advisor.
- H. Not holding the Office of President in any other Calhoun Community College club or organizations.
- I. Serve in all other proper and necessary capacities as assigned by the SGA Advisor.

### Section 3a Powers and Duties of the Vice President

- A. In the absence of the President, assume the powers and duties of the President.
- B. In the event of the President's resignation or removal from office, assume the office of the President until the next regularly scheduled election.
- C. Serve in an advisory capacity to all SGA committees and require weekly, written reports from committee chairs on an as-needed basis.
- D. Keep regular, posted SGA office hours - two (2) to three (3) hours a week - approved by SGA Advisor.

### Section 4a Powers and Duties of the Secretary

- A. Record and report the minutes of each meeting of the SGA and the

- Executive Branch.
- Submit to the SGA President, SGA Advisor, and Dean for Student Services, bi-monthly typed written minutes of the SGA and Executive Branch meetings.
  - Serve as corresponding secretary for the Executive Branch.
  - Call or check roll (or make provisions for the task) at each meeting and activity and keep a permanent record of attendance.
  - Keep regular, posted SGA office hours –two (2) to three (3) hours a week – approved by the SGA Advisor.
  - Keep the SGA Constitution updated as it is amended.

### Section 5 Powers and Duties of the Campus Coordinator

- Campus liaison between the SGA and the campus clubs and organizations.
- Bi-monthly report to the SGA officers and Advisor as needed.
- Keep regular, posted SGA office hours - two (2) to three (3) hours a week - approved by the SGA Advisor.

## ARTICLE IV POWERS OF LEGISLATIVE BRANCH

### Section 1 Legislative Members

The legislative powers of the SGA shall be vested in

- Ten (10) representatives at the Decatur campus elected at large from the student body;
- Ten (10) representatives at the Huntsville campus elected at large from the student body;
- One (1) active member of each Calhoun club or organization, elected by the membership of that club.

### Section 2 Powers and Duties of the Legislative Branch

- Administer and enforce the SGA Constitution.
- Propose amendments to the SGA Constitution.
- Be responsible for attending all SGA meetings and participating in all SGA activities, unless excused by the SGA Advisor.

## ARTICLE V QUALIFICATIONS FOR EXECUTIVE AND LEGISLATIVE BRANCHES

### Section 1 Qualifications of Executive Branch

- Any student running for SGA President must have prior Calhoun SGA experience.
- Officers shall be students in good standing taking at least 12 semester hours. Each officer shall maintain a 2.5 or better overall grade point average during his or her term of office.
- The Secretary and Campus Coordinator must have demonstrated computer skills.

### Section 2 Qualifications for Legislative Branch

- All senators of the student body shall be students in good standing taking at least 9 semester hours. Each senator shall maintain a 2.5 or better overall grade point average during his or her term of office.

- First semester freshmen desiring to run for election shall do so, on the basis of high school grades.

## ARTICLE VI ELECTIONS AND SUCCESSION

### Section 1 Election of Executive Branch

- All officers and two (2) senators of the SGA shall be elected and installed to assume office during the month of March.
- Any qualified student may be placed on the official ballot by submitting to the SGA Advisor an application fourteen (14) days prior to the election with a 2.5 grade point average verified by the appropriate Admissions Clerk.

### Section 2 Election of Legislative Branch

- Eight senators of the SGA from the Decatur campus shall be elected and installed to assume office during the month of September.
- Eight senators of the SGA from the Huntsville campus shall be elected and installed to assume office during the month of September
- Any qualified student may be placed on the official ballot by submitting to the SGA Advisor.

### Section 3 Election Procedures

- All elections shall be by secret ballot.
- Election winners will be notified by the SGA Advisor.

### Section 4 Succession

- The President shall be succeeded by the Vice President of the student body.
- The Vice President shall be succeeded by nominations from the executive board to be voted on by the SGA.
- All other vacancies of officers shall be filled by election within the governing body by 2/3 vote of the members present. (See Article XI, Section 2.)
- All senatorial vacancies shall be filled by the candidate with the next highest vote in the prior election. If the quorum of the original members isn't met, nominations will be taken from the floor and elected by a 2/3 vote. (See Article XI, Section 2.)
- If there is a quorum of the original members, then no new senators will be elected after the fall semester.

## ARTICLE VII CONTINUITY OF SERVICE

### Section 1 Executive Branch

- An Executive member in the SGA will be removed from office by a 2/3 vote of the governing body only after the cause has been deemed just by the Student Senate.
- An executive member of the SGA will be removed from office for failure to uphold the oath of office.
- Any disciplinary action taken against an executive member of the SGA by the Discipline Committee may be deemed just cause for removal from office.
- An executive member of the SGA nominated for removal from office shall have the right to be informed in advance and be present at the meeting for the purpose of defending himself/herself.
- Without a vote of the Senate, an executive member of the SGA will be

removed from office for failure to attend meetings, scheduled activities, or failure to meet the GPA requirements. Excuses for absences must be obtained from the SGA President or SGA Advisor. Any more than three (3) unexcused absences from meetings or activities will be deemed just cause for immediate removal from office by the SGA Advisor or Dean of Student Services.

- F. Legislative members can remove a committee chair or co-chair by a majority vote upon a recommendation from the SGA President or the SGA Advisor.
- G. If a legislative member is removed, he/she must be replaced within two (2) weeks.

## **Section 2 Legislative Branch**

- A. A legislative member in the SGA will be removed from office by a 2/3 vote of the governing body only after the cause has been deemed just by the Student Senate.
- B. A legislative member of the SGA will be removed from office for failure to uphold the oath of office.
- C. A senator will be removed from office without a vote of the senate for failure to attend meetings, scheduled activities, or failure to meet the GPA requirements. Excuses for absences must be obtained from the SGA President or SGA Advisor. Any more than three (3) unexcused absences from meetings or activities will be deemed just cause for immediate removal from office by the SGA Advisor.
- D. Any disciplinary action taken against a legislative member of the SGA by the Discipline Committee will be deemed just cause for removal from office.
- E. A legislative member of the SGA nominated for removal from office shall have the right to be present at the meeting for the purpose of defending himself/herself.

## **ARTICLE VIII OATH OF OFFICE**

### **Section 1 Oath of Office**

I solemnly swear (or affirm) that I will faithfully execute the office (Name of Office). I will act always in the best interest of Calhoun Community College and will, to the best of my ability, preserve, protect, and enforce the SGA Constitution of Calhoun Community College.

### **Section 2 Upholding Oath of Office**

Any elected or appointed officer shall uphold the oath of office or shall be dismissed from the SGA.

## **ARTICLE IX MEETINGS**

### **Section 1 General Sessions**

Bi-monthly meetings will be held in the SGA Meeting Room, Brewer Library, Decatur campus, and in the SGA Office on the Huntsville campus.

### **Section 2 Executive Meetings**

The Executive Branch of the SGA shall meet twice a month for the purpose of planning.

### **Section 3 Special Meetings**

Special meetings shall be called when deemed necessary.

## **ARTICLE X RULES OF ORDER**

The rules contained in the current edition of Robert's Rules of Order, Newly Revised shall govern the SGA in all cases in which these rules are not inconsistent with the by-laws and any special rules of order the SGA may adopt.

## **ARTICLE XI CONSTITUTIONAL AMENDMENTS**

### **Section 1 Amendments**

- A. An amendment to the SGA Constitution may be proposed during a regular meeting by any SGA member.
- B. After review by an appointed committee, amendments to the SGA Constitution must be ratified by 3/4 of the active, elected membership.

### **Section 2 Quorum**

A quorum shall be defined as 3/4 of the active, elected membership; a quorum must be present to vote on ANY official business.

Effective 10/00

NOTE: Each SGA member will be required to serve on committees; which include some listed below:

*Fall Fest  
Halloween Costume Contest  
Student Success Committee Focus Group  
Administrative Planning Council  
Food/Hospitality  
Disciplinary  
Spring Fest  
Parking Appeals  
Blood Drive  
Mr. and Ms. Calhoun Community College*

## **STUDENT ORGANIZATIONS AND CLUBS**

Co-curricular organizations and clubs are recognized as an integral part of the total educational program of Calhoun Community College. Students are encouraged to participate in organizations and clubs in order to share their talents and ideas with classmates and college staff, to positively influence the total college program, to enhance personal skills through leadership experiences, and to enjoy a fuller social life through contacts made in co-curricular activities.

The student activities program at Calhoun Community College is the responsibility of the students through the Student Government Association. The purpose of the SGA is to represent every student as a direct line of communication to staff, faculty, and administration. The SGA operates under the direction of the Student Activities Facilitator and the Dean of Student Services.

**THE FOLLOWING IS A LIST OF CAMPUS ORGANIZATIONS AND CLUBS AND BRIEF DESCRIPTIONS OF THEIR FUNCTIONS.**

**Asperger's Support Group** - This is a support group for students with, or students interested in, Autism Spectrum Disorders. Interested parties may contact Dawn Hale, 256-306-2630.

**Bass Fishing Club** - A club that provides opportunities for students to engage in bass fishing, compete in bass fishing tournaments, and promote bass fishing while having a positive influence on people on campus and throughout the community. Sponsor - Meg Graham, 256-306-2836.

**Black Students' Alliance** - A one-of-a-kind group open to all students who want to get to know other students, talk about/plan activities, resolve questions or issues pertaining to Black students, respond to campus and community concerns, and enjoy college life together. Sponsors - Decatur Campus: Carla Larry, 256-306-2540; Trina Smith, 256-306-2980; Ernest Williams, 256-260-2742; Jhauncey Woodruff, 256-260-2444; Huntsville Campus - Felicia Ewing, 256-890-4798; Gerald Jackson, 256-890-4741; Isaac Sakyi-Addo, 256-890-4789

**Books 101** - Club designed to re-create an interest in reading at Calhoun. The club will also discuss and share opinions on plot-lines, characterization, and the writing style of books. Sponsors: Suzanne Turner, 256-890-4740, Parvathy Bhooshanon, 256-890-4786, and Dr. Jill Onega, 256-890-4991.

**Broadcasting Club** - Calhoun Educational Television is dedicated to providing an outlet for Calhoun Community College students who wish to gain experience in, or experiment with the continuously evolving communications medium of television, and to serve as a forum for the community, which will inform, educate, and entertain. Sponsor - Wes Torain, 256-306-2965.

**The Centurions Club** - To assist persons with disabilities to gain access to all programs and facilities at Calhoun Community College. Sponsor - Dawn Hale, 256-306-2630.

**Child Development Club** - This club is designed to promote a spirit of citizenship, leadership, and fellowship among the members of the CDC (Child Development Club), to encourage responsibility for maintaining the high ideals of the child development profession, and to encourage future participation in child development organizations upon graduation. Sponsor - Dr. Isaac Sakyi-Addo, 256-890-4789

**Criminal Justice Club** - A club organized for students who are seeking a career in Criminal Justice and other related fields. Sponsor - James Stewart, 256-890-4795 or jim.stewart@calhoun.edu.

**Campus Ministries** - Baptist Campus ministries, Christian Fellowship, is a Christ-centered organization that offers students the opportunity to grow in leadership skills, discipleship, and personal relationships. Students will find worship, Bible study, music, food, fun, friends, mission trips and much more. Sponsor - Willie Alexander, walexander@alsbom.org; Huntsville Sponsor - Edwin Hocutt, 256-837-9140 or bcm@uah.edu.

**Cornerstone Student Ministries** - (Huntsville campus) - To promote the fellowship of Calhoun Christian students and to serve the Calhoun student body with acts of love and service. Contact: Angie Hood, ahood9734@calhoun.edu.

**Decatur Anime Lounge** - Our purpose is to create a social media club to give individuals a place to gather and partake in popular activities such as viewing anime, playing analog and digital games, role-playing games recruitment, and book club-like discussions on such topics as graphic novels and light novels of a series. The club will explore the Asian culture. Sponsor - Ernest Williams, 256-306-2742 or ernest.williams@calhoun.edu.

**Dental Assisting Club** - To promote the spirit of citizenship, leadership, and fellowship among the members of the organization, to encourage the responsibility for maintaining the high ideal of the Dental Assisting profession, to encourage future participation in the professional Dental Assisting organization upon graduation, and to provide dental assisting representation and communicate concerns to and from the College administration and faculty. Sponsor - Karen Chockley, 256-306-2812 or karen.chockley@calhoun.edu.

**Disability Club** - This club provides information and educates students and faculty about disabilities. The club provides fellowship to students with disabilities and for those without disabilities who have an interest in this area. The club serves as a liaison and/or student representative for the Student Government Association (SGA). Sponsor: Dawn Hale, 256-306-2630.

**Drama Club** - auxiliary to theatre program whose purpose is to foster student interest in theatre arts by attendance at off-campus theatre performances. Sponsor - William Godsey, 256-306-2701, e-mail: will.godsey@calhoun.edu, Fine Arts.

**E.M.S. Club** - To promote citizenship, leadership, and fellowship among the members of the organization, to encourage responsibility for maintaining the high ideals of the E.M.S. profession, to encourage future participation in the professional E.M.S. organization upon graduation, and to provide E.M.S. student representation and communicate concerns to and from the College administration and faculty. Sponsors - Kenneth Kirkland, 256-306-2789 or kenneth.kirkland@calhoun.edu and Tyler Mosley, 256-306-2978 or richard.mosley@calhoun.edu.

**Calhoun Entrepreneurs Club** - To promote entrepreneurship on Calhoun's campuses by gathering like-minded students and immersing them in experiences that develop their skill sets and enhance their abilities to start their own businesses. Contact: Derek Berry at 256-306-2443 or Like us on Facebook at [www.facebook.com/calhounentrepreneursclub](http://www.facebook.com/calhounentrepreneursclub)

**Gay Straight Alliance** - An organization created to be a support system for the members of the GLBT (Gay, Lesbian, Bi and Transgendered) community and make Calhoun a more open and accepting place for those in that community. Sponsor - Susan LoCascio, 256-306-2757 or susan.locascio@calhoun.edu

**The Humanity Front** - The purpose of this group is to share views on topics such as government, religion, culture, laws, etc. but with the idea of putting humanity first. Sponsor - Kenneth Hoffman, 256-306-2763 or khoffman2773@calhoun.edu.

**Calhoun International Club (Huntsville Campus)** - To serve as a means of promoting unity, success, and involvement for students. Sponsors - Sponsors

-Nizar Abudiab (256) 713-4812 or nizar.abudiab@calhoun.edu; Dr. Susan LoCascio (256) 306-2757 or susan.locascio@calhoun.edu; Dr. Divya Pradhan (256) 890-4995 Dr. Divya Pradhan, 256-890-4995 or divya.pradhan@calhoun.edu; Dr. Sivajah Somasundaram, 256-890-4753 or sivajah.somasundaram@calhoun.edu@calhoun.edu; or contact: ccc.intl.club@gmail.com.

**IT Club of Calhoun Community College (Huntsville campus)** - To serve and provide information, instruction and experience to IT club members that will advance and help them with their computer skills. Sponsor - Dr. Charline Nixon, 256-890-4768 or charline.nixon@calhoun.edu

**La Vos/Spanish Club (Huntsville)** - To provide educational opportunities outside of the classroom for those interested in the Spanish language and culture, to help students and the community understand and learn more about the Spanish cultures of Latin America, Spain, and the local Latino community. This club is also organized to expand knowledge and appreciation of the language, customs, history, cultures, and social life of Spanish speakers through events, and to provide a safe and sober environment for students to engage in oral usage of the Spanish language. Sponsor - Dr. Waymon Burke, 256-890-4737 or waymon.burke@calhoun.edu.

**MENC (Music Club)** - acquaints students with the privileges, responsibilities, and leaders of the music profession. Sponsor- Jim Crawley, 256-306-2691.

**Native Americans Club** - This club is for students who are of Native American descent or for students who are interested in learning about the varied cultures that make up the Native American Community of North America. It is dedicated to preserving Native American Heritage and educating the public at large about Native Americans and their rich cultural heritage. Sponsors: Keith Hallmark, 256-306-2652 and Dawn Hale, 256-306-2630. For meeting dates and times, please contact Dawn Hale at 256-306-2630 or dawn.hale@calhoun.edu

**Nursing Club** - promotes citizenship, leadership and fellowship; encourages responsibility for maintenance of high ideals for the nursing profession; and encourages future participation in professional nursing organizations. Sponsors: David Welsh, 256-306-2988 or david.welsh@calhoun.edu and Deby Lee, 256-306-2803 or deby.lee@calhoun.edu.

**Optimist Club** - This club provides hope and positive vision through the members. This club will bring out the best in children, our members, and our community. The club represents adults who are persons of good character from the business, social, and cultural life of the community. Sponsor: Doug Brazier 256-713-4827 or douglas.brazier@calhoun.edu

**Phi Theta Kappa** - Phi Theta Kappa is the International Honor Society for Two-Year College Students. Students who are enrolled (part-time or full-time) at Calhoun, have at least a 3.5 cumulative GPA, and have already earned at least 12 semester hours creditable toward a two-year degree are invited at the beginning of each semester. Phi Theta Kappa focuses on activities and events relating to our four hallmarks: leadership, scholarship, service and fellowship. Each member is encouraged to be active in our organization in order to gain servant leadership experience, widen the scope of his or her knowledge, increase competitive scholarship opportunities and fellowship with other Phi Theta Kappa members in the chapter, state, nation and across the globe. Advisors - Necia Nicholas, (256)

306-2845, e-mail: necia.nicholas@calhoun.edu, and Ragan Chastain, (256) 890-4755, email: ragan.chastain@calhoun.edu. Meeting dates, times, and locations for both campuses will be announced at the beginning of each semester in the Phi Theta Kappa group in your Calhoun e-mail account.

**Photography Club** - The Calhoun Community College Photo Club meets monthly and features fun-filled activities for students with an interest in analog and digital photography. The club hosts special exhibits, seminars and gallery visits. Sponsor - Wes Torain, 256-306-2965 or wes.torain@calhoun.edu.

**Physical Therapist Assistant Club (PTA)** -The club is open to all PTA students at Calhoun Community College for membership. The purpose of the club is to promote a spirit of citizenship, leadership, and fellowship among its members and encourage responsibility for maintaining the high ideals of the PTA profession. Sponsor - Tiffany Day, 256-260-2439 or tiffany.day@calhoun.edu

**Sigma Kappa Delta (SKD – English)** - Sigma Kappa Delta is the National English Honor Society for students in two-year colleges and was created by Sigma Tau Delta, the International English Honor Society for university students. Those who qualify are inducted by invitation. The advantages of SKD include life-long recognition for academic excellence; a chance to qualify for scholarships and the opportunity to participate in activities that celebrate theatre, art, music, reading, and writing; and a chance to attend conferences both locally and nationally. Sponsors – Julie Sneed, 256-306-2723 or julie.sneed@calhoun.edu and Leigh Ann Rhea, 256-306-2940, or leighann.rhea@calhoun.edu. Call for meeting times and locations.

**SkillsUSA** - SkillsUSA is a national organization serving high school and college students who are enrolled in training programs in technical, skills and service occupations, including health occupations programs and tech prep. SkillsUSA has more than 300,000 members in 13,000 chapters and 53 state and territorial associations. SkillsUSA was established in 1965 and has served more than 9.5 million students. Sponsors: Nick Agrawal (256-890-4751), Mark Rose (256-306-2814 or mark.rose@calhoun.edu), Nina Bullock (256-306-2813 or nina.bullock@calhoun.edu) and Tad Montgomery (256-306-2669 or tad.montgomery@calhoun.edu).

**Student Art Club** - The purpose of the Student Art Club is to provide a creative environment for all Calhoun students who wish to pursue, develop and utilize their artistic abilities. Sponsors - Kristine Beadle (256-306-2703 or kristine.beadle@calhoun.edu) and Kathryn Vaughn (256-306-2695 or kathryn.vaughn@calhoun.edu).

**Student Government Association** - represents student views to the college administration and coordinates and carries out the Student Activities program. Officers and two senators are elected in March. Senators are elected in September. Applications to run for SGA may be acquired from the Student Activities Facilitator or SGA office. The SGA President, Vice President, Secretary, and 2nd Vice President and Campus Coordinator may be eligible for a scholarship, but awards must be made within scholarship policies at Calhoun. See your advisor for more information.

Calhoun Community College encourages student participation in institutional decision-making. The Student Government Association represents student views to the college administration through

representation on the Discipline Committee, Parking/Traffic Appeals Committee, as well as other special appointments. Sponsor - Kelly Hovater, - Student Activities Facilitator (256-306-2640 or kelly.hovater@calhoun.edu).

**Student Veterans Association** - The Student Veterans Association provides student veterans with a social network of individuals with similar backgrounds and experiences. The SVA will join student veterans on campus and provide them with connections to other related organizations on or off campus. Sponsor - Huntsville Campus - Stephanie Works, 256-890-4718 or stephanie.works@calhoun.edu.

**S.W.A.T Club** - This club provides members with an opportunity to network with individuals who will enhance their knowledge of information technology and its related fields, as well as exploring career options in the information technology fields. Sponsor: Jack Renfro 256-306-2674 or john.renfro@calhoun.edu

**Warhawks (Hosts and Hostesses)** - The Warhawks are Calhoun's official student hosts and hostesses. They represent the college at official functions, give campus tours, host student and faculty receptions, represent Calhoun Community College at various high school programs, and lots of other exciting activities. It's a great way to meet other students, faculty and administrators, and become involved in student activities. Some of the requirements for being a Warhawk are a positive attitude, a minimum GPA of 3.0, and enrollment in 12 credit hours per semester. Sponsors: Sherika Attipoe (Decatur), 256-306-2560 or sherika.attipoe@calhoun.edu or Dr. Sherry Stancil (Huntsville), 256-306-2560 or sherry.stancil@calhoun.edu. The Warhawks meet every Wednesday at 1:00 p.m. in the Math/Science/Administration Building Conference Room on the Decatur campus, and the Administrative Conference Room on the Huntsville campus.

**Forming a New Club** - anyone interested in forming a new club should complete the "Official Petition for forming Organizations and Clubs" form linked at the bottom of our clubs page, [www.calhoun.edu/student-activities/student-clubs-organizations](http://www.calhoun.edu/student-activities/student-clubs-organizations). For more information, contact the Student Activities Facilitator, Kelly Hovater, (256) 306-2640 or at her office in Brewer Library on the Decatur Campus.

## CAMPUS SECURITY/POLICE



We take your safety seriously. To ensure the continued health and safety of Calhoun students and employees, we must all consider our own security, as well as the security of others, a priority when on campus. Should a crime occur on campus, Calhoun strongly encourages you to report this crime immediately to the College's Campus Security/Police Department by calling 256-306-2575. For emergencies only call 256-306-2911 on the Decatur campus or 256-890-4711 on the Huntsville campus. The office of the Director of Calhoun Police is located in building #6 across from the Machine Tool building on the Decatur campus.

Huntsville Police Department officers are located in the Administrative Office at the Huntsville campus.

Calhoun Community College is proud of its historically safe campus. In an effort to promote awareness and enhance safety, we would like to inform you of our campus crime disclosure report. Should you have any questions or suggestions regarding campus safety, please contact the campus police at 256-306-2574. If an emergency, call 256-306-2911.

## Calhoun Community College Campus Crime Statistical Disclosure Report

Crime	2012 DEC	2012 HSV	2013 DEC	2013 HSV	2013 ACA	2014 DEC	2014 HSV	2014 ACA
Murder	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0
Sex Offenses:								
Forcible	0	0	0	0	0	0	0	0
Non-Forcible	0	0	0	0	0	0	0	0
Robbery	0	0	0	0	0	0	0	0
Aggravated Assaults	0	0	0	0	0	0	0	0
Burglary	0	0	0	0	0	0	0	0
Breaking & Entering								
Motor Vehicle	5	3	2	13	0	1	3	0
Arrests	2	0	2	0	0	0	1	0
Motor Vehicle Thefts	0	2	0	1	0	0	1	0
Liquor Law Violations	0	0	0	0	0	1	1	0
Drug Violations	1	0	0	0	0	2	2	0
Weapons Violations	0	1	0	0	0	0	0	0
Criminal Mischief	8	3	0	2	0	0	2	0
Thefts	21	12	11	8	0	7	3	1
Harassment	9	4	7	3	0	6	1	0
Auto Accidents	12	15	19	9	0	14	3	0
Leaving Scene of Accident	2	8	3	2	0	3	5	0
Public Intoxication	0	0	0	0	0	0	0	0
Property Damage	0	1	1	3	0	4	0	0
Trespassing	2	1	1	2	0	3	9	0
Disorderly Conduct	5	5	1	1	0	4	1	1
Hate Crime	0	0	0	0	0	0	0	0
Domestic Violence	0	0	0	1	0	0	0	0
Medical Calls	0	12	9	6	0	14	12	0

## STUDENT IDENTIFICATION CARDS

All students enrolled at Calhoun Community College are required to have in

their possession a valid Student ID card for general identification purposes and to present it upon demand when requested by a school official. The Student ID card is valid for each semester of the student's attendance. Students ID cards are issued during the first two weeks of each semester for new and transferring students. Replacement ID cards for returning students can be made at a cost of \$20.00. Replacement cost cannot be charged to student accounts and must be paid in cash. The ID card can be used for (1) book buying (campus bookstore only), (2) library book checkout when accompanied by a completed Library Borrower Application, (3) access to learning labs, (4) entrance into college-sponsored activities, (4) check cashing, and (5) student discounts. Student ID pictures are taken in room 107 of the Chasteen Student Center, and also the Huntsville campus. Check the Calhoun website for specific schedules each semester.

## **MOTOR VEHICLE REGISTRATION**

All students driving any type of motor vehicle on campus must secure and properly affix an official college parking decals to the vehicle regardless of the location of classes. Parking decals are available at the switchboard at the Decatur campus or the Security Office at the Huntsville campus. For students who have received disability access license plates or disability access placards for Disability Access Parking Privileges under Alabama law and who wish to use College disability access parking spaces, special disability access parking on the second floor of the Chasteen Student Center, upon appropriate documentation by the respective student of having received Disability Access Parking Privileges. Decals may also be obtained at the Huntsville Campus Security Desk. In the interest of safeguarding designated disability access parking spaces from misuse by persons who are not properly entitled to use those spaces, the use of disability access parking spaces will be only permitted for those cards that display both a College disability access decals and either a disability access license plate or a disability access placard.

## **HANDICAP PARKING POLICY**

Eligibility to access available handicap parking on campus requires that a student, faculty or staff member show proof that they are the legally registered recipient of the state issued handicap parking placard. A valid Calhoun ID along with a receipt, similar to a tag receipt from the Department of Motor Vehicles will be required to verify that the faculty, staff, or student is the registered user of the handicap placard or handicap tag and must be presented to the Disability Services Office. Students must also show a current (paid) schedule. The Calhoun handicap parking placard must be displayed on the rear-view mirror of the eligible vehicle when parked on campus. The handicap parking areas will be monitored. Fines for handicap parking violations are \$50.00.

## **ABANDONED VEHICLES**

If a vehicle is left unattended or is left in the same place for more than ten (10) days, the vehicle will be considered abandoned and will be towed at the owner's expense. If a vehicle is illegally parked (for example, blocking another vehicle that is legally parked), the illegally-parked vehicle will be towed at the owner's expense.

## **PARKING/TRAFFIC CITATION APPEALS COMMITTEE**

This is a three-member committee made up of students appointed by the Student Government Association. It is charged with the responsibility of hearing and ruling on each case in which a student appeals having received a parking ticket. The committee meets each Friday at 11:00 a.m. in the Student Activities Office, Decatur campus. Parking appeals at the Huntsville campus should be made to the Dean of that campus.

## **RESTROOM POLICY**

Restrooms and locker rooms are designated separately for women, men and gender neutral. Gender neutral restrooms are identified as such and may be used by either gender. Any individual using the other biological gender's restroom or locker room shall be subject to discipline. Gender neutral restrooms are available and located in the following locations:

### **Calhoun Community College Single Use Bathrooms**

1. ATC - Both a men's and women's single use bathroom off of the hallway at the east end of the High Bay.
2. HS - Unmarked single use bathroom on the first floor next to the Men's restroom.
3. CAT - No single use restrooms.
4. Spa Management - one Staff/Faculty single use bathroom.
5. IT - 2 men and 1 women single use bathrooms.
6. Campus Police - Both men's and women's single use bathrooms.
7. Noble Russell - One single use unisex bathroom off of the dressing room off of the main TV suite (hard to find).
8. CBIT - One single use bathroom off of the upholstery lab. Both a men's and women's single use bathroom in the NCCER training lab.
9. Testing Center/Adult Education - None.
10. Energy Technology - One single use bathroom.
11. Industrial Technology - One single use women's. Aviation - One single use women's.
12. Machine Tool - One single use unisex.
13. MSA - One unmarked single use (Family) bathroom off of 1<sup>st</sup> floor vending.
14. Student Center - None.
15. Harris Hall - Single use bathrooms on every floor inside faculty suites only.
16. Maintenance - One single use bathroom.
17. Wallace - None.
18. Library - Both men's and women's single use bathrooms.
19. Fine Arts - None.
20. Gym - One single use bathroom/shower/locker room.
21. Ball Field Concessions - None.
22. ACA - None.
23. Huntsville - Two unmarked single use men's and women's bathrooms on the main floor inside the staff mailroom/lounge. Two unmarked single use men's and women's single use bathrooms on the lower level inside faculty lounge.

### **Gender neutral locker rooms are located in the following:**

There is a single use locker room located in the gym.

## **SEX OFFENDER REGISTRATION**

Registered Sex Offenders must provide a copy of their Form 47 (information submitted to the registering law enforcement agency) along with a copy of their schedule for that semester to the Calhoun Community College Police Department. The Decatur Campus Police Dept. is located in Building #6 and the Huntsville Campus Police Dept. is located at the Front Entrance of the Main Building.

## WEAPONS POLICY

No person shall keep, use, possess, display, or carry any rifle, shotgun, handgun, knife, bow and arrow, or other lethal or dangerous weapons or devices capable of casting a projectile by air, gas or explosion, or mechanical means on any property or in any building owned or operated by Calhoun Community College or in any vehicle on campus. Realistic facsimiles of weapons are also not allowed.

If an instructor approves such items to be demonstrated for class purposes only, the instructor and student must obtain permission from Calhoun Police.

Any such person seen with or using such weapons on campus will be subject to disciplinary and criminal charges.

Pursuant to state board policy 511.01, Calhoun Community College adheres to the following:

Firearms are prohibited on campus or any other facility operated by the College. Exceptions to this policy are: Law enforcement officers legally authorized to carry such weapons who are officially enrolled in classes or are acting in the performance of their duties or an instructional program in which firearms are required equipment. If the off-duty officer is a student, he/she must notify campus police once a semester. A weapon is prohibited from any type of hearing for personal business.

## TOBACCO-FREE POLICY

Calhoun Community College is committed to providing a safe and healthy environment for its employees, students and visitors. The College recognizes the right of persons to make their own decisions about their personal use of tobacco products away from the College. However, in light of findings of the U.S. Surgeon General that exposure to secondhand tobacco smoke and the use of tobacco products are significant health hazards, it is the intent of the College to establish a tobacco-free environment on its campuses and in its vehicles. Consequently, the use, distribution, or sale of tobacco products, including the carrying of any lighted smoking instrument, in College buildings or in or upon other College premises or inside College owned, rented or leased vehicles is prohibited.

For the purposes of this policy, a "tobacco product" is defined to include any lighted or unlighted cigarette (including electronic cigarettes), cigar, pipe, bidi, clove cigarette, or any other smoking product, as well as smokeless or spit tobacco, also known as dip, chew, snuff, or snus, in any form.

All College employees, students, visitors and contractors are required to comply with this policy, which shall remain in force at all times. Any College employee or student found to be in violation of the tobacco-free policy will be subject to a monetary fine. Tickets will be issued by campus police

officers for violations of Calhoun's tobacco-free policy. Monetary fines will be imposed as follows:

## STUDENT FINES

Any Calhoun student found to have violated this policy shall be subject to the following fines:

1st Ticket	\$25.00 Fine
2nd Ticket	\$25.00 Fine

All fines must be paid within seven (7) days of ticketing. Fines that are not paid within the seven (7) days shall automatically double in amount.

A student who has pending fine or fines may not register for classes nor have transcripts released until all fines are paid in full.

Any student wishing to appeal a fine arising from the finding of a tobacco-free violation under this policy may do so with the Dean of Student Services, Dr. Patricia Wilson.

## EMPLOYEE FINES

Any Calhoun employee found to have violated this policy shall be subject to the following fines:

1st Ticket	\$25.00 Fine
2nd Ticket	\$25.00 Fine

All fines must be paid within seven (7) days of ticketing. Fines that are not paid within the seven (7) days shall automatically double in amount.

Any employee wishing to appeal a fine arising from the finding of a violation of this policy may do so with the Vice-President for Academic Affairs.

With the exception of advertising in a newspaper, magazine, or similar publication that is not produced by Calhoun Community College, no tobacco-related advertising or sponsorship shall be permitted on Calhoun Community College property or at college-sponsored events. No tobacco-related advertising or sponsorship shall appear in any publications produced by the College or by any club or association authorized by Calhoun Community College. For the purposes of this policy, the term "tobacco-related" applies to the use of a tobacco brand or corporate name, trademark, logo, symbol or motto, selling message, recognizable pattern of colors or any other indicia of product identification identical to or identifiable with, those used for any brand of tobacco products or company which manufactures tobacco products.

The College President will develop administrative regulations and procedures as necessary to implement this policy, including provisions for notification, signage, disciplinary consequences, complaint procedures and enforcement.

Procedures will be developed to offer, promote prevention and education initiatives that actively support non-use and address the risks of all forms of tobacco use. The College will also endeavor to have information available for its students and employees on community programs or services related to helping persons stop the use of tobacco products.

## TRAFFIC AND PARKING REGULATIONS

Every effort is being made to help students have a place to park while attending classes. Complete cooperation among drivers is requested. All students who drive motor vehicles on any of Calhoun Community College's sites are responsible for knowing and abiding by parking/traffic regulations.

## PARKING/TRAFFIC REGULATIONS

Students who are enrolled at Calhoun Community College are required to secure parking permits for their vehicles regardless of class location.

## PARKING/TRAFFIC DECALS

1. Decals can be acquired at the switchboard in Chasteen Student Center at no charge. Permits also can be acquired from the security office at the Huntsville campus.
2. Decals must be hung on rear-view mirror of automobiles/trucks or affixed where visible on motorcycles.
3. Open Parking
  - White Decals – Employee
  - Dark Blue Decals – Student
  - Yellow Decals – Handicapped Persons (obtained from the ADA Office)

Student parking for the Huntsville campus is restricted to the open lots to the west and south of the building. Parking for the Decatur campus is restricted to the open lots that run north and south throughout the campus. No parking is allowed on either campus against the curbs, which are reserved for emergency vehicles.

4. If a student drives more than one vehicle on campus regularly, the student must have a decal for each vehicle.
5. In the event of car trouble or other extenuating circumstances, temporary decals may be obtained from Campus Police or Huntsville Campus Bookstore. Temporary permits must be obtained immediately upon arrival and displayed in vehicle.
6. Decals expire August 31 of each year.

## FINES

1. The following schedule of fee penalties will be applied to parking and traffic violations.
 

a. Failure to properly display parking decals in vehicle .....	\$10.00
b. Speeding on campus .....	\$10.00
c. Running stop sign .....	\$10.00
d. Unauthorized parking in zones for disabled	
Decatur Campus .....	\$50.00
Huntsville Campus .....	\$50.00
e. Fire lane violations,	
Huntsville Campus.....	\$50.00
f. Improper parking (example: taking up two spaces) .....	\$10.00
g. Other violations (example: obscured decal, entering or exiting in the wrong direction) .....	\$10.00
2. All fines must be paid within 7 days of ticketing. Fines that are not paid within the 7 days automatically double.

3. A student may not register for classes nor have transcripts released until all fines are paid.
4. Any student wishing to appeal a parking/traffic fine may do so by appearing before the S.G.A. Parking/Traffic Appeals Committee. This is a three-member committee made up of students appointed by the Student Government Association. It is charged with the responsibility of hearing and ruling on each case in which a student appeals having received a parking ticket. The committee meets on a scheduled basis in the Chasteen Student Center, Decatur campus. Parking appeals at the Huntsville Campus location should be made to the Dean of that campus.

## ACCIDENTS

Any individual who is involved in an automobile accident while on campus must immediately report the motor vehicle accident to a campus police officer. Campus police may be contacted by calling one of the numbers listed below.

## NEED ASSISTANCE?—CALL SECURITY

### Decatur Campus

- Extension 2575 on campus, (or)
- Ask the Calhoun switchboard operator to contact Campus Police for you.

### Huntsville Campus

- Contact the Huntsville Campus Office personnel (256-890-4701).

## CAMPUS POLICE COURTESY SERVICES

The Campus Police/Security Office is available to assist with a jump for dead batteries or ignition keys locked inside the car anywhere on campus. The Campus Police/Security Office will not be liable for any damage to vehicles caused as a result of these courtesy services. Because of extensive liability regulations, the Department cannot assist with tire changing. To reach an officer, dial 256-306-2575 for the Decatur Campus and 256-890-4701 for Huntsville.

## COLLEGE POLICIES AND REGULATIONS

### NOTICE OF AVAILABLE ACCOMMODATIONS FOR STUDENTS, EMPLOYEES, AND APPLICANTS WITH DISABILITIES.

Calhoun Community College does not discriminate on the basis of disability in admitting students to, providing access to, or in the operations of its programs, services, or activities, or in its hiring or employment practices.

Questions, concerns, complaints, requests for information, or requests for the provision of reasonable accommodations to persons with disabilities should be directed to Calhoun Community College's ADA Compliance Coordinator, whose name, address, e-mail, and phone number are shown below:

Dr. Patricia A. Wilson  
Dean of Student Services  
Chasteen Student Center, Room 205  
P.O. Box 2216  
Decatur, Alabama 35609-2216 patricia.wilson@calhoun.edu  
Phone: 256-306-2743  
Fax Number: 256-306-2948  
Office Hours: 7:45 a.m. - 5:15 p.m., Monday-Thursday  
7:45 a.m. - 11:45 a.m. - Friday

Students who need auxiliary aids for effective communication in participating in the programs and services of Calhoun Community College should make these needs known to the ADA Compliance Coordinator or designee. This notice is provided pursuant to the requirements of the Americans with Disabilities Act of 1990. It is also available in larger print, on audio tape, and in braille from the ADA Compliance Coordinator.

## STUDENT CODE OF CONDUCT AND DISCIPLINARY PROCEDURES

### STUDENT RESPONSIBILITIES

#### Conduct Expectations

The College assumes that entering students are adults who have developed mature behavior patterns, positive attitudes, and conduct above reproach. Students are treated in accordance with this belief. The College reserves the right to discipline any student whose on- or off-campus behavior is considered undesirable or harmful to the College.

Children are not allowed to attend classes with students or faculty. No minors should be left unattended in any building of Calhoun Community College.

No animal or pet may be brought on campus. Exceptions to this policy include guide dogs for the disabled, laboratory animals, and animals to be used for previously-approved instructional purposes or special programs.

### DRUG POLICY

In compliance with the Drug Free Schools and Communities Act Amendment passed by the U.S. Congress in 1989, Calhoun Community College has adopted and implemented a program to prevent the use of illicit drugs and the abuse of alcohol by students and employees. This publication contains information concerning standards of conduct – legal sanctions, health risks, available treatment and disciplinary sanctions for violations of the policy.

### DRUG POLICY STANDARDS OF CONDUCT AND ENFORCEMENT

Calhoun Community College is a public educational institution of the State of Alabama and, as such, shall not permit on its premises, or at any activity which it sponsors, the possession, use, or distribution of any alcoholic beverage or any illicit drug by any student, employee, or visitor. In the

event of the confirmation of such prohibited possession, use, or distribution by a student or employee, Calhoun Community College shall, within the scope of applicable Federal and State due process requirements, take such administrative or disciplinary action as is appropriate. For a student, the disciplinary action may include, but shall not be limited to, suspension or expulsion. For an employee, such administrative or disciplinary action may include, but shall not be limited to, reprimand, or suspension or termination of employment, or requirement that the employee participate in and/or successfully complete an appropriate rehabilitation program. Any visitor engaging in any act prohibited by this policy shall be called upon to immediately cease such behavior. If any employee, student or visitor shall engage in any behavior prohibited by this policy which is also a violation of Federal, State, or local law or ordinance, that employee, student, or visitor shall be subject to referral to law enforcement officials for arrest and prosecution.

### LEGAL SANCTIONS

In compliance with the Drug Free Schools and Communities Act Amendment passed by the U.S. Congress in 1989, Calhoun Community College has adopted and implemented a program to prevent the use of illicit drugs and the abuse of alcohol by students and employees. A brochure titled "Drug Policy: In Compliance with the Drug Free Schools and Communities Act Amendment, Calhoun Community College" concerning standards of conduct, legal sanctions, health risks, available treatment and disciplinary sanctions for violation of the policy can be found in the Albert P. Brewer Library, Decatur Campus, and the Huntsville Campus Library, the Office of the Dean of Student Services, and in offices of students services staff at the Decatur and Huntsville campuses.

### CODE OF CONDUCT

All students of Calhoun Community College shall be expected to conduct themselves in an honorable, ethical fashion. However, in the event of proven misconduct, appropriate disciplinary action will be taken. The following sections address the Student Code of Conduct, as well as the College's disciplinary procedures.

**Misconduct Defined.** A student shall be subject to disciplinary action by the College, up to and including dismissal, for misconduct on any property owned or controlled by the College, or off campus at any function which is authorized, sponsored, or conducted by the College or in parking lots adjacent to areas or buildings where College functions are being conducted. Such misconduct shall include the **commission of**, the **attempt to commit**, or the **solicitation of** any of the following offenses:

1. Any form of dishonesty, including cheating, plagiarism, or furnishing false information to the College.

*Cheating* is defined, for academic purposes, to include, but not be limited to, the use of unauthorized aids (such as crib sheets or other items such as written materials; drawings; lab reports; discarded computer printouts, stored information, or programs); unauthorized assistance on take-home exams or projects; copying, or copying from, another student's work; soliciting, providing, and/or receiving any unauthorized aid or assistance (whether orally or in writing); or similar

or equivalent acts contrary to the principles of academic honesty.

*Plagiarism* is defined to include the act of using in one's work, or as one's work, the work of another without clearly indicating that the work is someone else's and stating the source of the other's work.

2. Forgery, alteration, or misuse of College documents, records or identification.
3. \*Intoxication from, or the use, display, or possession of, alcoholic beverages or any controlled substance (drug), as outlined by the *Code of Alabama*, unless the student has a valid prescription for the use of the respective controlled substance.
4. Use, possession, or distribution of firearms, ammunition, fireworks, or any type of explosive or incendiary device or material. Only duly constituted law enforcement officers may possess firearms on campus.
5. \*Disorderly or disruptive conduct, including rioting, inciting to riot, assembling to riot, raiding, inciting to raid, and assembling to raid college properties. This offense also includes in-class behavior, which, in the opinion of the respective instructor, unduly disrupts the order of a class.
6. Lewd, indecent, obscene, or unduly offensive behavior or expression. This offense includes, but is not limited to, the usage of verbal or symbolic expressions, which would tend to be reasonably interpreted as insulting to one's race, gender, religion, age, national origin, or disability.
7. Participation in any form of gambling.
8. Unauthorized entry to College facilities.
9. Unauthorized possession, duplication or use of a key to College facilities, and/or interference with the use of or access to a College facility.
10. \*Theft of, or intentional damage to, property of the College or to the property of any member of the College community or visitor to the College.
11. Intentional misuse of any College fire alarm or fire-fighting equipment.
12. \*Actual or threatened physical abuse of any person including domestic violence, dating violence, sexual assault, or stalking (menacing), as defined under Alabama State Law, verbal abuse, threats of intimidation, harassment, and/or coercion, including hazing or any other act, which would tend to endanger the health or safety of the College environment or any person on campus.
13. \*Failure to promptly comply with directions of College officials or law enforcement officers acting in the performance of their duties, furnishing false information to any College official, and/or failure to identify oneself to these persons when requested to do so.
14. The wearing of attire which, in the opinion of the administration of the

College, is lewd or immodest to the extent that it would tend to disrupt the educational process and/or infringe upon the rights of any other student or employee of the College.

15. Violation of any College policy or regulation as published or referred to in the College catalog, student handbook, or College website including, but not limited to, those governing the time, place and manner of public expression; the registration of student organizations; and use of or parking of motor vehicles on the campus.
16. Violation of any Federal, State, or local law or ordinance.
17. Disruption or obstruction of teaching, administration, disciplinary proceedings, other College activities, including its public service functions on or off campus, or of other authorized non-College activities when the conduct occurs on College premises.
18. Theft or other abuse of computer facilities and resources, including but not limited to
  - a. Unauthorized entry into a file, to use, read, or change the contents, or by any other purpose.
  - b. Unauthorized transfer of a computer file.
  - c. Use of another individual's identification and/or password.
  - d. Use of computing facilities and resources to interfere with the work of another student, faculty member or College Official.
  - e. Use of computing facilities and resources to send obscene or abusive messages.
  - f. Use of computing facilities and resources to interfere with normal operation of the College computing system.
  - g. Use of computing facilities and resources in violation of copyright laws.
  - h. Any violation of the College Computer Use Policy.
19. Abuse of the Student Code of Conduct System, including but not limited to
  - a. Failure to obey the notice from the Dean or College official to appear before a meeting or hearing as part of a Student Conduct Proceeding.
  - b. Falsification, distortion or misrepresentation of information before a Student Conduct Committee.
  - c. Disruption or interference with the orderly conduct of a Student Conduct Committee proceeding.
  - d. Attempting to discourage an individual's proper participation in, or use of, the student conduct system.
  - e. Attempting to influence the impartiality of a member of a Student Conduct Committee prior to, and/or during the course of the Student Conduct Committee proceeding.
  - f. Harassment (verbal or physical) and/or intimidation of a member of a Student Conduct Committee prior to, during, and after a student conduct code proceeding.
  - g. Institution of a student conduct code proceeding in bad faith.
  - h. Failure to comply with the sanctions(s) imposed by the Committee under the Student Code of Conduct.

\*The commission of any of these particular offenses will subject the student to immediate, automatic disciplinary suspension or expulsion from the

College, if the Dean of Student Services has probable cause to believe that the respective student committed such an offense. In such case, the Dean of Student Services will set a hearing for the earliest reasonable date after the alleged occurrence of the violation.

## STUDENT DISCIPLINARY PROCEDURES

Students are guaranteed procedural due process in all cases involving formal discipline charges. College disciplinary procedures are designed to assure a student's right to procedural and substantive due process and to the fullest extent feasible, safeguard personal and confidential information concerning the student.

**Disciplinary Action by Instructor.** With regard to a matter of academic dishonesty in taking a college course, the College's respective faculty members are authorized to administer certain appropriate disciplinary action. If a given faculty member has substantive evidence of a student's having committed, attempted to commit, or solicited an act of cheating, plagiarism, or any other form of academic dishonesty, the faculty member shall have the authority to (1) impose a grade of "F" for the respective assignment or test; (2) impose an "F" for the respective course; (3) require that an assignment be redone or a test be retaken; (4) impose other similar sanctions designed to preserve academic integrity. The faculty member shall not have the right to suspend or expel a student. That authority is reserved for the Dean of Student Services and the College Disciplinary Committee. If the faculty member believes that the improper conduct should be subject to greater punishment, or additional punishment, then the case should be referred to the Dean of Student Services for disciplinary review.

In any situation where a student is alleged to have committed academic dishonesty of any nature, the faculty member making the allegation shall, within three (3) business days after the alleged wrongful act or the faculty member's first knowledge of the act, give the student written notice of the allegation and give the student the opportunity to respond to each allegation made. The student shall have a maximum of (3) business days to respond to any allegation made. No disciplinary grade imposed by a faculty member shall be considered final unless and until the student has been given written notice of the alleged wrongdoing and the opportunity to respond. It is not necessary that the student give a response for a grade to be finalized, only that the student has been given an opportunity to respond and that the instructor give due consideration to any response which is made. Each instructor shall keep a confidential file of any and all written allegations of academic dishonesty and all actions taken with regard to such allegations.

Any student against whom a sanction is imposed by a faculty member as a result of an allegation of academic dishonesty shall have the right to appeal the sanction to the Dean of Student Services. The appeal must be filed with the Dean within five (5) business days after the student is first made aware of the date that the decision has been made to impose a sanction and must include: (1) a copy of the faculty member's written allegation of academic dishonesty; (2) a statement of the sanction imposed; (3) the dates on which the student received the written allegation and on which the student responded to the allegation; (4) the nature of the student's response to the faculty member concerning the allegation; and (5) the rationale for the appeal of the sanction. The student shall have the option of admitting to the

Dean the act of academic dishonesty and proposing an alternative sanction.

The Dean of Student Services shall, within fifteen (15) business days after receipt of the appeal, issue a report by which the Dean will (1) affirm the sanction; (2) overrule the sanction; or (3) modify the sanction. The Dean shall not overrule or modify any sanction imposed by a faculty member except where there is a compelling and substantial academic or legal reason for doing so.

The decision of the Dean shall be final and binding as to each party, and any grade affected by the Dean's decision shall be recorded so as to reflect the Dean's decision.

**Disciplinary Action by Dean or Disciplinary Committee.** With regard to all alleged violations of the Student Code of Conduct other than those handled at the faculty level, the Dean of Student Services shall have the authority to make disciplinary decisions at the administrative level and shall refer appropriate appeals to the College Disciplinary Committee who shall ensure that the fundamental elements of due process are followed through a fair and reasonable hearing. The Dean shall also have the discretion of referring a case to the Disciplinary Committee for the initial hearing. The Dean shall maintain appropriate records of all reports of student misconduct and all disciplinary proceedings.

Alleged violations of College regulations must be filed, within sixty (60) calendar days of their respective occurrence or the first discovery of their occurrence, in writing with the Dean in order to initiate a disciplinary review. Any student, faculty member, or staff member may register a complaint with the Dean. The Dean will then inform the accused in writing, will request a conference, and will render a decision to the student regarding the case in question. The decision will be one or more of the following:

1. Find the accused not guilty and dismiss the case.
2. Refer the student to a counselor for personalized assistance.
3. Find the student guilty as charged and apply the appropriate penalty stated under "Disciplinary Actions."
4. Refer the case directly to the College Disciplinary Committee for a hearing and determination as to disciplinary action.

Upon communicating his/her decision to the student, the Dean will also explain the student's right to appeal to the Disciplinary Committee any disciplinary action imposed by the Dean. If the student wishes to appeal a decision by the Dean, he/she must file a written request, stating the reason(s) for the appeal, with the Dean within 48 hours. The Dean will then have 48 hours to refer the case to the Disciplinary Committee along with his/her recommendation for disciplinary action. The Committee will schedule and conduct a hearing under the guidelines specified in "Hearing Procedures," and will submit its decision in writing to the Dean and the accused student.

**College Disciplinary Committee.** Recognizing the right of students to be granted due process in all matters of a disciplinary nature, the College

assures due process through the authority and activities of the College Disciplinary Committee.

The College Disciplinary Committee shall consist of three (3) members of the administration, faculty, library or counseling staff, appointed by the Dean of Student Services (at least two of the three should be teaching faculty) and two students appointed by the President of the Student Government Association in consultation with the Student Activities Facilitator. If the Committee is selected at a time when there is no sitting SGA President, or when the SGA President is unavailable, then the two students shall be selected by the Dean of Student Services. A faculty representative serving on the Disciplinary Committee shall be appointed to serve as Chair of the Committee.

The purposes of the Disciplinary Committee are as follows:

1. Hear charges and evidence concerning alleged student misconduct and direct action to be taken in cases appealed by students referred to the Committee by the Dean of Student Services.
2. Impose appropriate disciplinary action when such action is warranted by evidence presented in a disciplinary hearing.
3. Review and make recommendations to the Dean of Student Services on student disciplinary policies and procedures.

## **HEARING PROCEDURES**

Each party to a disciplinary hearing shall be given prior written notice by the Chairperson of the Disciplinary Committee of the date, time, and place of the hearing. Whenever feasible, this notice shall be at least 72 hours in advance. The notice will be delivered in person or sent by certified mail. If the Committee determines that a party is intentionally avoiding service, the Committee may elect to hold the hearing in the absence of such party upon a majority vote of the Committee members.

### **Attendance at Hearing**

1. Disciplinary Committee hearings shall be private and confidential and will be limited to persons officially involved. Persons present shall include Disciplinary Committee members, the Dean of Student Services or his/her designee, the student who is the subject of the hearing and his/her advisor, appropriate staff members, a recorder, and witnesses for both parties. Non-party witnesses will be present only when giving testimony. The Dean of Student Services, or his/her designee, shall be responsible for preparing and presenting the College's case. NOTE: All references in these hearing procedures to the "Dean of Student Services" shall also apply to any designee of the Dean.
2. The student shall have the right to have one advisor, who may be, but does not have to be, an attorney, present during the hearing. The advisor may not address the hearing to give evidence on behalf of the student. In answering or asking questions, the student may seek advice from the advisor before proceeding.
3. In the event that a disciplinary hearing is scheduled for a student, and the student has been made aware of the date, time, and place, but fails

to appear at the hearing, the hearing may be conducted in the student's absence.

4. The hearing will be recorded by either a certified court reporter or on audio or videotape. The record of the hearing, including a copy of all evidence offered, whether admitted or not, will be filed in the office of the Dean of Student Services and will be kept confidential.

### **Order of Hearing**

1. Opening remarks by the Chairperson of the Disciplinary Committee.
2. Review of charges and any action previously taken in the case by the Dean of Student Services.
3. Opening statement by Dean or his/her designee (not more than ten minutes).
4. Opening statement of not more than ten minutes by the accused student.
5. Presentations of evidence by the parties, including testimony and questioning of witnesses. Witnesses for the College will present testimony first. Following the testimony of all College witnesses, the student may call his/her witnesses. Both parties to the action and the members of the Disciplinary Committee have the right to question all witnesses. The Committee shall not have the authority to compel an accused student to testify against himself/herself, but the Committee may take into account the failure of the student to testify when deliberating the evidence.
6. Closing statement (not to exceed 20 minutes) by the student.
7. Closing statement (not to exceed 20 minutes) by the Dean of Student Services.
8. Deliberation by the Disciplinary Committee.
9. Report of Committee Findings.

The Disciplinary Committee will conduct its deliberation in closed and confidential session and, after reaching its decision, will orally inform the parties of the decision. Each party will subsequently be provided a written rendition of the findings of the Committee.

Prior to beginning any hearing, the Disciplinary Committee shall make an assessment as to what would be a reasonable amount of time to be allotted for a hearing and may limit the time for any or all aspects of the hearing so as to conform to the allotted time.

### **Rules of Evidence**

The evidentiary standard to be used by the Committee shall be the "Preponderance of Evidence" standard, rather than the "Beyond a Reasonable Doubt" standard. That is to say that the Committee shall determine, strictly upon the evidence presented, whether it was more likely than not that the allegation(s) made against the accused student was (were) true in terms of which of the evidence was more credible and convincing to the reasonable mind.

The Committee shall inform the parties that the rules relating to the admissibility of evidence shall be similar to, but less stringent than, those which apply to civil trials in the courts of Alabama. Generally speaking, irrelevant or immaterial evidence and privileged information (such as personal medical information or attorney-client communications) shall be excluded. However, hearsay evidence and unauthorized documentary evidence may be admitted if the hearing chairperson determines that the evidence offered is of the type and nature commonly relied upon or taken into consideration by a responsible, prudent person in conducting his/her affairs.

In the event of an objection by any party to any testimony or other evidence offered at the hearing, the chairperson shall have the authority to rule on the admissibility of the evidence, and this ruling shall be final and binding.

## DISCIPLINARY ACTION

The following disciplinary actions will be administered according to the severity of the infraction as determined by the Dean of Student Services and/or the Disciplinary Committee:

1. *Disciplinary Reprimand.* This may be an oral or written warning. It notifies a student that any further violation of College regulations may subject the student to more severe disciplinary actions.
2. *Disciplinary Probation.* This is designated to encourage and require a student to cease and desist from violating College regulations. Students on probation are notified in writing that any further misbehavior on their part will lead to more severe action.

Disciplinary Probation will be for the remainder of the existing semester and for all of the following semesters of attendance.

3. *Disciplinary Suspension.* This excludes a student from the College for a designated period of time, usually not more than two semesters. While on suspension, a student will not be allowed to take any course at the College. At the end of the designated period of time, the student must make formal reapplication for admission.
4. *Class Suspension.* A student may be suspended from attending one or more specified courses for improper behavior. Class suspensions are for the remainder of the semester, and the student will be assigned a letter grade of "F" for each course from which he/she is suspended.
5. *Library Suspension.* A student may be suspended from using the library for improper or disruptive behavior in the library. Library suspension will be for a period of time not to exceed the remainder of the semester.
6. *Disciplinary Expulsion.* This is the strongest disciplinary action. This category of severe penalty generally indicates the recipient may not return to the College. Disciplinary expulsion normally would be the least-used disciplinary action and would be applied only to students who are guilty of chronic misbehavior or a major breach of conduct. The College reserves the right, but has no duty, to lift the probation against re-enrollment upon its consideration of a written application for readmission evidencing that the student has demonstrated an ability and readiness to comply with all

College rules and regulations. The College will not consider such a request until at least one year from the date of expulsion.

7. *Payment of Damages.* Charges will be assessed against a given student or students for the amount necessary to repair damage caused by student or students' behavior.

Factual findings of the Disciplinary Committee shall be deemed correct and shall not be subject to appeal. Nor shall disciplinary actions imposed by the Disciplinary Committee be subject to appeal, except upon a written demonstration to the President of the College that the Committee: (1) was not formed in accordance with the above-described selection process or (2) acted blatantly contrary to the above-stated provisions for disciplinary action in terms of the type and/or severity of punishment imposed. In any case where the President determines that either of the two foregoing conditions was present, the President shall have the discretion of either affirming the disciplinary action, reversing the action, or dismissing in part and affirming in part the subject disciplinary action.

A disciplinary suspension or expulsion shall not result in a notation on a student's permanent record. A notice that a student is currently on suspension or expulsion and ineligible to return to the College until a certain date shall be attached to the student's file. In the event that the student becomes eligible to re-enroll, the notice shall be removed.

## INTELLECTUAL PROPERTY FOR STUDENTS

All student work submitted as a requirement for course credit is the intellectual property of that student and the student may use or publish his/her work without any authorization from the College.

The student must obtain written consent from the College in order to use or publish material of which the student is neither the author nor the collaborator.

## COMPUTER USE POLICY

Students are expected to know the college's computer use policy and to follow said policy. Any student who violates that policy will be formally charged in writing by the Dean of Student Services.

## COMPUTER TECHNOLOGY ACCEPTABLE USE POLICY

**Individuals are Fully Responsible** for their own actions while using Calhoun Community College's (Calhoun) "computer technology" (defined as Calhoun computers and computer-related equipment, programs, supplies, and network communications, including Internet access gained through Calhoun's computer network). Users must respect the privacy and rights of others, and the integrity of both the hardware and software being used. Accordingly, users must assume responsibility for making the best possible use of access privileges and for not abusing them. Employee questions concerning access, acceptable and unacceptable use, should be directed to the Director of Information Technology. Student questions should be directed to the appropriate instructor or the Campus Dean or designee.

**Limited Access:** Calhoun reserves the right to limit the access of any and all employees and students to certain software programs or directories.

Each user is provided with a certain access level. A user may not access a computer without authorization or exceed authorized access. A user's activity is restricted to access of only those programs or directories in that user's respective access level. Likewise, a user may not obtain access to another level by means of another user's access. Any user who exceeds his/her respective level, assists another user to gain access to an otherwise inaccessible level, or allows another user to gain access to an otherwise inaccessible level will be held accountable for the violation of this policy. A user may not continue to enter an access level which was previously assigned to the user, but which has since been suspended or revoked.

No user may knowingly

- Use either Calhoun computer technology or personal technology to "break into" or "hack into" college or other computers and storage devices for the purpose of reading, copying, deleting, modifying or distributing data and/or information of others, or any other purpose;
- Give passwords, access codes or other security level access information to others;
- Share personal e-mail accounts.

**Internet Access:** Any employee or student access to the Internet through Calhoun's computer network is limited to the acceptable use as set out below. Likewise, any employee or student who accesses the Internet through Calhoun's computer network for an unacceptable use as defined above or causes an unacceptable result will be held accountable for the violation.

The use of the Internet must be in support of education, research, college-related service activities, or college administration and consistent with the mission of Calhoun Community College. Transmission of any material in violation of any federal or state regulation is prohibited. This includes, but is not limited to copyrighted material, threatening or obscene material, or material protected by trade secret. Any use of the Internet through Calhoun's computer network for political advertisement or political lobbying is also strictly prohibited.

Users of the Internet through Calhoun's computer network are expected to abide by the rules of network etiquette. Any swearing, vulgarities or other inappropriate language is prohibited. Users are also prohibited from revealing personal addresses or phone numbers of students or colleagues.

Users are hereby warned that electronic mail (e-mail) is not guaranteed to be private. People who operate the system do have access to all mail. Messages relating to or in support of illegal activities may be reported to the authorities.

**Acceptable Use:** It is acceptable to use Calhoun computer technology for purposes relating directly to education, educational research, college-related service activities, and administration of Calhoun.

Examples of acceptable use are

- Using the software/hardware only in the condition and settings provided by Calhoun. Users may not modify software settings to add or delete hardware components or modify software features, unless so instructed by appropriate college officials.

- Using the network for the purpose of instructional support. This may include class assignments, research, skill development, and/or the production of materials used in the educational process.

**Unacceptable Use:** It is unacceptable to use Calhoun computer technology for any illegal purpose or to interfere with or disrupt other users, services or equipment. Such unacceptable use includes, but is not limited to, the following:

- Engaging in activities to damage or disrupt computer, computer system, network information, data or a program by such acts as virus creation and propagation, wasting system resources, or overloading networks with excessive data.
- Engaging in activities for the purpose of promoting personal gain and/or profit or use of college technology for organizations other than Calhoun.
- Engaging in any activity which is in violation of the Code of Alabama (1975) §§36-25-1 through 36-25-30, as amended (the "State Ethics Law"), or which, in the opinion of the Calhoun administration, may be contrary to such law.
- Using any computer technology in a manner that violates patent protection or license agreements.
- Engaging in any activity that violates any and all copyright laws. Such activity may include utilizing Calhoun technology to copy and/or distribute copyrighted materials of any type that the user does not have a valid and legal right to copy.
- Engaging in any use that is illegal or results in the commission of any illegal activity.
- Using Calhoun computer technology to support or oppose any candidates or candidates for public office, or for any other political purpose. (Use of State property for political purposes is against Alabama law.)
- Transmitting messages of a romantic or sexual nature to any person or persons.
- Creating, displaying, transmitting or making accessible threatening, racist, sexist, offensive, annoying or harassing language and/or material.
- Knowingly accessing or transmitting information which contains obscene or indecent material as defined by law.
- Knowingly performing an act; which will interfere with the normal operation or use of computers, terminals, peripherals, or networks.
- Creating copies, or taking into the user's personal possession copies of Calhoun owned software and/or hardware technology such as computers, components, disks, or peripherals.
- Using another person's computer account or allowing someone else to use your account (e-mail, secure systems, etc.).
- Sharing personal e-mail accounts.
- Masking the identity of an account or machine or in any manner misrepresenting your identity in e-mail or other electronic communication.
- Communicating any information concerning password, identifying code, personal identification number or other confidential information without the permission of its owner.
- Creating, modifying, executing or re-transmitting any computer program or instructions intended to obscure the true identity of the sender of electronic mail or electronic messages, collectively referred

to as “Messages,” including, but not limited to, forgery of Messages and/or alteration of system and/or user data used to identify the sender of Messages.

- Attempting to gain unauthorized access to any information facility, whether successful or not. This includes running programs that attempt to calculate or guess passwords, or that are designed and crafted to trick other users into disclosing their passwords, and any attempts to circumvent data protection schemes or uncover security loopholes. It also includes electronic eavesdropping or communication facilities.

**Access is a Privilege, Not a Right:** Calhoun reserves the right to deny the privilege of the use of any or all types of computer technology to individuals who violate this Acceptable Use Policy. Users may also be held accountable for violations of Federal and/or Alabama Laws (i.e., Computer-Related Crime, etc.). Violations of this policy may result in the termination or suspension of employment, suspension of computing privileges, disciplinary review, any other forms of employee or student discipline, and/or financial restitution to Calhoun for any damages and costs related to inappropriate or unacceptable use, and/or criminal or civil legal action. Calhoun reserves the right to monitor, modify and/or delete any material posted on the Student Announcements and/or student e-mail account that is deemed to be inappropriate, in poor taste and/or not in keeping with the educational values of the College. Calhoun reserves the right to modify or clarify this policy at any time.

**Computer Crimes:** The Alabama Computer Crime Act, codified at Code of Alabama (1975) §§1 3A-8-101 - 13A-8-103, makes it a crime for a person to damage, or without authorization to modify computer equipment, computer networks, and computer programs and supplies or without authorization to access, examine, or use computer data and programs, and provides for punishment up to a Class B Felony (imprisonment for 2-20 years and/or a fine up to \$10,000 or double the damage or loss to the victim). Federal law also makes it a crime, without authorization, to access computers or computer networks devoted in part to Federal purposes. Any violation of such State or Federal laws respecting computers shall also constitute a violation of the Calhoun Computer Technology Acceptable Use Policy. Furthermore, this policy prohibits various actions (described above) which may or may not constitute a crime.

## STUDENT COMPLAINT PROCESS

### Informal Student Complaint Process

Calhoun Community College has a variety of procedures for dealing with student-related issues, including grade appeals, academic dishonesty violations, student discipline, harassment complaints, and Student Grievance procedures. One area not generally covered by other procedures concerns informal student complaints about faculty, staff or student conduct. The College respects the academic freedom of the faculty and will not interfere with the exercise of appropriate discretion concerning the content or style of teaching activities. *Indeed, academic freedom is and should be of paramount importance.* At the same time, the College recognizes its responsibility to provide students with a procedure for addressing complaints about faculty/staff treatment of students that are not covered by other procedures.

Wherever possible, complaints at Calhoun Community College are handled in an informal manner. Administrators, faculty, and staff maintain an “open-

door” policy to discuss issues of concern for all students. Faculty and staff serve as a resource for individuals seeking assistance in resolving matters within the College community. Students are encouraged to first attempt to resolve complaints with the faculty or staff person. If unresolved, students should next speak to the departmental chairperson or supervisor of the faculty or staff member in an effort to resolve the matter. If still unresolved, the student should lodge their complaint with the Vice President for Academic Affairs. Students may also seek the assistance of the campus Student Advocate Office to facilitate an informal resolution. The chart on the next page details the initial area for assistance referral and subsequent contact areas. If students have any questions about the applicable area for assistance, they should consult with the chief student affairs officer who will advise the student if some other procedure is applicable to the type of complaint they are seeking to resolve.

### INFORMAL COMPLAINT REFERRAL CHART

ISSUE	1ST RESPONSE – LEVEL I	LEVEL II
Academic Instructor Concerns	Instructor	Faculty Chair/Division Dean
Academic Probation/Suspension	Records	Registrar/Director of Financial Services
Admissions Application Process	Admissions	Director of Admissions/Registrar
Assessment/Testing Center	Advising Center Staff/ Testing Center Staff	Director of Recruitment, Retention & Student Success/ Director Testing Ctr.
Academic Advising	Advising Staff/Faculty Advisor	Director of Recruitment, Retention & Student Success/ Faculty Chair
Blackboard Technical Assistance	IT Helpline	Instructor/Coordinator of Distance Learning
Bookstore	Bookstore Manager	V.P. for Business Operations
Student Guided Campus Tours	Warhawk Sponsor	Assistant to the President for PR
Staff Guided Campus Tours	Advising Staff	Director of Recruitment, Retention and Student Success
Discipline outside the classroom	Campus Police/Staff Member	Dean of Student Services
Grade Appeals	Instructor	Division Dean/V.P. for Academic Affairs
Financial Aid Issues	Financial Aid Staff	Director of Financial Services
Veteran Benefits	V.A. Coordinator	Director of Financial Services
Tutor Support	Subject Area Lab Assistant	Dean for Subject Area
Students with Disabilities	Disabilities Office Staff	504 Compliance Officer
Student Orientation	Orientation Instructor	Director of Recruitment, Retention and Student Success
Transcripts	Records Office Staff	Director of Admissions and College Registrar
Refund Requests	Business Office Staff	V.P. for Business Operations
Parking Tickets	Campus Police	SGA Parking Appeals Committee
Police	Campus Police Staff	Campus Chief of Police/V.P. Business Operations
Workforce Faculty	Workforce Faculty	Division Dean

### Formal Student Complaint Process

If an informal conference regarding a complaint fails to reach the outcome requested by the student, the student may initiate the formal process described below by timely filing a written complaint with the department chairperson or staff supervisor, or if the chairperson or supervisor is the subject of the complaint, with the person designated by the Vice President for Academic Affairs. (This person will be referred to as the “Fact Finder.”)

- The complaint shall be filed within 30 calendar days of the alleged conduct unless there is good cause shown for delay, including but not limited to delay caused by an attempt at informal resolution. The complaint shall be as specific as possible in describing the conduct being complained about.
- The Fact Finder shall promptly send a copy to the faculty member about whom the complaint is made, along with a letter stating that the filing of the complaint does not imply that any wrong doing has occurred and that a faculty member must not retaliate in any way against a student for having made a complaint.

3. The Fact Finder shall meet with the complaining student and faculty or staff member, either separately or together, to discuss the complaint and to try to resolve it. If a resolution is not possible and there are factual issues in dispute, an investigation shall be conducted.
4. The Fact Finder shall separately interview the complaining student, the faculty member and other persons with relevant knowledge and information and shall also consult with the chief student services officer and, if appropriate, the College Student Advocate. The Fact Finder shall not reveal the identity of the complaining student and the faculty member to others except to the extent necessary to conduct the investigation. If the Fact Finder believes it would be helpful, he or she may meet again with the student and faculty member after completing the investigation in an effort to resolve the matter.

## STUDENT GRIEVANCE PROCEDURES INVOLVING DISCRIMINATION, SEXUAL HARASSMENT, AND RIGHTS OF THE DISABLED

### INTRODUCTION

Calhoun Community College promotes the exchange of ideas among all members of the college community including students, faculty, staff, and administration. An environment conducive to open exchange of ideas is essential to intellectual growth and positive change. However, the College recognizes that, at times, people may have differences which they are unable or unwilling to resolve themselves, and that employees and students must feel confident that the appropriate authorities will promptly address a valid complaint or grievance concerning the College.

Provided, however, that if a complaint is in the form of an alleged violation of Title IX of the Education Amendments of 1972, the student shall file the complaint with the Dean of Student Services using the grievance procedure adopted by the State Board of Education for Title IX grievances. That procedure can be found at Alabama Community College System Policy No. 620.0. In the event that there is a hearing on a Title IX grievance, the hearing procedure shall be the same as stated herein below.

Title IX provides that "No person in the United States shall on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance." If the student is uncertain as to whether his or her complaint would be covered by Title IX, the student shall meet with the Dean of Student Services to make that determination.

### ANTI-HARASSMENT POLICY

Calhoun Community College has a commitment to providing both employment and educational environments free of harassment or discrimination related to an individual's race, color, gender, religion, national origin, age, or disability. Not only is such harassment or discrimination a violation of the policies of the Alabama Community College System, it is an institutional policy that any practice or behavior that constitutes such harassment or discrimination shall not be tolerated on any Calhoun campus or site, or in any division or department, by any employee, student, agent, or non-employee on any College property or while engaged in any College-sponsored activity. It shall also be a violation of this policy for a person to engage in such harassment or discriminatory practice or behavior through

the use of any College-owned or College controlled communication process, system or device.

For these purposes, the term "harassment" includes, but is not necessarily limited to:

Language, behavior, or other activity that has the intent or effect of unduly demeaning, embarrassing, or discomforting any person, or creating an environment that is unduly demeaning, embarrassing, or discomforting to any person or persons of reasonable sensitivity.

Harassment of employees or students by persons who are not employees or students shall also be a violation of this policy. Any employee or student who becomes aware of any such harassment shall report the incident(s) to the appropriate institution official.

Such discrimination may or may not be in the form of harassment, per se. However, as with incidents of harassment, any employee or student who becomes aware of the unduly adverse treatment of any person on the basis of that person's race, color, gender, religion, national origin, age, disability, or any other impermissible factor, shall report such situation to an appropriate College official.

Sexual harassment is a form of misconduct that is considered under the law to be both harassment and discrimination which is illegal under Title VII of the Civil Rights Act of 1964 for employees and under Title IX of the Education Amendments of 1972 for students. Sexual harassment does not refer to such innocent conduct as occasional compliments on another's appearance; it refers to behavior with sexual connotations that would have the effect of interfering with, or the tendency to interfere with, the work, educational, or social environment of its victims. Sexual harassment may involve the behavior of a person of either sex toward a person of the opposite or the same sex, and occurs when it consists of unwelcome sexual advances, unwelcome requests for sexual favors, or other unwelcome verbal or physical conduct of a sexual nature, when

1. Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or educational opportunities;
2. Submission to or rejection of such conduct is used as the basis for employment or academic decisions affecting that individual;
3. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance, or creates an intimidating, hostile, or offensive work or educational environment.

Sexual harassment may include, but is not be limited to, any of the following:

1. Physical assault, or attempted physical assault, of a sexual nature.
2. Direct propositions of a sexual nature;
3. Subtle pressure for sexual activity;
4. Threats or coercion used for the purpose of soliciting sexual favors;
5. Displaying pictures or other objects which are sexual in nature that would have the tendency to create a hostile or offensive environment and serve no legitimate business purpose;
6. Repeated conduct that has the effect of causing, or intent to cause, discomfort or humiliation, or both, that includes comments of a sexual nature or sexually explicit statements, questions, jokes, or anecdotes;
7. Repeated conduct that has the effect of causing, or the intent to cause, discomfort or humiliation in the form of (i) touching, patting, pinching,

hugging, or brushing against another's body; (ii) comments of a sexual nature about another's clothing or appearance; or (iii) remarks about sexual activity or prior sexual experiences.

Any student who is the victim, or intended victim, of sexual harassment should report the matter to the office of the Dean of Student Services as soon as possible after the situation occurs. If the matter is determined by the Dean to involve sexual harassment, it shall also be reported to the President of the College and to the Vice Chancellor for Legal and Human Resources, who shall also be kept informed of the progress and results of the investigation of the complaint. Any subsequent adverse treatment incurred by the reporting party that appears to be retaliation of, or related to, the report of sexual harassment should also be brought to the attention of the office of the Dean of Student Services.

With further regard to relationships of a physical nature, Calhoun Community College employees determine the ethical and moral tone for this College through both their personal conduct and their job performance. Therefore, each employee must be dedicated to the ideals of honor and integrity in all public and personal relationships. Relationships between College personnel of different ranks which involve partiality, preferential treatment, or other improper use of position shall not be tolerated. Consensual amorous relationships that might be appropriate in other circumstances are inappropriate when they occur between an instructor and a student for whom he or she has responsibility, or between any supervisor and an employee where preferential treatment results. Furthermore, such relationships have the potential of undermining the atmosphere of trust on which the educational process depends. Implicit in the concept of professionalism is the recognition by those in positions of authority that in their relationships with students or subordinate employees there is always an element of power. Therefore, it is incumbent on those with authority not to abuse the power with which they are entrusted.

**In order to accommodate the resolution of such situations, Calhoun Community College offers the following grievance procedures as the appropriate course of action for settling disputes and resolving problems.**

#### A. INITIAL STEPS

Any student of Calhoun Community College who has a grievance against another student or a member of the Calhoun faculty, staff, or administration concerning any form of discrimination (Title VI, Civil Rights Act of 1964), sexual harassment (Title IX of the Educational Amendments of 1972), or violation of the rights of the disabled (Sec. 504 of the Rehabilitation Act of 1973) should first attempt to resolve his/her situation with the individual involved. However, a student who believes herself or himself to have been subjected to sexual harassment is not required to first speak to or attempt to resolve the situation with the perpetrator of sexual harassment before filing a complaint. If for some reason resolution of the grievance is not possible, the student should make his/her grievance known to the immediate superior of the individual against whom the student has a grievance, and/or to the Dean of Student Services in order to seek an informal resolution to the problem. If, after the discussion between the student and the respective College official or representative it is determined that the complaint is valid, the College official or representative will take appropriate action to resolve the complaint using

a formal "plan of resolution."

If the student's complaint requires a formal "plan of resolution," a written report must be submitted to the Dean of Student Services. The report shall be submitted by the College official or representative within ten business days of the initial complaint and shall detail the complaint and the plan to resolve the complaint. If a student's complaint cannot be resolved in the manner described above, an unresolved complaint shall be termed a "grievance."

#### B. INTERIM RESOLUTION

If the Dean of Student Services should determine that the grievance is of a nature that there should be imposed an interim resolution pending the outcome of the grievance procedure, the Dean of Student Services shall recommend such an interim resolution to the President or designee. The President or designee shall have the discretion to impose or not impose an interim resolution.

#### C. FORMAL GRIEVANCE PROCESS

A student who submits a complaint to the appropriate College official or representative in the manner described above and who is not informed of a satisfactory resolution or plan of resolution within ten business days after the complaint's initial submission shall have the right to file, within ten business days, a formal grievance statement. The written grievance statement shall be filed using Grievance Form A, which will be provided by the Grievance Officer and shall include the following information:

1. Date the original complaint was reported;
2. Name of the person to whom the original complaint was reported;
3. Facts of the complaint; and,
4. Action taken, if any, by the receiving official to resolve the complaint.

The grievance statement shall also contain any other information relevant to the grievance the Grievant wants to be considered by the Dean of Student Services. Any grievance must be filed within 45 calendar days of the occurrence of the alleged discriminatory act or the date of which the Grievant became aware that the discriminatory act took place.

The Dean of Student Services will notify the student or a member of the Calhoun faculty, staff or administration of the charge(s) against him/her within five business days of receiving the formal grievance statement. If after a reasonable attempt to notify the student, faculty member, staff member, or administrator of the charges against him/her, the Dean of Student Services is unable to do so, then the Dean of Student Services may suspend the student, or the President of the College or his/her designee may suspend with pay the faculty member, staff member, or administrator until a hearing is held and decision rendered.

The College shall have thirty (30) calendar days from the date of receipt by the Dean of Student Services of the grievance to conduct an investigation of the allegation(s), hold a hearing on the grievance, and submit a written report to the Grievant of the findings arising from the hearing. Grievance Form A shall be used to report both the grievance and the hearing findings.

#### D. INVESTIGATION PROCEDURE

The Dean of Student Services shall have the right to conduct such preliminary hearing(s) as the Dean of Student Services or designee shall deem necessary to complete his/her investigation. The Dean for Student Services shall conduct a factual investigation of the grievance allegations and shall research each applicable statute, regulation, and/or policy, if any. The Dean of Student Services shall determine, after completion of the investigation, whether or not there is substantial evidence to support the grievance. The factual findings in the investigation and the conclusion of the Dean of Student Services (Grievance Officer) shall be stated in a preliminary written report which shall be submitted to the Grievant and to the party or parties against whom the complaint was made and shall be made a part of the hearing record, if a hearing is subsequently conducted. Each of the parties shall have the opportunity to file written objections to any of the factual findings and, if there is a hearing, to make their objections part of the hearing record. If the Grievance Officer finds the grievance is supported by substantial evidence, he or she shall make a recommendation in the report as to how the grievance should be resolved. Upon the receipt of the Grievance Officer's preliminary report, the Grievant and the Respondent shall have three (3) business days to notify the Grievance Officer of the respective party's request for a hearing. The Dean of Student Services may, nevertheless, at his/her discretion, schedule a hearing on the grievance if to do so would be in the best interest of the College. In the event that no hearing is to be conducted, the Grievance Officer's report shall be deemed a final report and shall be filed with the President, with a copy to be provided to the Grievant.

#### **E. HEARING PROCEDURE**

In the event that the Dean of Student Services schedules a hearing, the Vice President or designee will appoint a qualified five-person committee. The Dean of Student Services shall serve as the nonvoting chairperson. A quorum shall consist of four members of the committee and the chairperson. Unless the President or Vice President determines otherwise, or both parties agree in writing for the hearing to be public, the hearing shall not be open to the public.

At the hearing, the Grievant and the Respondent(s) shall be read the grievance statement. After the grievance is read into the record, the Grievant shall have the opportunity to present such oral testimony and offer such other supporting evidence as he/she shall deem appropriate to his/her claim. Each Respondent shall then be given the opportunity to present such testimony and offer such other evidence as he/she deems appropriate to the Respondent's defense against the grievance. In the event that the College, or the administration of the College at large, is the party against whom the grievance is filed, the President shall designate a representative to appear at the hearing on behalf of the College.

Any party to a grievance hearing shall have the right to retain, at the respective party's own cost, the assistance of legal counsel or other personal representative. However, the respective attorney or personal representative, if any, shall act in an advisory role only and shall not be allowed to address the hearing body or question any witness. In the event that the College or its administration at large is the Respondent, the College representative shall not be an attorney or use an attorney unless the Grievant is also permitted to be assisted by an attorney or other personal representative.

A student does not forfeit any of his/her constitutional rights upon his/her admission into Calhoun Community College, nor does a faculty member, staff member, or administrator forfeit his/her constitutional rights upon employment with Calhoun Community College. The Committee shall not have the authority to compel any

witness to testify. However, insofar as it is not contrary to law, the Committee may take into account the refusal of a witness to testify when deliberating the evidence. With regard to a College employee, the President shall have the authority to direct the employee to testify at a hearing if, in the discretion of the President, such testimony could be material to an accurate determination of the facts in the case.

The hearing shall be recorded by either a court reporter or on audio or video tape or by other electronic recording medium. In addition, all items offered into evidence by the parties, whether admitted into evidence or not, shall be marked and preserved as part of the hearing record.

#### **F. REPORT OF FINDINGS AND CONCLUSIONS**

Within five (5) working days following the hearing, there shall be a written report from the chairperson on the findings of the hearing committee (with a copy forwarded to the President, the Grievant, and each Respondent). The report shall contain at least the following:

1. Date and place of the hearing;
2. The name of each member of the hearing committee;
3. A list of all witnesses for all parties to the grievance;
4. Findings of facts relevant to the grievance;
5. Conclusions of law, regulations, or policy relevant to the grievance;
6. Recommendations(s) arising from the grievance and the hearing thereon.

#### **G. RESOLUTION OF GRIEVANCE**

In the event of a finding by the Committee that the grievance was supported, in whole or in part, by the evidence presented, the Dean of Student Services shall meet with the Grievant, the Respondent(s) and the appropriate College representative(s) and attempt to bring about a reasonable agreed-upon resolution of the grievance. If there is no mutual resolution, the President shall impose a resolution of the grievance which shall be final and binding.

#### **H. APPEAL PROCEDURE**

The President of Calhoun Community College shall be the appeal authority in upholding, rejecting, or modifying the recommendations of the Grievance Committee. The President shall not be bound in any manner by the recommendation(s) of the hearing committee, but shall take it (them) into consideration in imposing his/her decision. The charged student, faculty member, staff member, or administrator may file a written request with the Vice President for Academic Affairs of the College and Dean of Student Services requesting that the President of the College review the decision of the Grievance Committee. The written request must be filed within 15 calendar days following the party's receipt of the hearing report. If the appeal is not filed by the close of business on the fifteenth day following the party's receipt of the report, the party's opportunity to appeal shall have been waived. If the appeal does not contain clear and specific objections to the hearing report, it shall be denied by the President. The President of the College shall issue his/her opinion to accept, reject, or modify the decision of the Grievance Committee within 15 calendar days of the initiation of the appeal process. If the decision of the Grievance Committee does not satisfy the complainant and should the grievance allege discrimination (Title VI), sexual harassment (Title IX), or violation of the rights of the handicapped (Sec. 504), the complainant may file a written grievance with:

1. The Alabama Community College System pursuant to Alabama Community College System policies and procedures, with respect to Title

IX violations;

a) If, after exhausting all available institutional processes, a student's complaint remains unresolved, the student may appeal to the Alabama Community College System using the System's official Student Complaint Form available at (calhoun.edu/ACCSComplaint) or at the ACCS website (www.accs.cc). Students may submit completed complaint forms by printing the form, signing it, and then either (1) scanning it and e-mailing it to complaints@accs.edu or (2) mailing it to:

Alabama Community College System  
Attention: Office of the Vice Chancellor  
for Instructional and Student Services  
P.O. Box 302130

Montgomery, AL 36130-2130

b) The Vice Chancellor for Instructional and Student Services or an appropriate administrator designated by the Vice Chancellor will investigate the complaint within 30 days of receipt.

c) The institution which is the subject of complaint has 30 days to provide a written response to questions and/or concerns raised during the investigation. Such response may or may not contain a resolution.

d) The Vice Chancellor or designated administrator will adjudicate the matter and write a report or letter to the institution and student detailing corrective action, if any is necessary, or stating that the school has no violation of policies.

e) If corrective action is needed the institution will have 30 days to comply or develop a plan to comply with the corrective action.

f) The System Office will monitor the institution's compliance to ensure the completion of any required corrective action.

2. The regional office of the Office of Civil Rights of the U.S. Department of Education within 180 days of the discriminatory act;
3. The Equal Employment Opportunity Commission within 180 days of the discriminatory act.

## EXCEPTION

When a complainant or grievant complains of, asserts the existence of, or indicates the possibility of sexual harassment violation of law, Calhoun Community College policy, or standards of appropriate conduct, the President may, in his/her discretion, determine that the matter will not be resolved through procedures set forth above, but will be reasonably, appropriately, and promptly investigated and resolved by the College pursuant to such process as the President determines in accordance with the College's objective of maintaining a work and educational environment free from sexual harassment.

## Violence Against Women Campus SaVE Act

In March of 2013, the campus sexual violence elimination act was passed by Congress as part of the reauthorization of the Violence Against Women Act (Campus SaVE Act). The new law is aimed at increasing transparency by expanding the types of sexual violence incidents that must be disclosed in the annual security report (ASR) submitted by colleges and universities. The new law represents a regulatory emphasis on specific categories of sexual abuse suffered by members of the college community.

## Policy Statement

Calhoun Community College is committed to providing a safe learning environment that allows individuals to fully maximize their educational potential. Therefore, any form of domestic violence, dating violence, sexual assault, or stalking as defined under Alabama State Law, is strictly prohibited. Furthermore, the use of intimidating or abusive behavior that is directed at bullying (menacing) individuals with the intent of victimizing them is prohibited. The College will provide preventive educational programs that are designed to promote the awareness of rape, acquaintance rape, domestic violence, dating violence, sexual assault, and stalking.

## Bystander Intervention

Effective intervention is the community responsibility of every person. Individuals are encouraged to speak out against attitudes that promote sexual violence and become more supportive of survivors. There are five stages to effective bystander intervention: 1) notice the problem, 2) understand that the problem demands action, 3) feel responsibility to act, 4) choose what form of assistance to provide, and 5) respond.

## Steps for Reporting Offenses

Any sexual offense crime committed on campus should be reported directly to Campus Police by dialing 256-306-2575 or 2575 from any extension on the Decatur campus, and 256-890-4711 or 4711 from any extension on the Huntsville campus. Any person reporting a sexual offense crime should take immediate steps to preserve the evidence. All incidents will be investigated and a report will be filed by the investigating officer; victims will be notified of their options to notify law enforcement. In the event of a sexual crime, assistance is available through the Student Services Office for making referrals to counseling services.

## Campus Sexual Assault Victim Bill of Rights

- Victims shall be notified of their options to notify law enforcement when reporting a crime of domestic violence, dating violence, or stalking
- Reasonable changes to academic and campus work situation
- Referrals to counseling, assistance in notifying law enforcement
- Same opportunity as accused to have others present at disciplinary hearing
- Unconditionally notified of outcome of hearing, sanctions, and terms of sanctions in place
- Speak (or choose not to speak) to anyone regarding the outcome
- Name and identity information kept confidential (FERPA)

## REFERENCE

**Title VI of the Civil Rights Act of 1964**, "No person in the United States shall on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance."

**Title IX of the Educational Amendments of 1972**, "No person in the United States shall on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance."

**Section 504 of the Rehabilitation Act of 1973** as amended in 1974, "No

otherwise qualified handicapped individual in the United States, as defined in Section 706 (6) of this title, shall, solely by reason of his handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance."

**Title IX Section 304** of the Campus Sexual Violence Elimination Act (Campus SaVE Act), requires institutions of postsecondary education eligible to participate in federal student aid programs to adopt and disclose in their Annual Security Report a summary of a policy regarding sexual assault (an existing requirement of the Clery Act) and other intimate partner violence defined to include stalking, dating violence, sexual violence, or domestic violence.

*It is the official policy of the Alabama State Department of Education, including Postsecondary institutions under the control of the State Board of Education, that no person in Alabama shall, on the grounds of race, color, disability, sex, religion, creed, national origin, or age, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program, activity, or employment.*

## STUDENT SERVICES

### PHILOSOPHY

The belief of each member of the Student Services staff at Calhoun Community College is that every student should have the opportunity to reach his or her maximum potential. Dedicated to this belief are the functions which comprise Student Services: Admissions and Records, Advising, Career Services, Freshman Orientation, Judicial Services, Recruitment, Retention Services, Service Learning, Services for Persons with Disabilities, Student Success Center, Student Support Services, Student Financial Aid, Student Activities, Testing Services, and Student Success Center

The message from the Student Services Division to students and area residents is, "Calhoun cares about you." Included below is information related to programs and services not already described in other sections of this handbook.

### ACADEMIC TESTING AND ASSESSMENT CENTER

Calhoun Community College Testing and Assessment Center is open Monday-Thursday. For more information and hours of availability, please contact 256-306-2520. The Assessment Center provides WorkKeys assessments and assists academic faculty in providing academic credit testing. Student testing is available on a first come-first served basis. WorkKeys assessments are by appointment only.

### ADVISING CENTERS

Academic advising for students at Calhoun Community College occurs in the Advising Centers. Also available in the Advising Centers is access to the Alabama Articulation Program (also called STARS - Statewide Transfer and Articulation Reporting System). STARS is a computerized articulation and transfer planning system designed to inform students who attend Alabama community colleges about degree requirements, course equivalents, and other transfer information pertaining to specific majors at each state funded four-year institution and ensures transfer of all two-year college credits if a pre-described course of study is followed. STARS is an efficient and effective way of providing students, counselors, advisors, and educators with accurate

information upon which transfer decisions can be made. Students who are interested in receiving STARS information should log on to the STARS home page at <http://stars.troy.edu>. Students who do not have internet access are welcome to visit one of the Advising Centers.

### CAREER SERVICES

The Career Services Center provides various services free of charge for Calhoun students and alumni. Choosing a college major or career goal can be a daunting task; therefore, current or returning students are encouraged to take advantage of the free FOCUS 2 career assessment to help determine their best individual pathway. This assessment can be found at [www.calhoun.edu/focus](http://www.calhoun.edu/focus). To ensure Calhoun students are exceptionally prepared for the workforce, the Career Services Center offers resume and interview assistance for upcoming graduates or alumni. Events such as student workshops and career fairs are held throughout the year and are advertised through the website and campus media. Additional resources can be found on the career services website, and students are welcome to make an appointment to speak with a career services representative by emailing [careerservices@calhoun.edu](mailto:careerservices@calhoun.edu).

### EMERGENCIES

In case of medical emergencies, the College's Security/Police Department arrange for the student, at his/her expense, to be transported by ambulance to a nearby emergency room for treatment.

### FINANCIAL AID

Financial aid is available at Calhoun Community College in a variety of forms. Students needing assistance with college expenses should communicate with personnel in the Office of Student Financial Services at the following address:

Office of Student Financial Services  
Calhoun Community College  
P.O. Box 2216  
Decatur, AL 35609-2216

FINANCIAL AID PROGRAMS AVAILABLE at Calhoun Community College include the following:

1. Alabama Student Assistance Grants
2. Federal Work-Study
3. Federal Pell Grants
4. Federal Direct Student Loan
5. Dorothy B. Johnson Loan Fund
6. Federal Supplemental Educational Opportunity Grants
7. Veterans', Service Members', and their Dependents' Benefits
8. Workforce Investment Act (WIA)
9. Scholarships
  - a. Academic
  - b. Calhoun Foundation
  - c. Performing Arts
  - d. Senior Adult Program
  - e. Scholarships for Disadvantaged Nursing Students (SDS)

### GRADUATION

It's so easy to apply for graduation at Calhoun. Even if you plan on transferring to pursue another degree, receiving your Associate's degree from Calhoun Community College is valuable and a great start to your academic career.

To apply for graduation, you simply complete the graduation application and survey, which can be found at our website, [www.calhoun.edu](http://www.calhoun.edu), under Admissions and "other forms." You can also come into the Admissions and Records Office on either campus and we can help you fill out the forms. There is a \$20 fee for a copy of your diploma.

## INTRAMURAL SPORTS

An Intramural Sports program is offered through the Physical Education Department during the fall and spring semesters. Students currently enrolled in the College are eligible to participate. Contact the Physical Education Department for more information.

## MUSE

*Muse*, an annual journal that highlights student poetry, prose, art, photography, and student opinions, is a project of the Language Arts Department. The chairperson of the Humanities Division appoints a committee to oversee the product. Funding for *Muse* is provided through the Language Arts budget.

## MATHEMATICS TUTORING AND LEARNING CENTER – DECATUR CAMPUS

The Mathematics Tutoring and Learning Center is located on the first floor of the Science and Mathematics Building, Room 120. The Math TLC will service all levels of Mathematics from developmental to upper level. The purpose of the lab is to provide free tutoring and to assist Mathematics students with class, lab, and homework assignments. The lab has approximately 48 computers for Mathematics students to use and is staffed by a full-time lab coordinator, lab assistant, and several part-time lab assistants. The hours of the lab are 8:00 a.m. to 8:00 p.m. Monday through Thursday and 8:00 a.m. to 11:45 a.m. on Friday. For more information, please call the Math TLC at 256-260-2445 or the Mathematics Division Office at 256-306-2739, or visit our web site at [www.calhoun.edu/mathscience/](http://www.calhoun.edu/mathscience/).

## MATHEMATICS LAB – HUNTSVILLE CAMPUS

The Mathematics Lab is located on the main floor in room 133. The purpose of the Mathematics Lab is to provide free tutoring and to assist Mathematics students with class, lab, and homework assignments. The lab has approximately 34 computers for Mathematics students to use and is staffed by a Coordinator and several part-time lab assistants. The hours of the lab may vary from semester to semester. For more information, please call 256-890-4733 or the Mathematics Division Office at 256-306-2739, or visit our web site at [www.calhoun.edu/mathscience/](http://www.calhoun.edu/mathscience/).

## SERVICE LEARNING

The Office of Student Services is responsible for the administration and implementation of Calhoun's Service Learning Program. The College has established partnerships with many community agencies for the purpose of placing Calhoun students in service learning project assignments on a semester-by-semester basis. A listing of these agency agreements is available on the website. The Dean of Student Services serves as the liaison between the College and all community agencies. The Dean is the primary person responsible for developing and maintaining agency agreements, along with faculty participation in the Service Learning Program. Several courses now offer service learning as an option.

Should you have questions about the program, please contact the Dean of Student Services at (256) 256-306-2743.

## SERVICES FOR PERSONS WITH DISABILITIES

Calhoun Community College provides environmental and programmatic access for persons with documented disabilities as defined in Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 (as amended). Any student who requires information or needs academic adjustments or accommodations should contact a staff member.

## Special Populations

Calhoun Community College provides services to coordinate the needs, problems, and/or concerns of minority students, including those who are Black, Hispanic, international, displaced homemakers, single parents, or students seeking gender-specific programs, or others desiring special attention. Any student who desires information or assistance should contact a staff member.

## Special Populations/ADA Staff Members:

Dr. Patricia Wilson, Dean of Student Services  
Title IX/Section 504 Compliance Officer  
Decatur Campus, Chasteen Student Center, Room 205  
(256) 306-2743  
[patricia.wilson@calhoun.edu](mailto:patricia.wilson@calhoun.edu)

Ms. Dawn Hale, Executive Secretary/ADA Advocate  
Decatur Campus, Chasteen Student Center, Room 220  
(256) 306-2630  
[dawn.hale@calhoun.edu](mailto:dawn.hale@calhoun.edu)

Mr. David Johnson, Counselor & ADA Liaison  
Huntsville Campus  
(256) 890-4720  
[david.johnson@calhoun.edu](mailto:david.johnson@calhoun.edu)

## Hours of operation are:

HUNTSVILLE CAMPUS  
2<sup>nd</sup> and 3<sup>rd</sup> Wednesday and Thursday of each month  
Decatur staff on Huntsville campus  
10:00 am – 4:30 pm  
Appointments outside regular schedule can be arranged in advance.

DECATUR CAMPUS  
Monday-Thursday (7:45 am - 5:15 pm)  
Friday (7:45 - 11:45 am)  
Appointments outside regular schedule can be arranged in advance.

## STUDENT ADVOCATE

The Student Advocate Office was created to help students and potential students solve college-related problems by providing individual attention to each issue. It is important that these problems be handled in a direct, expeditious, and friendly manner. If a student or potential student has tried without success to resolve a

problem on campus, he or she should contact the Student Advocate Office.

The Student Advocate Office is open the following dates/times:

Decatur campus: Monday – Thursday 7:45 a.m. until 5:15 p.m.  
and Friday 7:45 a.m. until 11:45 a.m.

Huntsville campus: Every first Monday and second Tuesday of each month,  
8:30 a.m. until 4:30 p.m.

For more information or to schedule a meeting, stop by the office located on the first floor (room 107) of the Chasteen Student Center, Decatur campus, or room 313 at the Huntsville campus. You may also call 256-306-2870 or e-mail the office at [stadvocate@calhoun.edu](mailto:stadvocate@calhoun.edu).

### **STUDENT SUCCESS CENTER**

The Student Success Center (SSC) is a comprehensive one-stop shop for academic support services on campus. These include, but are not limited to: tutoring, academic coaching, workshops on topics related to academic skills and behaviors, and college success strategies courses. All SSC's programs and services are free to all students at Calhoun Community College.

The SSC is located on the 2<sup>nd</sup> floor of Chasteen Student Center.

### **WELLNESS CENTER**

The Wellness Center offers a variety of cardiovascular machines: computerized treadmills, stairmasters, stationary bicycles, NordicTrack machines, and Reebok BodyTrec elliptical machines. The center also offers a variety of strength training equipment: Nautilus equipment, Universal weight machines, and free weights. Full dressing rooms and shower facilities are available. Students have access to the Wellness Center by enrolling in a variety of Physical Education courses:

Fundamentals of Fitness, General Conditioning, and Personal Fitness. If not enrolled in a physical education class, students may purchase a Wellness Center membership for \$25 per semester. This fee can be paid in the Calhoun Business Office. To verify membership, please bring payment receipt to the Wellness Center. Hours of operation vary each semester. Contact the Physical Education Department for additional information.

## **CAMPUS/SITE INFORMATION**

### **DECATUR CAMPUS**

Calhoun's Decatur campus offers classes from 8:00 a.m. until 9:45 p.m., Monday through Thursday, and limited classes 8:00 a.m. - 11:45 a.m. Friday. Most student support offices are open from 7:45 a.m. until 6:00 p.m., Monday through Thursday, and 7:45 a.m. - 11:45 a.m. Friday. The Decatur campus includes classroom buildings; Brewer Library; labs for technologies, sciences, and allied health; physical education facilities and the Wellness Center. Directions and information are available on the Calhoun website at [www.calhoun.edu](http://www.calhoun.edu).

Evening classes are available for students who prefer to attend classes in the late afternoon or evening. These working and motivated students are considered a vital part of Calhoun Community College. The evening program is governed by the same policies and procedures as day classes. Student services and academic requirements are also the same for all students at the college.

### **HUNTSVILLE CAMPUS**

For students who wish to take Calhoun classes in the Huntsville area, Calhoun offers courses each semester at its Huntsville campus located in Cummings Research Park at 102 Wynn Drive. The Huntsville campus provides day and evening classes in most general education subjects. Weekend classes are also offered on Fridays, Saturdays, and Sundays. Students wishing further information about classes available at the Huntsville campus should call (256) 256-890-4747. Huntsville offices are open Monday - Thursday, 7:45 a.m. - 9:45 p.m. and Friday, 8:00 - 11:45 a.m.

### **LIMESTONE CORRECTIONAL FACILITY**

Calhoun Community College offers certain technical/vocational programs for inmates at the Limestone Correctional Facility at Capshaw. Available only to the incarcerated who have appropriate educational credentials, programs include Carpentry, Design Drafting, Horticulture, Masonry, Upholstery, and Welding. Adult literacy and Adult Basic Education classes are offered, which can lead to passage of the GED test. For further information about the Limestone Correctional Facility programs, contact the Director for LCF Calhoun, (256) 216-2207.





# FACULTY STAFF & ADMINISTRATION



## COLLEGE ADMINISTRATION, FACULTY AND STAFF

- ABUDIAB, NIZAR.** Computer and Office Information Systems/Mathematics. B.S., M.S., McNeese State University.
- AGRAWAL, NICK.** CIS. B.S., Delaware State University; MBA, Alabama A&M University.
- AIKEN, JAYMICE.** Payroll Clerk. B.A., St. Leo University; A.S., Sumter Area Technical College.
- ALEXANDER, CHRISTOPHER.** Digital Media & Distance Learning Manager. B.S., ITT Technical Institute; M.S. University of Phoenix.
- ALFORD, RODNEY.** Mathematics. Interim Dean of Mathematics, Natural Science, and Pre-Engineering B.S., Auburn University; M.Ed., Alabama A&M University.
- ALLEN, NICOLE.** College and Career Advisor. A.S., Calhoun Community College; B.S., Athens State University.
- ANSARDI, DAVID.** Biology. Department Chair. B.S., Louisiana Tech University; Ph.D. University of Alabama in Birmingham.
- ATKINS, SHAUN.** Industrial Systems Technology. A.A.S., Wallace State Community College.
- ATTIPOE, SHERIKA.** Executive Secretary for Public Affairs, Community Relations & Special Events. A.S., Calhoun Community College; B.S., Athens State University.
- BAKER, GWEN.** Dual Enrollment Director. B. S. University of North Alabama.
- BARNETT, GENE.** History. Department Chair, Social Science. B.A., Lipscomb University; M.A., Auburn University.
- BASS, DONNA.** Workforce Solutions Project Manager. A.S. Calhoun Community College; B.S. Athens State University.
- BEASLEY III, JOHN.** Machine Tool Technology. B.S., Athens State University.
- BELL, RAY.** Speech. B.A., Sheffield Hallam University, U.K.; M.A., University of Sheffield, U.K.; P.G.C.E., Advanced Diploma Guidance and Counseling, University of Leeds, U.K.; Ph.D., Middle Tennessee State University.
- BERRY, DEREK.** Economics/Statistics. B.B.A., University of Mississippi; M.A., University of Alabama.
- BENTLEY, DAVID HARTWELL.** Database Analyst. B.S., The University of Alabama In Huntsville.
- BHOOSHANAN, PARVATHY.** English. B.A., S.N. College for Women, Kollam, Kerala, India; M.A., S.N. College for Women, Kollam, Kerala, India; University of Kerala, Trivandrum, India. Ph.D., University of Kerala.
- BIRDWELL, SHAWN.** Restricted Programs Accountant. B.S. Athens State University; A.A.S., Calhoun Community College.
- BIRGAN, LATRICA J.** Mathematics. B.S., Alabama A & M University; M.S., The University of Alabama at Birmingham; Ed.D., Northcentral University.
- BJURSTROM, KATEY.** Mathematics. A.A., Pearl River Community College; B.S., Mississippi College; Ph.D., University of Louisville.
- BLANKENSHIP, ANDREA.** Adult Education Teacher. M.E., Texas A&M; B.S., Tarleton State University
- BOWEN, BELINDA.** Help Desk Technician, Information Technologies. A.A.S., Calhoun Community College.
- BRADLEY, JESSICA.** Financial Aid Clerk, Financial Aid Services. B.S., Oakwood University.
- BRANON, MARK.** Director of Huntsville/Research Park Campus. A.A.S., Calhoun Community College; B. S., Athens State University; M.A., The University of Alabama.
- BRASHER, CHARLES.** Assistant Dean (p.t.), Huntsville Campus.
- BRAY, LENA.** Financial Aid Clerk. A.A.S., Snead State Community College; B.S., Jacksonville State University.
- BRAZIER, DOUG.** College and Career Advisor. B.S., Athens State University; M.A., University of West Alabama.
- BREWER, PHYLLIS.** Language and Literature. B.S., Athens State University; M.A., University of North Alabama.
- BRIGHT, KAREN.** Mathematics. A.S., Alabama Southern Community College; B.S., Auburn University; M.A.M., Auburn University.
- BRISCOE, GINA.** Nursing. B.S., University of Alabama in Huntsville; M.S., University of Alabama in Huntsville; DNP, Samford University.
- BROWN, JULIE.** Coordinator of Health Sciences Simulation Lab. A.S., Calhoun Community College; B.S.N., University of Alabama in Huntsville; M.S.N., University of North Alabama. DNP, The University of Alabama.
- BRYANT, JOHN DAVID.** Welding. A.A.S., Calhoun Community College; B.S., Athens State University.
- BULLOCK, NINA.** Drafting and Design Technology. A.A.T., J.F. Drake Technical College; B.E., Athens State University.
- BURCH, JANET.** Administrative Secretary, Mathematics. A.A.S., Calhoun Community College.
- BURKE, WAYMON E.** History. Social Science. A.S., Calhoun Community College; B.A., University of Montevallo; M.Ed., Alabama A&M University; Ph.D., The University of Alabama.
- BURNS, MICHAEL J.** Physical Education, Head Baseball Coach. B.S., University of North Alabama; M.A., University of North Alabama
- BURTON, DANA.** Speech Instructor. B.A., Queens University of Charlotte; M.A., The University of Alabama; J.D., The University of Alabama.
- BURTON, TAYLOR.** Graphic Designer. B.A., Queens University of Charlotte.
- BUSH, JERRY.** Workstation Administrator, Information Technologies. B.B.A., Athens State College; M.S., Florida Institute of Technology.
- BYARS, VANESSA.** Director of Purchasing and Accounts Payable. B.S., Athens State University; M.B.A., Columbia Southern University.
- BYRD, SHEILA.** English. B.S., Athens State University; M.A., The University of Alabama in Huntsville; D.A., Middle Tennessee State University.
- CALATRELLO, STEPHEN A.** Interim VP for Academic Affairs. English. A.A., El Camino College; B.A., University of California Los Angeles; M.A., California State Long Beach; Ph.D., Middle Tennessee State University.
- CANESTRARI, CAROLINE.** Career & College Advisor. B.S., University of North Alabama; M.A., The University of Alabama, Tuscaloosa.
- CANTRELL, JIMMY.** Music. B.S., Athens State University; M.A., Ed.S., University of North Alabama.
- CARTER, AMANDA.** Cashier. B.C.R., University of Mississippi.
- CARTER, BRIAN.** Painter.
- CARTER, SHARON.** Student Loan Clerk. A.S., Calhoun Community College; B.S., Athens State University; M.S., Capella University.
- CAUSEY, BRUCE.** Director of Facilities, Maintenance and Safety. B.A., Stetson University; M.R.E., Southern Baptist Theological Seminary.
- CHAMBERS, KEMBA.** Dean of Mathematics, Natural Science, & Pre-Engineering. B.S., Columbus State University; M.S., Troy University; Ed.S, Troy University; Ed.D., Auburn University.
- CHASTAIN, RAGAN.** Mathematics. B.A., Huntingdon College; M.S., University of Tennessee.
- CHOCKLEY, KAREN.** Dental Assisting Program Director. A.S. Hopkinsville Community College, B.S., Athens State University.

**CHUMBLEY, DARYL (D.J.).** Administrative Secretary, Nursing.

**COBBS, MICHELE.** Nursing. A.A.S., Wallace State Community College; B.S.N., University of Alabama in Huntsville; M.S.N., University of Alabama in Huntsville.

**COFFELT, RHONDA.** Chemistry Instructor. Ph.D., Tennessee State University; M.S., Tennessee State University; B.S., Austin Peay State University.

**COLEMAN, ANN.** Coordinator of Cooperative Education and Technical Curriculum. B.S., Florida State University; M.S., Troy State University.

**COLLIER, G. DONALD.** Biology. B.S., Athens State University; M.S., Tennessee Technological University; Ph.D., Utah State University.

**CONGO, HEATHER.** English. B.A., The University of North Carolina at Wilmington; M.A., The University of Kentucky.

**COOK, MARIAN.** Systems Analyst.

**COOPER, LOUIS.** Multimedia Programmer Technician.

**COOPER, TINA.** Executive Secretary, Student Services. B.S., Athens State University, B.S., University of North Alabama.

**CORN, CHRISTI A.** Transcript Recorder, Admissions & Records. B.S.B.A., The University of Alabama in Huntsville.

**COUCH, NATALIE.** Administrative Secretary, Nursing. B.S., Samford University; M.P.A., Troy University.

**COX, VALERIE.** Developmental Mathematics. Department Chair. B.S., Murray State University; M.S., Nova Southeastern University.

**CRAIG, MARSHA.** Computer Information Systems. A.A., Northeast Mississippi Junior College; B.B.A., The University of Mississippi; M.A., Mississippi State University; Ed.D., University of Alabama.

**CRAWFORD, JENNIFER.** Adult Education Teacher. A.S., Calhoun Community College; B.S., Athens State University.

**CROSS, RANDY K.** English. B.S., M.A., University of North Alabama; Ph.D., The University of Mississippi.

**DANIEL, BRETT.** PC Technician. A.A.S., Shoals Community College.

**DAVENPORT, KEVIN.** Director of Security. A.S., A.A.S., Calhoun Community College; B.S., Athens State University.

**DAVIS, DARYL.** Campus Police Officer.

**DAVIS, GAMBRYN.** Administrative Secretary, Advising and Career Services. A.A.S., Snead State Community College; B.A. Columbia College.

**DAWS, HEATH.** Dual Enrollment/Advisor Recruiter. B.S., Athens State University.

**DONALDSON, MELANIE.** Campus Police Shift Supervisor. B.S., Athens State University.

**DUNBAR, RACHEL.** Child Development. A.A., Emory University; B.S., Georgia Southern University; M.A., Teachers College, Columbia University; Ph.D., Georgia State University.

**DUNCAN, JEANEAN.** Admissions & Records Office Supervisor. B.S., Jacksonville State University.

**DUNN, HOLLY.** Receptionist, Admissions & Records. A.S., Calhoun Community College; B.S., Athens State University.

**DUTTON, DAVID.** Welding Lab Assistant. Certificate Program

**DUTTON, SANDIE.** Payroll Clerk. A.A.S., Northwest Shoals Community College.

**EISNER, JIM.** Student Records Analyst. B.A., University of Charleston; M.S., Trident University International.

**ELLIOTT, IVAN KEITH.** Campus Police Officer.

**ELLIS, TAMMY.** Institutional Research Analyst. B.S., University of North Alabama.

**ELKINS, LEONETTE.** Secretary. Adult Education. A.A.S., Calhoun Community College.

**ELMORE, BRANDON.** Grounds/Maintenance

**ESTES, MELISSA.** Accountant/Cashier Supervisor. B.S., Athens State University.

**ESTILL, DONNA.** Dean of Humanities and Social Sciences. B.A., The University of Alabama; M.A., The University of Alabama in Huntsville; Ed.D., The University of Alabama.

**EVANS, ANGELA.** Financial Aid Asset Management Accountant. B.S., Athens State University.

**EWING, FELECIA L.** Biology. B.S., M.S., The University of Alabama in Huntsville.

**FELIX, DIONNE.** English. B.A., Oakwood University; M.A., The University of Alabama in Huntsville; Ph.D., Capella University.

**FELLOWS, KIMBERLY.** GED Chief Examiner. B.S., Louisiana Tech University; M.S.A., University of Louisiana - Monroe.

**LYDIA FELTS.** Circulation Clerk. B.A., Harding University; M.L.I.S., The University of Alabama, Tuscaloosa.

**FERGUSON, ZEBULON.** Welding Instructor. Welding Certificate, Wallace State Community College.

**FINLEY, CHEALSIE.** Accounts Student Receivables Clerk. A.A.S., Calhoun Community College.

**FLETCHER, LISA.** Advisor/Recruiter. A.S. Calhoun Community College; B.S. Athens State University.

**FOWLER, ANDY.** Police Officer/Decatur Campus. B.S., Athens State University.

**FRYE, SARA.** Circulation Clerk, Huntsville Campus. B.A., University of Montevallo.

**GAINES, KIM, PHR.** SHRM-CP Director of Human Resources & Payroll. B.S.B.A., The University of Alabama in Huntsville.

**GALBREATH, JIMMY.** Nursing. A.A.S., Calhoun Community College; B.S.N., M.S.N., The University of Alabama in Huntsville. DNP, The University of Alabama in Huntsville.

**GALKOWSKI, KIM.** Evening Secretary, Huntsville Campus. A.A.S., Calhoun Community College.

**GERRIE, LANCE.** General Maintenance.

**GEIGER, JENNIFER.** Calhoun Workforce Solutions Assistant. B.S., University of Maine at Augusta.

**GEORGE, NATASHA.** Wellness Center Assistant, Athletics/Physical Education. B.A., Athens State University.

**GIBBS, JENNIFER.** Nursing. A.D.N., Purdue University; B.S., Purdue University; M.S.N., University of Alabama in Huntsville; D.N.P., The University of Alabama in Huntsville.

**GIBSON, MICHAEL.** Computer Information Systems. Department Chair. A.S., Calhoun Community College; B.S., University of Alabama in Huntsville; M.S., University of Alabama in Huntsville.

**GIBSON, JAMES.** General Maintenance. B.A., Fine Art/English, University of Mobile.

**GINDHART, BRANDI.** English. B.S., The University of Alabama in Huntsville; M.A., The University of Alabama in Huntsville.

**GIST, CAROL.** Nursing. A.A.S., Calhoun Community College; B.S.N., M.S.N., DNP, The University of Alabama in Huntsville.

**GLASSCOCK, KURT.** Security Officer/Decatur Campus.

**GODSEY, WILLIAM A., JR.** Fine Arts. Speech/Theatre. Department Chair. B.S., University of North Alabama; M.A., Memphis State University.

**GOLBEN, JOHN P.** Physics. B.S., University of Minnesota; M.S., Ph.D., Ohio State University.

**GONZALEZ, ANTHONY.** Enterprise Mobility Management Virtual Computing Administrator A.A.S., Calhoun Community College.

**GOOCH, EDDIE.** Virtual Services Specialist/Title III, Information Technologies.

**GRAHAM, MARGARET.** Biology. B.S., Louisiana State University Baton Rouge; M.S., Louisiana State University.

**GRANDISON, EGYPT.** Clerk/Cashier, Huntsville Campus. A.A.S., Virginia College of Huntsville.

**GRAVES, LINDA.** Programmer Analyst. B.S., Franklin University.

**GREENE, MISTY.** Administrative Secretary, Allied Health. A.S., Gadsden State Community College.

**GRIFFIN, JOSHUA.** Economics Instructor. M.S., Auburn University; B.S., Indiana Wesleyan University.

**GRIFFIN, JULIE.** Cashier. A.A., A.S. Calhoun Community College.

**GRIMME, RISE.** Clinical Laboratory Technology Instructor. B.S., Indiana State University; M.A., Ashford University.

**GRISSOM, GINA.** Administrative Secretary, Technologies and Workforce Development. B.S., Belmont College.

**HALE, DAWN.** Secretary, Services to Special Populations/ADA. B.B.A., Athens State University.

**HALE-BROWN, VICKIE.** Nursing. A.S., Oakwood University; B.S., University of Texas at Arlington; M.S., Texas Women's University; D.N.P., University of Alabama at Birmingham.

**HALLMARK, KEITH C.** Computer Information Systems. A.S., Calhoun Community College; B.S., University of North Alabama; M.S., Middle Tennessee State University.

**HARRIS, WESLEY.** Advisor/ORI Teacher. B.A., The University of Alabama.

**HANSARD, KRISTINA.** Career and College Advisor. M.S., University of Tennessee Knoxville.

**HARRISON, JARROD.** General Maintenance.

**HARVARD, JENNY.** History. B.S., University of Montevallo; M.E., University of Montevallo.

**HEAPS, WILLIAM FRANKLIN.** Police Officer.

**HELMS, BRYAN.** Vice President of Financial and Administrative Services. A.A., Enterprise State Junior College; B.S., Troy State University; M.B.A., Auburn University.

**HENDERSHOT, DEBI.** Dean, Planning, Research and Grants. B.S., Athens State University; M.S., Faulkner University. Ph.D., The University of Alabama.

**HENDRIX, AMANDA.** Chemistry. B.S., Lambuth University; Ph.D., The University of Alabama.

**HICKS, MICHAEL.** Mathematics Instructor. B.S., Northeast Louisiana University; M.A., University of Alabama; M.S.E. Northwestern State University of Louisiana.

**HIGHTOWER, YVONNE.** Administrative Secretary/Multimedia Assistant.

**HILDERBRAND, REBECCA.** Project Assistant, Institutional Advancement. A.S., Calhoun Community College.

**HILL, GEORGE.** PC/Network Technician ,Physical Security Administrator/ Network Server Specialist. Information Technologies. A.S. Calhoun Community College.

**HILL, STEPHANIE.** Records Clerk.

**HOGAN, LYNN S.** Nursing. Department Chair. B.S.N., The University of Florida; M.S.N., The University of Alabama in Huntsville; D.N.P., The University of Alabama in Huntsville.

**HOGAN, TIFFANY.** Physical Therapist Assistant. A.A.S., Wallace State Community College.

**HOLAWAY, STEVEN.** Nursing. B.S.N., M.S.N., The University of Alabama in Huntsville.

**HOLBROOK, CHARLES.** Mathematics. B.S., Athens State University; M.E.D., Alabama A & M University.

**HOLLEY, JOHN.** Heating, Ventilation and Air Conditioning. Technologies, Dept. Chair. A.A.S., Calhoun Community College; B.S., Athens State University.

**HOPKIN, DANIEL.** Multimedia Audio Video Technician. B.S., University of North Alabama.

**HOVATER, KELLY.** Student Activities Facilitator/Recruiter. B.S., Athens State University; B.S., University of North Alabama

**HUDSON, TIMOTHY.** Adult Education Teacher. B.S. Athens State College.

**HUGHES, PAUL.** Database Analyst. B.S. University of Alabama in Huntsville.

**HUMPHREY, ANGELA.** Records Clerk. B.S., Faulkner University.

**HUTCHINSON, TIFFANY.** Administrative Secretary, Natural Sciences. B.S., Oakwood University.

**IRBY, ALEXANDREA.** Advisor/ORI Teacher. B.S., Oakwood University; M.S., The University of Alabama.

**JACKSON, DAVID.** Construction Trade Instructor. B.S., Athens State University.

**JACKSON, GERALD.** Head Librarian/Huntsville Campus. B.S., Athens State University; M.L.I.S., The University of Alabama.

**JACKSON, JESSICA.** Enrollment Services Clerk. B.A., Athens State University.

**JENKINS, PHIL.** Painter.

**JEWART, KATHRYN.** Career and College Advisor. B.S., University of Central Arkansas; M.A., University of Arkansas at Little Rock.

**JOHNSON, DAVID.** Counselor/Huntsville Campus. A.S., Calhoun Community College; B.S., Athens State University; M.S., Alabama A&M University; M.A., The University of Alabama.

**JOHNSON, JUDY.** Executive Secretary, Social Science Division. A.S., Calhoun Community College; B.B.A., Athens State University; MBA, University of North Alabama.

**JOHNSON, TYLER.** Classroom Technology & Integration Specialist, Information Technologies. A.S. Calhoun Community College; B.S., Athens State University.

**JONES, ANN.** Adult Education. Data Entry Specialist.

**JONES, BERNADETTE.** English. B.S., Alabama A & M University; M.A., University of Alabama in Huntsville.

**JONES, JOHN.** Biology. B.S., Ph.D., University of Southern Mississippi.

**JONES, MATTHEW.** Welding Instructor. A.A.S., Northeast Alabama Community College.

**JORDAN, CAROLYN.** Secretary, Huntsville Campus. B.S., Oakwood College.

**JORDAN, ODESSA.** Accounting. B.S., The University of Alabama in Huntsville; M.B.A., University of Phoenix.

**KEENUM, NANCY E.** Head Softball Coach/Athletic Director/Physical Education. A.S., Calhoun Community College; B.S., The University of Alabama; M.A., University of North Alabama; Ed.D., Nova Southeastern University.

**KELLEY, ALAN.** Lead Network & Server Administrator, Shop Supervisor Technologies. B.S.E.D., Athens State University.

**KELLEY, JANICE.** Chemistry Lab Assistant. B.S., Florence State College; M.A.Ed., Florence State University.

**KELLUM, MARTY.** Mathematics Lab Instructor. A.S., Calhoun Community College; B.S., The University of Alabama in Huntsville; M.S., Texas A&M University.

**KELLY, RONDA.** Administrative Secretary, Fine Arts.

**KENNEDY, IRENE.** Data, Assessment and Reporting Specialist. B.S.B.A., University of Alabama in Huntsville.

**KILGORE, JUDY.** Accounts Clerk. A.S., Tidewater Community College. B.S. Old Dominion University.

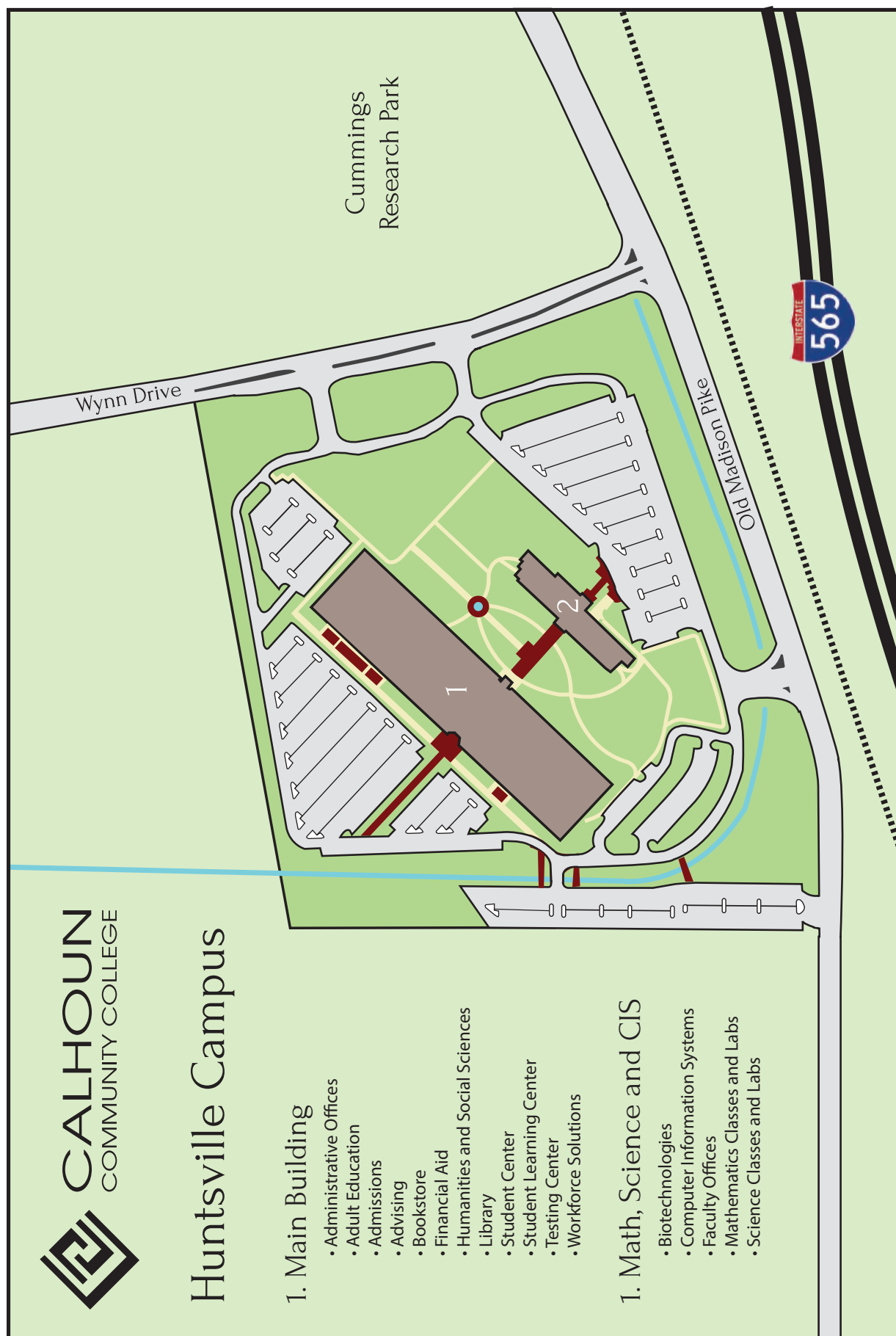
**KINCHERLOW-MARTIN, JANET.** Assistant to the President for Public Affairs, Community Relations and Special Events. B.S., Middle Tennessee State University.

- KING, WILLIE.** Practical Nursing. A.A.S., Calhoun Community College; B.S.N., M.S.N., The University of Alabama in Huntsville. DNP, The University of Alabama in Huntsville.
- KINNEY, A. MICHAEL.** History. A.A.S., Community College of the Air Force; A.S., B.S., University of Maryland Asian Division; M.S., D.A., Illinois State University.
- KIRKLAND, KENNETH.** Emergency Medical Services. A.A.S., Calhoun Community College; B.S.N., Jacksonville State University.
- KLAUBER Sr., JAMES.** President. B.A., The Citadel; J.D., University of South Carolina; PhD, University of South Carolina.
- KNIGHT, MITCHELL.** Industrial Trainer/Skills Assessment Specialist. B.S., University of North Alabama; M.A., University of North Alabama.
- KNIGHT-SPENCER, JANNETT.** Director of Student Financial Services. B.A., Stillman College.
- LACKEY, DENISE.** Secretary, Human Resources.
- LADNIER, EILEEN.** Secretary. Adult Education/Huntsville Campus.
- LARRY, CARLA.** Executive Secretary, Business Office. A.S., Calhoun Community College
- LAWLESS, SUSAN G.** Nursing. B.S.N., University of Alabama Birmingham; M.S.N., University of Alabama.
- LEE, DEBY.** Nursing. Diploma, St. Vincent School of Nursing; B.S.N., M.S.N., The University of Alabama in Huntsville.
- LEE, MARYLA K.** Nursing. RN Diploma, St. Vincent School of Nursing; B.S.N., M.S.N., The University of Alabama in Huntsville; DNP, The University of Alabama in Huntsville.
- LINCOLN, MARK.** Carpenter.
- LINDSAY, RENEE.** Purchasing Specialist, Business Office. A.S., Calhoun Community College; B.S., Athens State University.
- LoCASCIO, SUSAN.** Psychology. Department Chair. B.S., Indiana University; M.S., Cameron University; M.S.W., University of Oklahoma; Ph.D., Capella University.
- LOOSIER, GINA.** Advisor, Advising Center. B.S., Athens State University; M.A., University of North Alabama.
- LOUDEN, JENNIFER P.** Nursing. A. S., Motlow State Community College; A.A.S., Calhoun Community College; B.S.N., University of Alabama in Huntsville; M.S.N., University of Alabama in Huntsville; D.N.P., The University of Alabama in Huntsville.
- LOVE, THALIA F.** Coordinator, Developmental English & Reading Labs. B.S.A., Dillard University; M.A., Southern Illinois University; Ed.D., The University of Alabama.
- LOWERY, LINDA W.** Science Learning Center Lab Assistant. B.S., University of North Alabama; M.S., University of North Alabama.
- LOYD, JAMES.** Director of Library Services. B.A., Samford University; M.L.I.S., University of Alabama.
- LUCERO, MARK.** Database Analyst. A.S., Calhoun Community College; B.S., Athens State University.
- MACKRELL, HEATHER.** Physical Therapist Assistant. B.A., University of Colorado; M.S., Texas Women's University; Ph.D., Texas Woman's University.
- MADDEN, ROBERT.** Network Server Administrator.
- MALONE, JUANA.** Mathematics. B.S., The University of Alabama in Huntsville; M.B.A., Florida Institute of Technology.
- MARTIN, SYBIL.** Health Science Simulation Lab Instructor. A.A.S.N. Jefferson State Community College; B.S.N., M.S.N., Jacksonville State University; M.B.A., Columbia Southern University; D.N.P. University of South Alabama.
- MARTIN, TIM.** Carpenter.
- MASHBURN, NICOLE.** Biology. B.S., Auburn University; Ph.D., The University of Alabama at Birmingham.
- MCCAGHREN, SHANNON LePAGE.** Secretary, Business/CIS Division. A.A.S., Calhoun Community College.
- McCALL II, RONALD.** Transcript Evaluator/International Student Advisor. B.A., University of Alabama in Huntsville.
- McCAY, PAT.** Secretary, Limestone Correctional Facility. A.S., Calhoun Community College.
- McGILL, BRET.** Dean of Health Division. Paramedic Certificate, University of Alabama in Huntsville; A.A.S., Calhoun Community College; B.S., Faulkner University; M.S., Faulkner University.
- McKEE, KATELYN.** Technical Applications Specialist. A.A., Calhoun Community College. B.A., University of Alabama in Huntsville.
- McLEMORE, DONALD.** Grounds/Maintenance.
- McMURRY, DAVID.** Shift Supervisor Public Safety. A.S., Calhoun Community College.
- MILLER, CHRISTINA.** Director of Adult Education and GED Services. B.A., University of Arkansas; M.A., University of North Alabama.
- MILLER, DEBORAH.** Nursing. A.A.S., Calhoun Community College; B.S.N., M.S.N., The University of Alabama in Huntsville; D.N.P., The University of Alabama in Huntsville.
- MILLER, LAWRENCE.** Drafting & Design Technology. M.L.A., Auburn University.
- MINTZ, RITA.** Accounting. A.S., West Georgia College; A.S., Calhoun Community College; B.B.A., Athens State University, MBA, University of North Alabama.
- MINTZ, WALTER.** Business Administration Lab Assistant. M.S., Florida Institute of Technology; B.S., Athens State University; A.A.S., A.S., Calhoun Community College
- MITCHELL, GLENDA.** History. B.A., Gardner Webb University; M.A., Western Carolina University; Ph.D., University of Georgia.
- MITCHELL, TANJA.** Faculty Secretary, Huntsville Campus. B.S., Athens State University.
- MIZELL, BOYD.** Classroom Technology & Integration Specialist. B.S., Full Sail University.
- MONTGOMERY, TAD.** Machine Tool Technology Instructor. A.A.S., Calhoun Community College; B.B.A., Athens State University; M.E., Alabama A&M University.
- MORRIS, ARTHUR.** Mathematics. A.S., Department Chair. Wallace State Community College; B.S., Athens State University; M.A., The University of West Alabama.
- MORRIS, KELLI.** Graduation and Job Placement Specialist. A.S., Calhoun Community College; B.S., Athens State University; M.B.A., University of North Alabama.
- MOSLEY, RICHARD TYLER.** EMS. A.A.S., Calhoun Community College.
- NEVITH, KAR'RIE TYSHUN.** History. B.S., M.A., The University of Alabama.
- NICHOLAS, NECIA M.** Biology. A.S., Calhoun Community College; B.S., Athens State University; M.S., University of Alabama in Huntsville.
- NICKE, EFFIE.** Biology Instructor. A.S., Community College of Philadelphia; B.S., Loyola University of New Orleans; M.S., Tulane University.
- NIXON, CHARLINE.** CIS Instructor. B.S., M.B.A., Ph.D., Urios College, Philippines; M.S. Virginia College.
- NOE, BELINDA.** Secretary, President's Office. A.S., Calhoun Community College; B.S., Athens State University.
- NORRIS, BRANDON.** Network Server Administrator. A.A.S., Owensboro Community College and Technical College.
- NUNN, APRIL.** Language and Literature. Department Chair. Humanities. B.A., University of North Alabama; M.A., Ed.D., The University of Alabama.
- OAKES, BRIAN.** Paralegal. B.A., The University of Alabama at Birmingham; J.D., The University of Alabama.
- O'NEILL, DOUGLAS.** Electrical/Plumbing Foreman.

- ONEGA, JILL.** English. B.A., Louisiana State University; M.A., University of Alabama; Ph.D., University of Alabama.
- OTT, DEBBIE.** Administrative Secretary, Advising Center. A.S., Calhoun Community College.
- OTTE, MORGAN.** Advisor/ORI Teacher. B.S., Auburn University.
- OWENS, KALEB.** Career and College Advisor. A.A., Gadsden State Community College; B.A., The University of North Alabama.
- OWENS, LAWRENCE.** Machine Tool Lab Assistant. A.A.S., Calhoun Community College.
- PARDAZI, BEHNAZ.** Programmer Analyst. A.S., Jefferson State Community College; B.S., University of Alabama in Huntsville.
- PARKER, LANITA.** Webmaster/Multimedia. A.S., Northwest Shoals Community College.
- PARRIS, BRENDA.** Technical Services/Reference Librarian. B.S., Lee College; M.L.S., East Carolina University; M.L.I.S., Florida State University.
- PATNAYAKUNI, NAINIKA.** Computer Information Systems. Ph.D., Southern Illinois University.
- PAYNE, JAMES.** Dean of Business, CIS & Technologies. A.S., Danville Junior College; B.S., Illinois State University; M.A., Southern Illinois University; Ph.D., Middle Tennessee State University.
- PECK, DIANE.** Workforce Solutions Project Manager. B.B.A., Middle Tennessee State University.
- PHILLIPS, JESSICA.** Advisor/ORI Teacher. B.A., The University of Alabama in Huntsville.
- POLLOCK, LARRY.** Help Desk/Technician, Information Technologies. A.P. Certificate, University of Alabama in Birmingham.
- POWE, HOLLY.** Music Instructor, Fine Arts. B.M. The University of Alabama; M.E. Alabama A & M University. Ph.D., The University of Alabama.
- POWELL, GARY.** Campus Police Officer.
- POWELL, STACY.** Nursing. B.S., University of North Alabama; M.S., University of Alabama in Huntsville.
- POWERS, KAY.** Mail Clerk.
- POWERS, LANA.** Coordinator of Printing.
- PRADHAN, DIVYA.** Biology. B.S., University of North Bengal; M.S., University of North Bengal; M.S., University of Alabama in Huntsville; Ph.D., University of Alabama in Huntsville.
- PRATER, BRITTANY.** EMS Lab Assistant. A.A.S., Calhoun Community College.
- PRESSNELL, DONNA.** Executive Secretary, Human Resources. A.A.S., Calhoun Community College; B.B.A., Athens State University.
- PROVIN, WILLIAM H.** English/Theatre. B.S., M.S., Canisius College; M.B.A., University of Mississippi.
- PUCKETT, SUSAN.** English. B.A. University of Alabama; M.A., University of North Alabama.
- PUGH, ANTHONY.** Campus Police Officer.
- PYLANT, AMY.** Psychology. B.S., Troy University; M.S., Troy University.
- RAMSEY, DONNA.** Financial Aid Clerk, Student Financial Services. A.S., Calhoun Community College.
- REID, RACHEL.** Career and College Advisor. B.S., Stevenson University.
- RENFRO, JR., JOHN.** Business and Computer Information Systems. B.A., M.S., M.A., The University of Alabama in Huntsville.
- RHEA, LEIGH ANN.** English. B.S., Athens State University; M.A., The University of Alabama in Huntsville; D.N.P., Indiana University of Pennsylvania.
- RICHARDSON, ANTHONY.** HVAC Foreman.
- RICHARDSON, KAREN.** Biology. A.A.S., Virginia College; B.S., Auburn University; D.M.D., University of Alabama School of Dentistry.
- RICHEY, DOROTHY LAQUINN.** Financial Aid Clerk. B.S., Athens State University.
- RIGGINS, KAREN.** Financial Aid Clerk. B.S., The University of Alabama in Huntsville.
- ROBBINS, TERESA.** Database Analyst. B.S., University of Alabama at Birmingham.
- RODRIGUEZ, EMILY.** Career & College Advisor. B.A., University of Alabama in Huntsville.
- ROSE, SEBASTIAN MARK.** Industrial Technology Instructor. A.A.S., Calhoun Community College.
- ROUSE, PATRICK.** Industrial Systems Technology Instructor. A.A.S., Calhoun Community College.
- RUSSELL, MINDI.** Adult Education Teacher. B.S., Athens State University.
- RUSSELL, SAMANTHA.** Mathematics. B.S., Athens State University; M.S., Troy University.
- SAKYI ADDO, ISAAC.** Sociology. Department Chair, Social Science/Huntsville Campus. B.A., University of Ghana; M.A., Ph.D., University of North Texas.
- SARTIN, NANCY.** Administrative Secretary, Admissions.
- SAWYER, EDDIE.** Construction Trade Instructor, Limestone Correctional Facility. B.S., Auburn; M.S., Troy University.
- SAYLE, SARA.** Psychology. B.S., Athens State College; M.A., University of North Alabama; Ed.S., Alabama A & M University.
- SCOTT, CHERRI.** Evening Clerk, Student Financial Services. A.A.S., A.S., Calhoun Community College.
- SEIBERT, RICHARD.** English. B.S., Athens State College; M.A., University of Alabama in Huntsville.
- SELF, ROBIN.** Administrative Secretary, Humanities Division. B.A., Athens State University.
- SEWELL, JENNY.** Director of Accounting. B.B.A., M.B.A. University of North Alabama.
- SHACKELFORD, CHASON.** Advisor/ORI Teacher. B.S., The University of Alabama.
- SHARP, JILL.** Advisor/ORI Teacher. B.S., University of Montevallo.
- SIMS, COLLIS.** Industrial Systems Technology. B.S., Alabama A & M University.
- SIMS, RONALD.** Facilities Operations Manager.
- SMITH, BRADLEY.** HVAC Technician. A.A.S., Calhoun Community College.
- SMITH, DENNY, PHR.** Director of Testing and Assessment Center. B.S., The University of North Alabama; B.S., Athens State University; M.P.A., Jacksonville State University; Ph.D., Mississippi State University.
- SMITH, TRINA.** Student Loan Coordinator, Student Financial Services. B.S., Athens State University; M.S.M., M.A., The University of Alabama in Huntsville.
- SNEED, JULIE.** Speech. B.A., University of Mary Hardin-Baylor; M.A., University of Alabama in Huntsville.
- SNOW, LETITIA.** Instructional Designer. B.S., Florida Southern College; M.S., Troy University.
- SOMASUNDARAM, SIVAJAH.** Mathematics. B.S., Ph.D., The University of Waikato, New Zealand.
- SOMMERVILLE, ROBERTA.** Secretary, Technologies and Workforce Development. A.A.S., Calhoun Community College.
- SPENGLER, MARC.** Electrical Technical Lab Assistant. A.A.S., Calhoun Community College.
- SPRINKLE, JACOB.** Welding Lab Assistant. AOT; Northwest Shoals Community College.

- STANCIL, SHERRY.** Speech Instructor. B.A., University of North Alabama; M.A., University of Alabama at Birmingham. Ed.D., Nova Southeastern University
- STEELE, OLA C.** Adult Education Teacher. B.A., Massey Jr. College; B.S., Alabama A & M University.
- STEPHENSON, CYNTHIA.** Computer Information Systems. B.S., M.S., University of North Alabama.
- STEWART, JAMES.** Criminal Justice Instructor. B.S., Columbia Southern University; M.S., Nova Southeastern University.
- STEWART, MICHAEL.** HVAC Technician. A.O.T., Northwest-Shoals Community College.
- SUMMERLIN, MITCHELL.** English. B.A., University of Central Florida; M.A., Old Dominion University; Ph.D., University of Georgia.
- SWAIN, DON.** Huntsville Campus Police Site Supervisor. A.S., Calhoun Community College.
- SWINNEY, CARLA.** Administrative Assistant, Student Services. B.S., The University of Alabama.
- SWOPES, RONALD.** Mail Services/Grounds/Maintenance.
- SZYMEZAK, JERRY.** HVAC Technician/Huntsville Campus.
- TAJALLE-BALDWIN, LATOSHA.** Senior Advisor/Recruiter. B.S., Jacksonville State University; M.S., Alabama A&M University.
- TAYLOR, FELISHA.** Graduation Analyst. B.A., The University of Alabama.
- TAYLOR, JORDAN.** Writing Lab Coordinator. M.A., University of North Alabama.
- THOMAS, DARREN.** Drafting Lab Assistant
- THOMAS, LAKEISHA.** Enrollment Services Clerk. B.S., The University of Alabama
- THOMPSON, ALANNA.** Assistant Director of Admissions and Records. B.S., University of North Alabama.
- THRELKELD, STEVEN J.** Biology. Department Chair, Natural Science/Huntsville Campus. B.S., University of North Alabama; M.S., Jacksonville State University.
- THRONEBERRY, SCOTT.** Emergency Medical Services. NREMT-P, A.A.S., Calhoun Community College; B.S., Athens State University.
- THURMAN, PAMELA.** Administrative Secretary, Student Financial Services. A.S., Calhoun Community College; B.B.A., Athens State University.
- TORAIN, WES.** Production Supervisor, CETV. B.Ed., Athens State University
- TROUSDALE, RADONA.** Accounts Payable Specialist, Business Office. A.S., Calhoun Community College; B.S., Athens State University.
- TROUSDALE, RANDALL.** Grounds/Maintenance.
- TURNER, SUZANNE.** English. Department Chair. B.A., Athens State University; M.A., The University of Alabama in Huntsville.
- TYLER, NATHAN.** Director of Information Technologies. B.S., B.A., University of Alabama in Huntsville; M.S., Florida Institute of Technology.
- VALLELY, LEAH.** History. B.A., Auburn University; M.Ed., Auburn University of Montgomery; M.A., Western Carolina University.
- VAUGHN, KATHRYN.** Art. B.F.A., Louisiana State University; M.A., Mississippi College.
- VAUGHN, MELISSA.** Teacher, Adult Education. B.S. University of North Alabama.
- VILLALTA, CARMEN.** Advisor/ORI Teacher. B.A., University of Alabama.
- VINCENT, VINCENT.** Director of Workforce Solutions. B.S. Auburn University, Montgomery; M.S., Troy University.
- VINSON, JOAN.** Secretary, Library. B.S., Samford University.
- VIRKLER, JOHN.** Economics. B.A., University of Richmond; M.A., Auburn University; Ph.D., Auburn University.
- WALLACE, DANNY.** HVAC/Electrical/Industrial Lab Assistant. A.A.S., Calhoun Community College.
- WALLSTEAD, JENNIFER.** Accounts Clerk. A.S., Calhoun Community College.
- WALTS, JENNIE.** Director of Faculty Development. A.S., Calhoun Community College; B.S., Athens State University.
- WARREN, KERRY.** Facilities Project Manager.
- WATKINS-SCOTT, ANGELA.** Nursing. A.S., Calhoun Community College; B.S.N., M.S.N., The University of Alabama in Huntsville.
- WATSON, BRENT.** Nursing Instructor. B.S., The University of Birmingham; M.S. University of South Alabama.
- WATSON, TROY.** Design Drafting Engineering/Additive Manufacturing. A.A.S., Calhoun Community College
- WATTS, MIESHA.** Enrollment Services Clerk. M.B.A. Strayer University; B.S., Alabama A&M.
- WELSH, DAVID.** Nursing Instructor. M.S.N., Samford University.
- WESLEY, VINETTA.** Coordinator, Decatur Evening Program. B.S., Norfolk State University; M.A., Atlanta University; Ed.D., Vanderbilt University.
- WESTMORELAND, CHARLES BRETT.** Testing & Assessment Specialist. A.S., Calhoun Community College; B.S., Athens State University.
- WHIGHAM, MARK.** Computer Information Systems. B.S., Alabama A & M University; M.S., Alabama A & M University.
- WHITE, BOBBY.** Printing Press Operator/Darkroom Technician.
- WILLIAMS, ERNEST.** Mathematics. Department Chair, Mathematics. B.S., Alabama State University; M.A., University of Pittsburgh.
- WILLIAMS, JERON.** EMS Instructor. A.A.S., Calhoun Community College.
- WILLIAMS, JOE.** Machine Tool Technology. A.A.S., Calhoun Community College, BSED, Athens State University.
- WILLIAMS, WILLARD.** Plumber/Electrician.
- WILLIAMSON, HOYT E., JR.** Horticulture. Department Chair. B.S., Auburn University; M.S., Alabama A & M University.
- WILLINGHAM, ELIZABETH.** Spanish. B.A., University of North Alabama; M.A., University of Alabama.
- WILSON, GRANT.** Surgical Technology. B.A., The University of Alabama in Huntsville; M.Ed., Alabama A & M University; C.S.T., Surgical Technology Certification.
- WILSON, THERESA.** IT Technician. B.S., St. Mary-of-the-Woods College; M.B.A., Stetson University.
- WILSON, PATRICIA.** Dean of Student Services. B.S., Valdosta State University; M.S., Georgia South Western State University; Specialist ED, Columbus State University; EdD, University of Georgia.
- WOOD, BETH.** Senior Advisor/Recruiter. B.A., Metropolitan State College of Denver.
- WOODRUFF, JHAUNCEY.** Financial Aid Clerk. B.B.A. University of North Alabama.
- WORKS, STEPHANIE.** Student Financial Services Office Supervisor. B.S., M.S., Mississippi State University.
- WRIGHT, BARBARA.** History Instructor. M.A., University of Alabama, Huntsville; B.S., University of Bridgeport.
- YOST, NICOLE.** Financial Aid Clerk. A.S., Wallace State Community College.
- YOUNG, CLINTON.** Shipping & Receiving Secretary. B.S., Tennessee State University.





# HUNTSVILLE CAMPUS

# HUNTSVILLE CAMPUS Main Building



## BOTTOM FLOOR



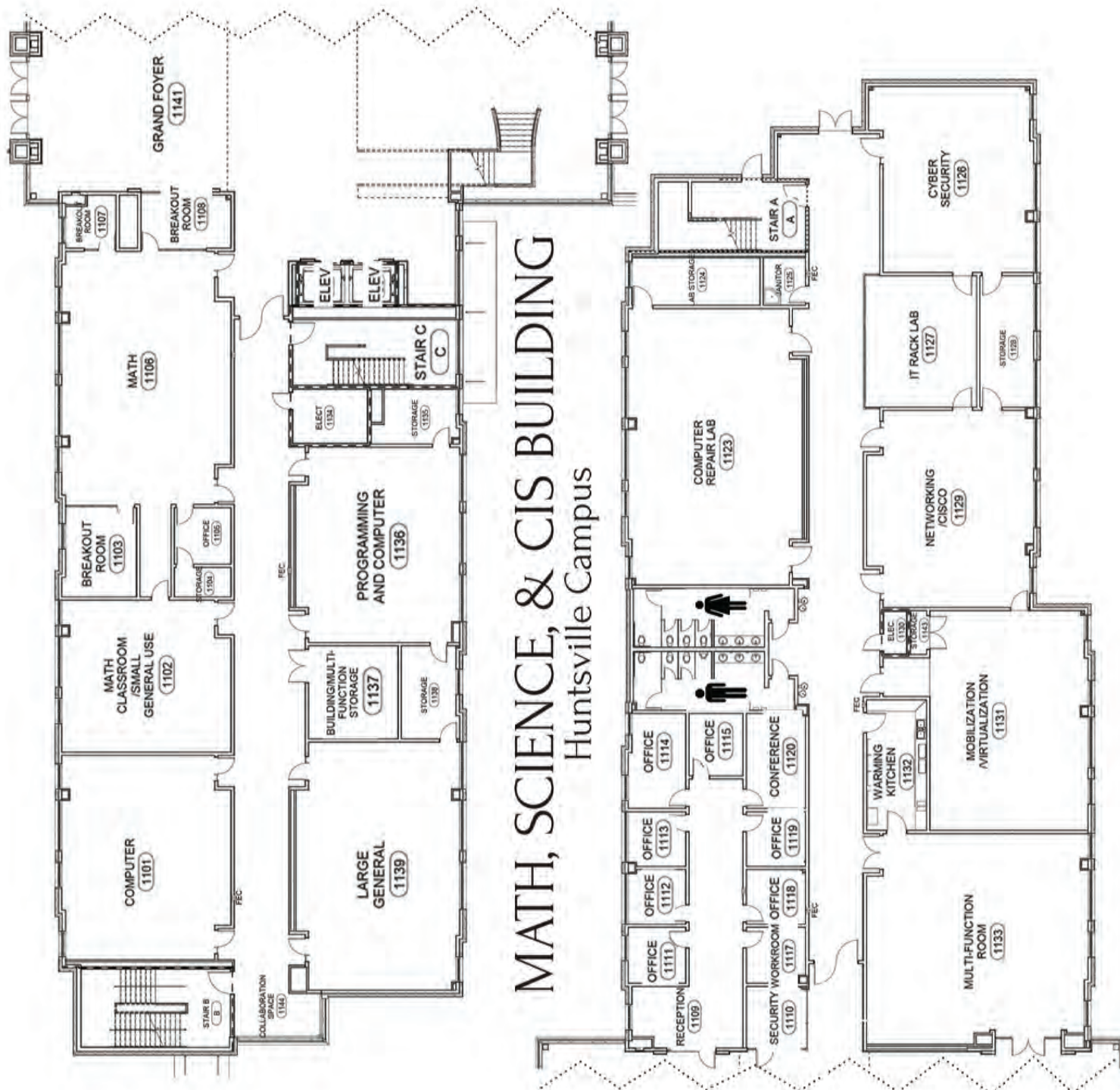
## MAIN FLOOR

South Wing  
1st Floor



CALHOUN  
COMMUNITY COLLEGE

North Wing  
1st Floor



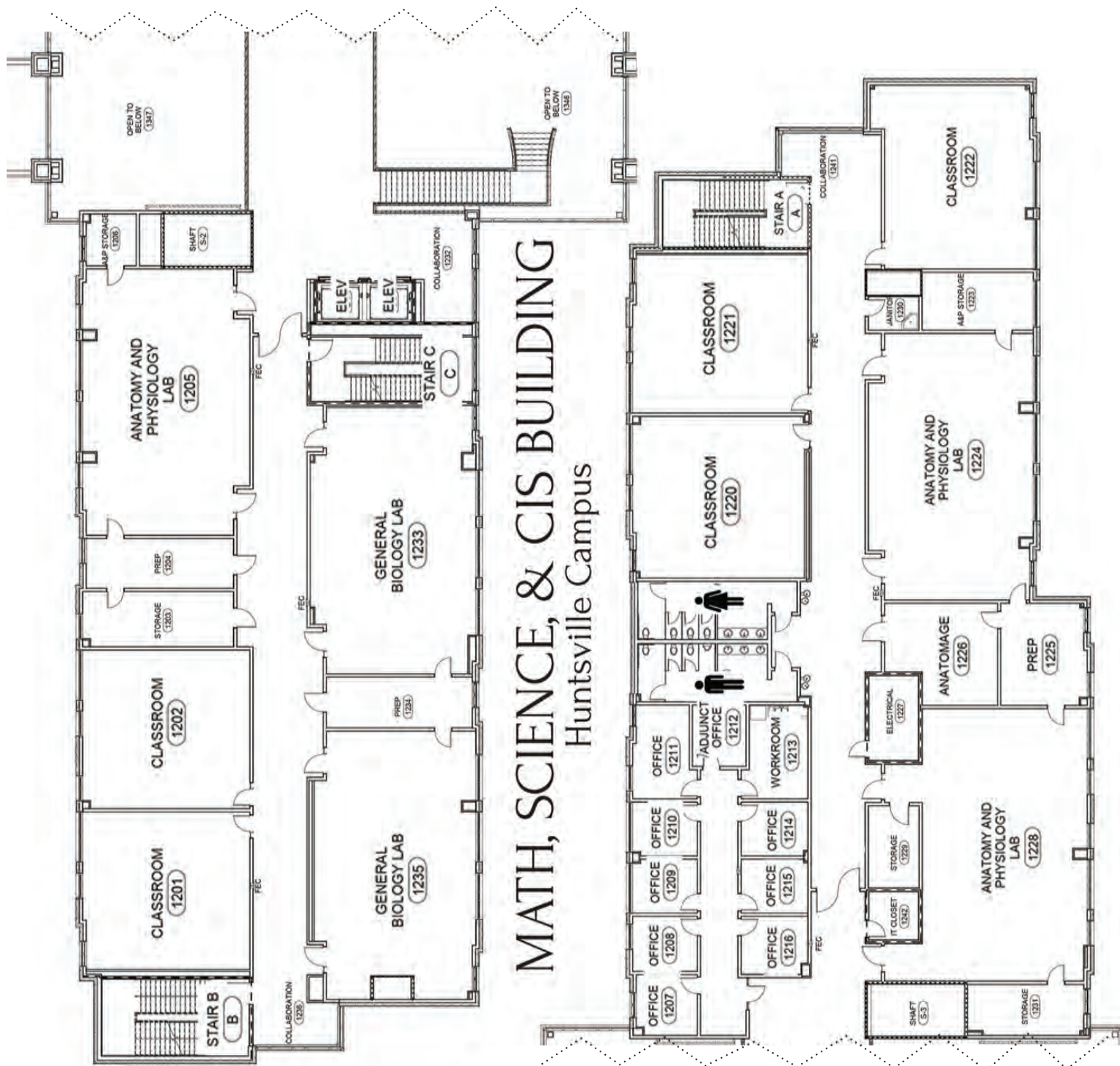
## South Wing 2nd Floor



CALHOUN  
COMMUNITY COLLEGE

## North Wing 2nd Floor

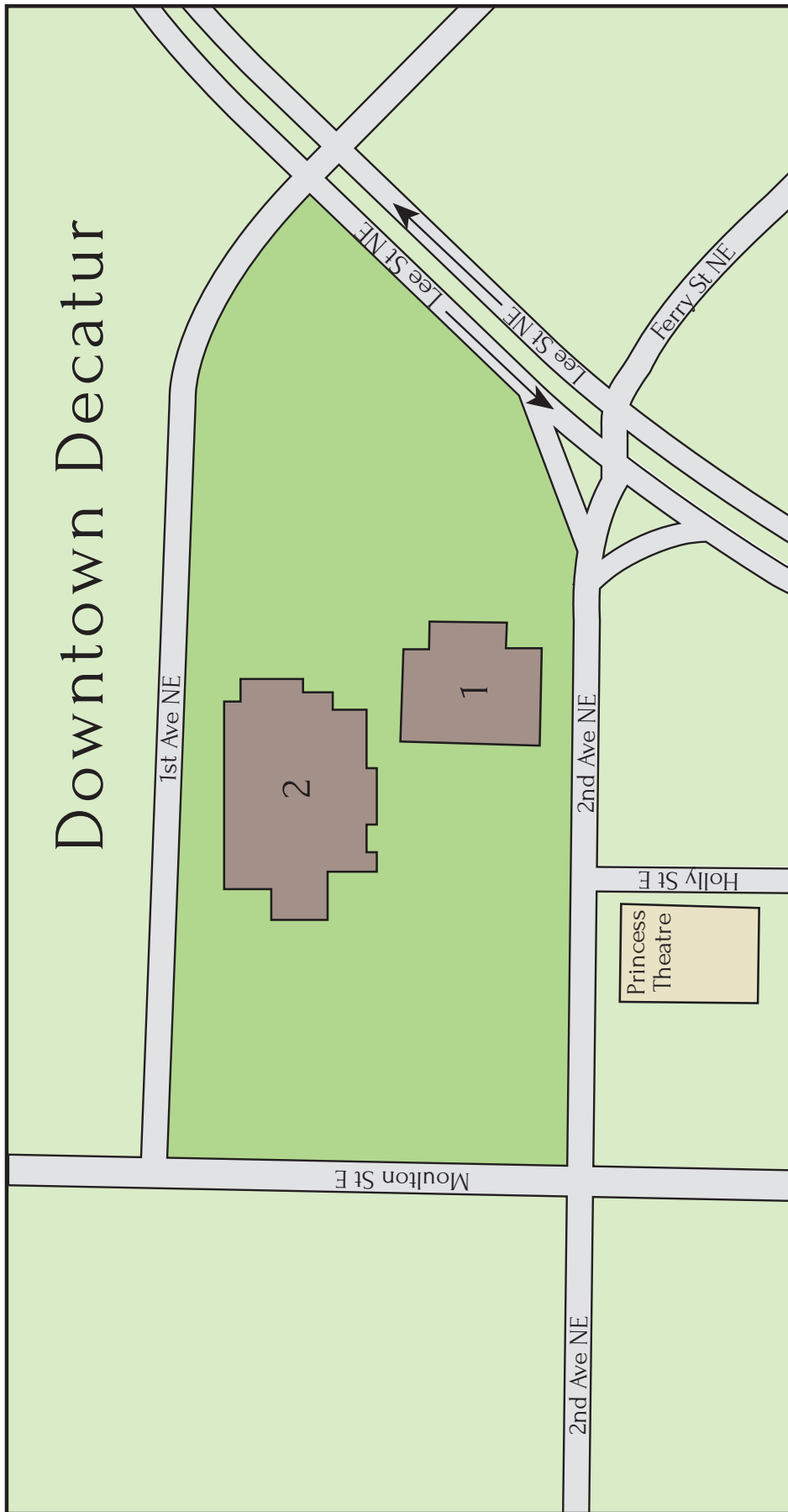
CALHOUN  
COMMUNITY COLLEGE



CALHOUN  
COMMUNITY COLLEGE

North Wing  
3rd Floor





ALABAMA



# CENTER FOR THE ARTS

## 1. Visual Arts Center

- Painting Classroom
- Drawing Classroom
- Computer Graphics Lab
- Art Appreciation
- Classrooms
- Faculty Offices
- Gallery
- Courtyard
- Ceramics Lab
- Studio Space

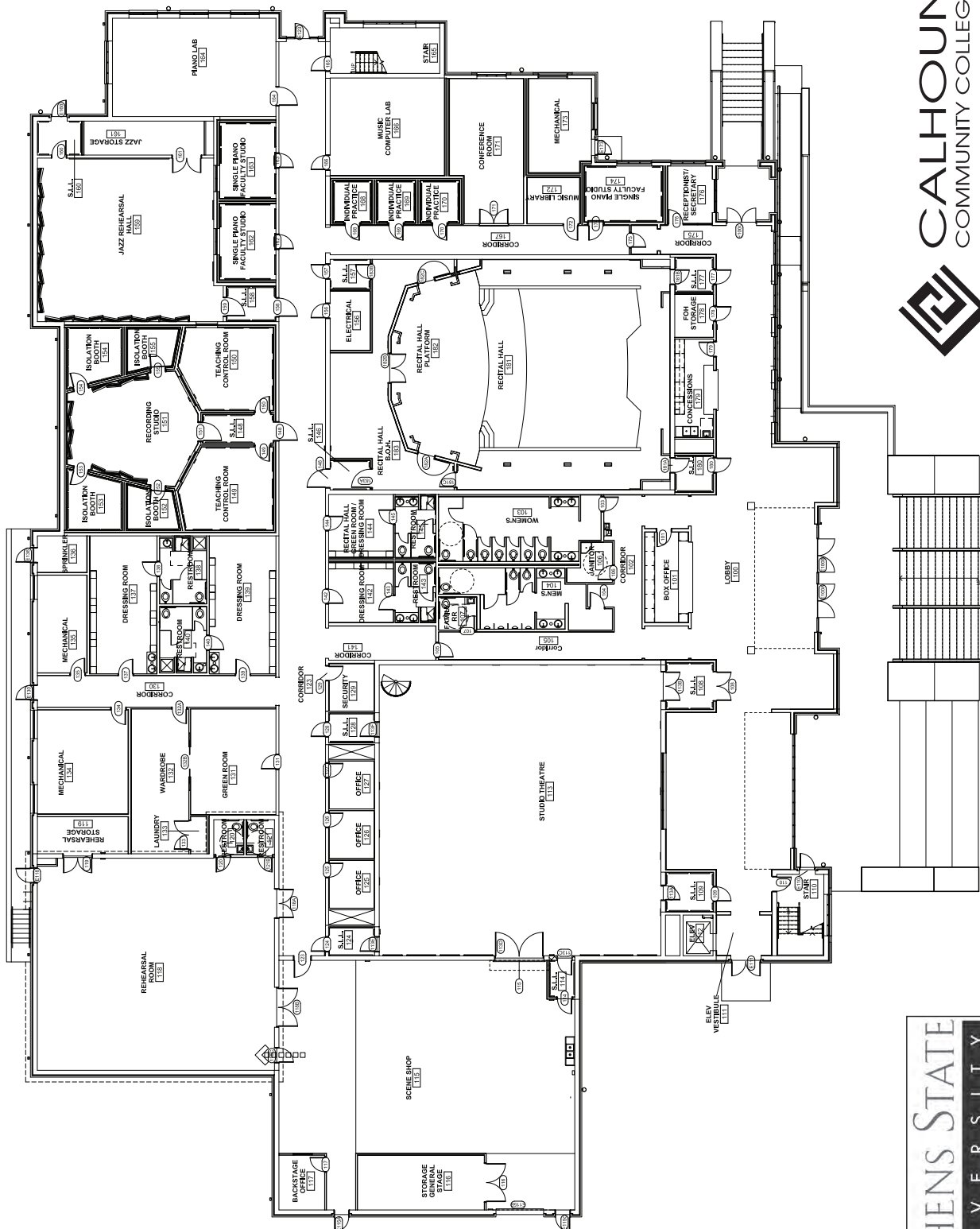
## 2. Performing Arts Center

- Recital Hall
- Black Box Theatre
- Recording Studio
- Jazz Rehearsal Hall
- Piano Lab
- Box Office
- Practice Rooms
- Music Computer Lab
- Private Piano Studios
- Scene Shop



# ALABAMA CENTER FOR THE ARTS

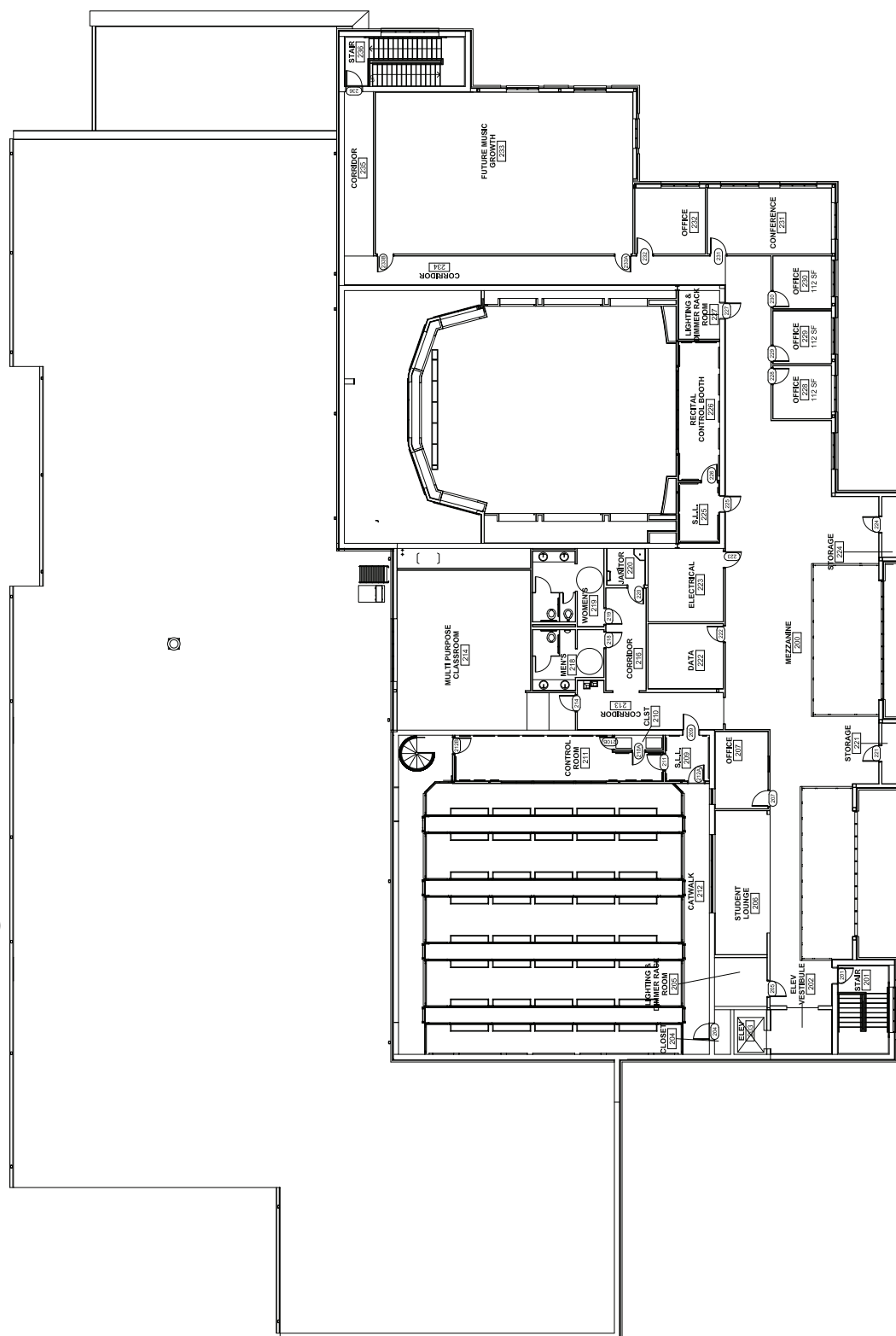
## Performing Arts Center - First Floor



CALHOUN  
COMMUNITY COLLEGE



ALABAMA  
CENTER FOR THE ARTS  
Performing Arts Center - Second Floor





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## SYSTEM OVERVIEW

Governed by the Alabama Community College System Board of Trustees, the ACCS consists of 22 comprehensive community colleges and three technical colleges; Marion Military Institute; and extensive workforce development initiatives, including the Alabama Industrial Development Training Institute and the Alabama Technology Network.

Approximately 300,000 people are served annually by all of the entities in the system, including ATN, workforce development, and adult education. Of those served, approximately 124,000 are enrolled in credit courses.

The Alabama Community College System's commitment to access is characterized by statewide geographical locations, open enrollment, and low-cost tuition, as well as a variety of programs and services that remove barriers to college entrance, education pathways and workforce training opportunities. In addition, thousands of citizens statewide enjoy access to our facilities for community activities and enrichment programs.

The Alabama Community College System is committed to providing a unified system of institutions delivering excellence in academic education, adult education, and workforce development.

The Alabama Community College System provides:

- General education and other collegiate programs at the freshman and sophomore levels to prepare students for transfer to four-year institutions to complete baccalaureate degrees, as well as an upper division university that provides selected baccalaureate programs.
- Adult Education that focuses on improving individuals' skills, productivity and training with GED preparation and testing, basic skills, and English as a Second Language.
- Workforce development initiatives that provide customized, flexible, short-term training programs that are responsive to industry needs – from highly specialized training to programs that help prepare entry-level employees to meet growing demands.

## MISSION

To provide a unified system of institutions dedicated to excellence in delivering academic education, adult education, and workforce development.

## VISION

To develop an educated, prosperous population by providing an affordable pathway to help citizens of any walk or stage of life succeed through quality education and training; a community college system where education works for all.

## VALUES

- Integrity
- Excellence
- Accessibility
- Accountability
- Diversity