



CALHOUN
COMMUNITY
COLLEGE

GENERAL CATALOG

1999-2000

P.O. Box 2216
Decatur, Alabama 35609-2216
Phone (256) 306-2500
or
(256) 890-4700
(Huntsville/Cummings Research Park Campus)

<http://www.calhoun.cc.al.us>

Calhoun Community College
is accredited by
the Commission on Colleges of the
Southern Association of Colleges and Schools
to award Associate Degrees and Certificates

Member of
American Association of Community Colleges
Alabama College Association

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. Shirley Hughes, Office of Human Resources, P.O. Box 2216, Decatur, Alabama 35609-2216; telephone (256) 306-2591. The Title IX Coordinator for students is Dr. Jo O'Neal, Dean of Student Affairs, 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. Shirley Hughes, Office of Human Resources, P.O. Box 2216, Decatur, AL 35609-2216; telephone (256) 306-2591. The Section 504 Coordinator for students is Dr. Jo O'Neal, Dean of Student Affairs, P.O. Box 2216, Decatur, AL 35609-2216; telephone (256) 306-2613 or 890-4700. Dr. O'Neal 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.

It is the intent of the compilers of this catalog that it contain policies, procedures, and guidelines adopted or approved by The State Board of Education of Alabama. Users are cautioned that changes in policies, procedures, and guidelines may have occurred since the publication of this material. In the event of such a conflict, the current statements of Board policy shall prevail.

Welcome to Calhoun Community College



RICHARD CARPENTER
President

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 John C. Calhoun State Technical Junior College and Technical School in September 1965. Both the Technical School and the Junior College are under the supervision of the State Board of Education. The president is directly responsible to the State Board through the Chancellor of the Department of Postsecondary Education. The present designation as a community college was formalized by a State Board of Education resolution of September 23, 1973.

ALABAMA STATE BOARD OF EDUCATION

Governor Don Siegelman	Chairman of the Board, Montgomery
Mr. Bradley Byrne	First District, Mobile
Mr. G.J. Higginbotham	Second District, Opelika
Mrs. Stephanie W. Bell	Third District, Montgomery
Dr. Ethel H. Hall (Vice President of the Board)	Fourth District, Fairfield
Dr. Willie J. Paul	Fifth District, Montgomery
Mr. David F. Byers	Sixth District, Birmingham
Mrs. Sandra Ray	Seventh District, Tuscaloosa
Dr. Mary Jane Caylor	Eighth District, Scottsboro

Dr. Fred Gainous

Chancellor
The Alabama College System

STATEMENT OF VALUES

We, the faculty and staff of Calhoun Community College, are dedicated to making a world-class institution.

First and foremost, we are committed to excellent teaching in a caring and nurturing environment. We believe in the highest quality educational experiences possible through continuous improvement of teaching, support services, equipment and facilities at all locations.

We believe that our students should be able to think critically, make good decisions, be creative, have strong communication and computational skills and possess specific career knowledge. We believe in life-long learning and skills building to stay current, remain globally competitive, and accommodate continuous change.

We are committed to accessibility through flexible scheduling and cost effective programs at convenient locations. We believe in providing educational and training opportunities for diverse clients, including recent high-school graduates, those of non-traditional college age, those with disabilities, and all racial and ethnic groups. Those we serve include local public school students, GED recipients, business, industries and community organizations locally, nationally, and internationally.

We believe in teamwork, innovation, partnerships, rapid responsiveness, customization, and accountability in all that we do.

We believe in a democratic way of life that fosters broad access to educational opportunity and decision-making based on shared governance and vision.

We recognize our colleagues as valuable assets to our excellence.

MISSION STATEMENT

Calhoun Community College, a public comprehensive community college in north central Alabama, seeks to provide accessible quality educational opportunities, promote community and economic development, and enhance the quality of life for those it serves.

CRITICAL SUCCESS FACTORS

COMPREHENSIVE QUALITY PROGRAMS
SATISFACTION AND RETENTION OF STUDENTS
POST EDUCATION SATISFACTION AND SUCCESS
COMMUNITY/REGIONAL/NATIONAL REPUTATION
SOUND, EFFECTIVE RESOURCE DEVELOPMENT/MANAGEMENT
DYNAMIC ORGANIZATIONAL INVOLVEMENT AND DEVELOPMENT

1999-2000 CALENDAR

FALL SEMESTER 1999

Faculty Duty Days — 86
Instructional Days — 80

Registration	Monday, Tuesday	August 16-17
Local Professional Development	Wednesday	August 18
Classes Begin	Thursday	August 19
Holiday/Labor Day	Monday	September 6
Holiday/Veterans' Day	Thursday	November 11
Faculty Duty Day	Wednesday	November 24
Holiday/Thanksgiving	Thursday, Friday	November 25-26
Study Day/Faculty Duty Day	Thursday	December 9
Finals	Friday-Thursday	December 10-16
Grade Reporting/Faculty Duty Day	Friday	December 17

	Faculty Duty Days	Instructional Days
August	12	9
September	21	21
October	21	21
November	19	18
December	13	11
Total	86	80

SPRING SEMESTER 2000

Faculty Duty Days — 89
Instructional Days — 78

Faculty Duty Days	Monday, Tuesday	January 3-4
Registration	Wednesday, Thursday	January 5-6
Local Professional Development	Friday	January 7
Classes Begin	Monday	January 10
Holiday - King	Monday	January 17
Faculty Duty Day	Monday	March 20
Systemwide Professional Development	Tuesday, Wednesday	March 21-24
Spring Break	Monday-Friday	March 27-31
Classes Resume	Monday	April 3
Final Exams	Friday-Thursday	May 5-11
Grade Reporting/Graduation	Friday	May 12

	Faculty Duty Days	Instructional Days
January	20	15
February	21	21
March	18	13
April	20	20
May	10	9
Total	89	78

SUMMER SEMESTER 2000

Faculty Duty Days — 54
Instructional Days — 53

Registration	Wednesday	May 24
Classes Begin	Thursday	May 25
Non-Instructional/Non-duty Day	Monday	May 29
Holiday/Independence Day	Tuesday	July 4
Final Exams	Monday-Wednesday	August 7-9

	Faculty Duty Days	Instructional Days
May	5	4
June	22	22
July	20	20
August	7	7
Total	54	53

Grand Totals Faculty Duty Days and Instructional Days

Semester	Faculty Duty Days	Instructional Days
Fall	86	80
Spring	89	78
Total	175	158
Summer	54	53
Grand Total	229	211

The college will be closed the following nine holidays:

Monday	September 6, 1999	Labor Day
Thursday	November 11, 1999	Veterans' Day
Thursday	November 25, 1999	Thanksgiving Day
Friday	November 26, 1999	Day after Thanksgiving
Thursday	December 23, 1999	for Christmas Eve
Friday	December 24, 1999	for Christmas Day
Friday	December 31, 1999	for New Year's Day
Monday	January 17, 2000	Martin Luther King/Robert E. Lee
Tuesday	July 4, 2000	Independence Day

In addition, the college will be closed the following days:

Monday	December 27, 1999
Tuesday	December 28, 1999
Wednesday	December 29, 1999
Thursday	March 30, 2000
Friday	March 31, 2000

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General Information

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, and phone number are shown below:

Dr. Jo O'Neal
Dean of Student Affairs
Wallace Administration Building, Room A101
P.O. Box 2216
Decatur, Alabama 35609-2216
Phone: (256) 306-2613 or (256) 890-4704
Fax Number: (256) 306-2885
Office Hours: 7:45 a.m. - 4:15 p.m.

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.

EQUITY IN ATHLETICS DISCLOSURE ACT, 1994

Calhoun Community College seeks to comply with the Equity in Athletics Disclosure Act of 1994 (EADA) by making the information listed below available to students, parents, faculty, staff, administration, and the general public.

List of Competing Varsity Teams
Number of Students Participating
Operating Expenses
Number, gender, and salaries of full and part-time coaches and assistants
Annual revenues generated
Amounts spent on sports-related student financial aid and all recruiting expenses for all teams

The Equity in Athletics report will be released on October 15 and updated annually. The report will be available to all concerned in the Office of the Dean of Student Affairs and athletic offices.

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 dismiss any student whose on-or off-campus behavior is considered undesirable or harmful to the college. Consumption or possession of alcoholic beverages or illegal drugs is forbidden

on campus or at any college sponsored functions.

For the protection and convenience of all students and the community, regulations prohibit disorderly conduct on any campus or in the classroom. Students participating in any unauthorized mass demonstration, or whose presence and/or actions constitute or abet a general disturbance, or who fail promptly to obey any order to disperse given by any college official or by a duly constituted law enforcement officer, are subject to immediate suspension from the college. Reasonable quiet shall be maintained at all times in and around the college buildings. Possession of weapons on the campus is prohibited.

The college does not endorse a dress code. However, students, as mature adults, are expected to dress in attire appropriate to educational surroundings. Please do not wear lewd or immodest garments which could disrupt the educational flow and infringe upon the rights of any students.

Students conducting themselves in such a manner as to disturb or disrupt a class will be told by the instructor to leave the classroom. The student may return to class as soon as he/she is capable of conducting himself/herself as a mature adult. However, the second such offense would require the student to meet with the Dean of Student Affairs and could result in charges being brought against the student by the Dean of Student Affairs. Charges against a student must be resolved by a formal due process hearing. (See Student Handbook for due process procedures.)

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 or special programs.

ACADEMIC HONESTY

The primary goal of Calhoun Community College is the promotion of an atmosphere conducive to studying and learning. Those conditions and actions which encourage scholarship are applauded; those conditions and actions which deter or discourage intellectual growth and development are deplored. Without academic honesty, there is no scholarship. Without morality, there is no worthwhile knowledge. Therefore, academic dishonesty is defined as follows at Calhoun Community College:

1. Cheating on an exercise, test, problem, or examination submitted by a student to meet course requirements. Cheating includes the use of unauthorized aids (such as crib sheets, written materials, drawings, lab reports, discarded computer programs, the aid of another instructor on a take-home exam, etc.); copying from another student's work; soliciting, giving, and/or receiving unauthorized aid orally or in writing; or similar action contrary to the principles of academic honesty.
2. Plagiarism on an assigned paper, theme, report, or other material submitted to meet course requirements. Plagiarism is the act of using in one's own work the work of another without indicating that source.
3. Use of texts or papers prepared by commercial or non-commercial agents and submitted as a student's own work.

Charges of academic dishonesty made against a student by a faculty member must follow due process. Faculty members must bring charges in writing to the Dean of Student Affairs. The grade of "F" for academic dishonesty may not be given by the faculty member unless guilt is established through the due process procedure. (See Student Handbook for due process procedures.)

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.

STANDARDS OF CONDUCT AND ENFORCEMENT THEREOF

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

There are legal sanctions on the local, State and Federal levels regarding unlawful use, possession, or distribution of alcoholic beverages and illicit drugs. An outline of these sanctions is currently published in a document titled "Legal Actions Regarding Unlawful Use, Possession, or Distribution of Alcoholic Beverages and Illicit Drugs." Copies of this document can be found in the Albert P. Brewer Library, the Office of the Dean of Student Affairs, and in all counselors' offices at both campuses and at the extension sites.

STUDENT GRIEVANCE PROCEDURES INVOLVING DISCRIMINATION, SEXUAL HARASSMENT, AND RIGHTS OF THE DISABLED

INTRODUCTION

Any student who has a grievance against any other student or 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 the matter with the individual involved. 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 Affairs (WA 201, 306-2613) in order to seek informal resolution to the problem.

In the event that the grievance involving discrimination (Title VI), sexual harassment (Title IX), or violation of the rights of the disabled (Sec. 504) cannot be informally resolved, the formal procedures listed below should be followed. The following procedures attempt to protect the student's right to file a grievance involving discrimination (Title VI), sexual harassment (Title IX), or violation of the rights of the disabled (Sec. 504) against

students or members of Calhoun's faculty, staff or administration, yet providing the right of due process for the accused. Students and members of the Calhoun faculty, staff, or administration are guaranteed procedural due process.

In the event that the Alabama State Board of Education or the Department of Postsecondary Education develops a grievance procedure for the Alabama College System, any portion of Calhoun's grievance procedure which is in conflict with State Board policy shall be severable and superseded by State Board regulations.

- I. Responsibilities of the Dean of Student Affairs
 - A. The Dean of Student Affairs, as the representative of the President of the College, has the responsibility of officially convening the Grievance Committee for the purpose of dealing with acts of discrimination (Title VI), sexual harassment (Title IX), or violation of the rights of the disabled. (Sec. 504) (NOTE: In the event that a grievance is filed against the Dean of Student Affairs, the Affirmative Action Officer shall serve in lieu of the Dean of Student Affairs in the procedural due process outlined.) The Dean of Student Affairs will convene the Grievance Committee only after the following procedures have been implemented.
 1. Grievance charges made by a student must be submitted to the Dean of Student Affairs in writing. The grievance must be signed and as detailed as possible.
 2. The Dean of Student Affairs will notify the student or a member of the Calhoun faculty, staff, or administration of the charge(s) against him/her within five days (excluding Saturday, Sunday, and holidays) of the hearing's conclusion.
 - a. The initial presentation may be verbal.
 - b. The Dean of Student Affairs may suspend the student being charged, or the President of the College or his/her designee may suspend with pay the faculty member, staff member, or administrator being charged until a hearing is held and a decision rendered, if charges so warrant.
 3. The Dean of Student Affairs may then schedule the time and location of the Grievance Committee session.
 4. If the student or member of the Calhoun faculty, staff, or administration who is charged with the grievance so desires, he/she may request a Grievance Committee hearing after initially meeting with the Dean of Student Affairs.
 - B. The Dean of Student Affairs will make all reasonable attempts to notify the student or member of the Calhoun faculty, staff, or administration of the charges against him/her and provide the time, date and location of the Grievance Committee hearing.
 - C. If after a reasonable attempt to notify the student, faculty member, staff member, or administrator of the charges against him/her and of the date, time, and location of the Grievance hearing, and the Dean of Student Affairs is unable to do so, then the Dean of Student Affairs 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 a decision rendered.
 - D. The Dean of Student Affairs and the Vice President of the College will review the decision and recommendation(s) of the Grievance Committee.
 1. The decision of the Grievance Committee shall be official when put into writing by the Vice President of the College and the Dean of Student Affairs.

General Information

2. The Executive Vice President, or the Dean of Student Affairs as deemed appropriate by the President of the College, shall implement the decision of the Grievance Committee.
 3. A copy of the written decision will be forwarded to the President of the College and to the accused within five days (excluding Saturday, Sunday, and holidays) of the hearing's conclusion.
- II. Right of Students, Administrators, Faculty and Staff
- A. A student does not forfeit any of his/her constitutional rights upon his/her admission into Calhoun Community College.
 - B. A faculty member, staff member, or administrator does not forfeit any of his/her constitutional rights upon employment with Calhoun Community College.
 - C. A student or specific class of students who believe they have been subjected to sexual harassment or discrimination prohibited by Title VI, IX, Section 504, of an act or regulation may file a grievance against an individual, as outlined in Part I.
 - D. The accused student, faculty member, staff member, or administrator may be advised by counsel of his/her choice during the Grievance Committee hearing. No more than two counsel per accused may be present during a grievance hearing.
 - E. Refusal by the student, faculty member, staff member, or administrator to answer questions shall not be construed as an admission of guilt.
 - F. The student, faculty member, staff member, or administrator may appeal the decision of the Grievance Committee to the President of The College. (See Section IV for procedure.)
- III. Grievance Committee Composition and Responsibilities
- A. The Grievance Committee shall consist of five members appointed by the Dean of Instruction.
 - B. The nonvoting chairperson shall be the Dean of Student Affairs or his/her designee.
 - C. A quorum shall consist of four members and the chairperson. The hearing may not be conducted without a quorum.
 - D. All Grievance Committee hearings shall be open unless:
 1. The individual(s) charged requests a closed hearing, or the individual(s) complainant requests a closed hearing.
 2. The hearing may be closed by the chairperson should the nature of the hearing question the good name or character of a student, faculty member, staff member or administrator.
 3. If it is construed that campus feelings are so intense that the proceedings could be disrupted.
 - E. The decision reached by the Grievance Committee shall be by a majority vote.
 - F. Decisions and recommendations will be forwarded to the Executive Vice President and Dean of Student Affairs for official confirmation and implementation as noted in Part I D.
 - G. Decisions and recommendations issued by the Grievance Committee shall be implemented within the confines of the laws of the State of Alabama and of the laws of the United States of America.
- IV. Right of Appeal
- A. The President of Calhoun Community College shall be the appeal authority in upholding, rejecting, or modifying the decision and recommendations of the institutional Grievance Committee.
 1. The charged student, faculty member, staff member, or

administrator may file a written request with the Vice President of the College and Dean of Student Affairs requesting that the President of the College review the decision of the Grievance Committee.

2. The written request must be filed within five days (excluding Saturday, Sunday, and holidays) of the hearing's conclusion.
 3. The President of the College shall issue his/her opinion to accept, reject, or modify the decision of the Grievance Committee within five days (excluding Saturday, Sunday, and holidays) of the appeal.
- B. 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 State Board of Education as defined in Section 616, p. 104, 105, of the State Policy and Procedure Manual;
 2. The regional office of the Office for Civil Rights of the U. S. Department of Education within 180 days of the act;
 3. The Equal Employment Opportunity Commission within 180 days of the decision issued by the institution.

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."

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.

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 306-2574 or 306-2911, or you may page security at 552-8239. The Decatur campus security office is located in the octagon building beneath the flagpoles at the main entrance to the campus. Huntsville Police Department officers are located in the Administrative Office at the Huntsville/Cummings Research Park 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. We hope this information is helpful to you. Should you have any questions or suggestions regarding campus safety, please contact Mr. Don Davis at 306-2545.

**Calhoun Community College
Campus Crime Statistical Disclosure Report**

Reported Incidents	Disclosure for Sept. 1, 1995	Disclosure for Sept. 1, 1996	Disclosure for Sept. 1, 1997	Disclosure for Sept. 1, 1998
Murder	0	0	0	0
Rape	0	0	0	0
Sex Offenses:				
Forcible	0	0	0	0
Nonforcible	0	2	1	0
Robbery	1	0	0	0
Aggravated Assault	2	4	3	2
Thefts	4	12	9	2
Motor Vehicle Theft	0	0	0	0
Arrests	1	0	7	3
Liquor Law Violations	0	3	8	2
Drug Violations	0	1	0	0
Weapons Violations	0	0	0	0

STUDENT IDENTIFICATION CARDS

Student class schedules/statements are considered to be student I.D. cards. Student I.D. cards are required of all students enrolled with Calhoun Community College. The I.D. card is issued during registration and is valid each semester of the student's attendance. The I.D. card is used for (1) book buying, (2) issuance of library cards, (3) entrance into college sponsored activities, (4) check cashing, (5) general identification when requested by a school official, and (6) library privileges at colleges in the area.

MOTOR VEHICLE REGISTRATION

All students driving any type of motor vehicle must secure and properly affix an official decal to the vehicle regardless of the location of classes. Parking decals are available from the Campus Police/Security Office. Traffic regulations pertaining to the registration and operation of motor vehicles can result in a monetary fine, the withholding of semester schedules, the withholding of transcripts, or appropriate disciplinary action. All decals expire on August 31 of each year.

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 Building, Decatur campus. Parking appeals at the Huntsville/Cummings Research Park campus should be made to the Dean of Student Affairs at that campus.

ADMISSIONS POLICIES

ADMISSION OF FIRST-TIME COLLEGE STUDENTS

Applicants who have not previously attended a postsecondary institution accredited by a regional accrediting agency or the Council on Occupational Education will be classified as first-time college students or "native" students.

ADMISSION TO COURSES CREDITABLE TOWARD AN ASSOCIATE DEGREE

To be eligible for admission to courses creditable toward an associate degree, a first-time college student must meet one of the following criteria:

1. Applicant holds the Alabama High School Diploma (standard or advanced), the high school diploma of another state equivalent to the Alabama High School Diploma, or an equivalent diploma issued by a non-public regionally and/or state accredited high school; or
2. Applicant holds a high school diploma equivalent to the Alabama High School Diploma (standard or advanced) issued by a non-public high school and has passed the Alabama Public High School Graduation Examination; or
3. Applicant holds a high school diploma equivalent to the Alabama High School Diploma (standard or advanced) and has achieved a minimum ACT composite score of 16 or a total of 790 on the SAT; or
4. Applicant holds the Alabama Occupational Diploma, the high school diploma of another state equivalent to the Alabama Occupational Diploma, or an equivalent diploma issued by a non-public high school, and has achieved a minimum ACT composite score of 16 or a total of 790 on the SAT; or
5. Applicant holds a GED Certificate issued by the appropriate state agency.

Applicants who meet one of these criteria shall be classified as "Degree-Eligible" students. Calhoun Community College may establish additional admission requirements to specific courses or occupational degree programs when student enrollment must be limited or to assure ability to benefit.

ADMISSION TO COURSES NOT CREDITABLE TOWARD AN ASSOCIATE DEGREE

Applicants to courses not creditable toward an associate degree and programs comprised exclusively of courses not creditable to an associate degree may be admitted provided they meet the standard admission criteria or provided they are at least 16 years of age and have not been enrolled in secondary education for at least one calendar year (or upon the recommendation of the local superintendent) and have specifically documented ability to benefit. Non-creditable courses and programs include developmental courses and the programs of Barbering and Cosmetology. Applicants to these courses or programs shall be classified as "Non-Degree Eligible" and shall not be allowed to enroll in courses creditable toward an associate degree.

Calhoun Community College has established higher or additional admission requirements for specific programs or services when student enrollment must be limited or to assure ability to benefit. Applicants who do not hold an acceptable high school diploma or a GED must successfully complete an Ability-to-Benefit Examination to be considered for admission.

General Information

UNCONDITIONAL ADMISSION OF FIRST-TIME COLLEGE STUDENTS

For Unconditional Admission, applicants must have on file at the college a completed application for admission and at least one of the following:

1. An official transcript showing graduation with the Alabama High School Diploma (standard or advanced), the high school diploma of another state equivalent to the Alabama High School Diploma, or an equivalent diploma issued by a non-public regionally and/or state accredited high school; or
2. An official transcript showing graduation from high school with a high school diploma equivalent to the Alabama Public High School Diploma issued by a non-public high school and proof of passage of the Alabama Public High School Graduation Examination; or
3. An official transcript showing graduation from high school with a high school diploma equivalent to the Alabama High School Diploma issued by a non-public high school and evidence of a minimum ACT composite score of 16 or a total score of 790 on the SAT; or
4. An official transcript showing graduation from high school with the Alabama Occupational Diploma, the high school diploma of another state equivalent to the Alabama Occupational Diploma, or an equivalent diploma issued by a non-public high school, and has achieved a minimum ACT composite score of 16 or a total score of 70 on the SAT; or
5. An official GED Certificate.

All male students between the ages of 18 and 26 must show proof of registration with the U.S. Selective Service System in accordance with §36-26-15.1 of the Code of Alabama of 1974 (as amended). For admission to a course not creditable toward an associate degree, applicants with less than a high school diploma or GED must also have on file proof of passage of the Ability to Benefit Examination.

CONDITIONAL ADMISSION OF FIRST-TIME COLLEGE STUDENTS

Provided the applicant meets the admission standards for a first-time college student, a conditional admission may be granted to an applicant who does not have on file at the college at least one of the following:

1. An official transcript showing graduation with the Alabama High School Diploma (standard or advanced), the high school diploma of another state equivalent to the Alabama High School Diploma, or an equivalent diploma issued by a non-public regionally and/or state accredited high school; or
2. An official transcript showing graduation from high school with a high school diploma equivalent to the Alabama High School Diploma issued by a non-public high school and proof of passage of the Alabama Public High School Graduation Examination or a minimum ACT composite score of 16 or a total score of 790 on the SAT; or
3. An official transcript showing graduation from high school with an Alabama Occupational Diploma, a high school diploma of another state equivalent to the Alabama Occupational Diploma, or an equivalent diploma issued by a non-public high school, and has achieved a minimum ACT composite score of 16 or a total score of 790 on the SAT; or
4. An official GED Certificate.

No student shall be allowed to enroll for a second term unless all required admission records have been received by the college prior to registration for the second term. It is the student's responsibility to contact

the appropriate high school and/or agencies and have the official required documents mailed directly to Calhoun Community College.

If all required admission records have not been received by the college prior to issuance of first semester grades, the grades will be reported on the transcript, but the transcript will read CONTINUED ENROLLMENT DENIED PENDING RECEIPT OF ADMISSION RECORDS. This notation will be removed only upon receipt of all required admission records.

ADMISSION OF TRANSFER STUDENTS

An applicant who has previously attended another postsecondary institution which is accredited by a regional accrediting agency or by the Council on Occupational Education accredited postsecondary institution will be considered a transfer student and will be required to furnish official transcripts of all work attempted at all said institutions. Calhoun Community College may also require submission of documents required of first-time college students to verify completion of a high school diploma, a GED, and the required ACT or SAT test scores.

A transfer student who meets requirements for admission to degree creditable courses and programs shall be classified as "degree-eligible." A transfer student who does not meet the admission requirements will not be granted admission to Calhoun Community College.

Applicants who have been suspended from another institution for academic or disciplinary reasons will not be considered for admission except upon written appeal to the College Admissions Committee.

UNCONDITIONAL ADMISSION OF TRANSFER STUDENTS

1. For Unconditional Admission, transfer students must have submitted to the college an application for admission, official transcripts from all required sources, and any other documents required for admission.
2. Transfer students who attend another postsecondary institution and who seek to earn credits for transfer to that parent institution may be admitted to the college as **transient** students. The student must submit an application for admission and a transient letter from the institution they have been attending which certifies that the credits they earn will be accepted as a part of their academic program. Students are not required to submit transcripts since the transient approval letter will serve in lieu of transcripts.
3. Applicants who have completed the baccalaureate degree will be required to submit only the transcript from the institution granting the baccalaureate degree. NOTE: If the student intends to obtain a degree or certificate from Calhoun Community College, transcripts from all institutions must be submitted for evaluation prior to graduation. If the student intends to register for courses requiring prerequisites that have been fulfilled at another institution, transcripts from those institutions must be submitted for evaluation prior to enrolling in those courses at Calhoun Community College.

CONDITIONAL ADMISSION OF TRANSFER STUDENTS

1. Transfer students who do not have on file official transcripts from all postsecondary institutions attended and any additional required documents may be granted a Conditional Admission for one term. No transfer student shall be allowed to enroll for a second semester unless all required admission records have been received by the college prior to registration for the second semester.
2. If all required admission documents are not received by the end of

the first term, continued enrollment will be denied. Grades for the first term will be posted to a transcript and annotated to read CONTINUED ENROLLMENT DENIED PENDING RECEIPT OF ADMISSION RECORDS. This notation will be removed only upon receipt and review of all required admission records.

INITIAL ACADEMIC STATUS OF TRANSFER STUDENTS

1. An initial academic status cannot officially be determined until all official documents are received and reviewed. Once records are received, an initial status will be determined for the student's first term of enrollment. Submission of incorrect or false information on the application for admission could result in immediate removal from the college and forfeiture of all tuition, fees, and other monies.
2. A transfer student whose cumulative grade point average of the transfer institutions is 2.0 or above on a 4.0 scale will be admitted with Clear academic status.
3. A transfer student who cumulative grade point average at the transfer institution is less than a 2.0 on a 4.0 scale but is not on academic suspension/dismissal will be admitted on Academic Probation. The Calhoun transcript will be annotated to read ADMITTED ON ACADEMIC PROBATION.
4. A transfer student applicant who has been academically suspended (dismissed) from another regionally or Council on Occupational Education accredited postsecondary 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 Admission Committee along with all official transcripts. If the transfer student is admitted upon appeal, the student will enter the college on Academic Probation. The Calhoun transcript will read ADMITTED UPON APPEAL – ACADEMIC PROBATION.
5. A transfer student admitted on academic probation retains that status until the student has attempted 12 credit hours at Calhoun Community College. If the student's cumulative GPA at Calhoun is below a 1.5 after the semester in which 12 or more credit hours are attempted, 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 by the Transcript Evaluators in the Admissions and Records Office. Students should complete an Evaluation Request Form and submit it to the Admissions and Records Office. Transfer credit evaluations will only be conducted when all official transcripts have been received. Students will be notified in writing of the results of their evaluation. (Please remember, a review of records by counselors, advisors, faculty, etc. 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. A course completed at other regionally or Council on Occupational Education accredited postsecondary institutions with a passing grade (C minimum required in Composition courses) will be accepted for transfer as potentially creditable toward graduation requirements.

3. A transfer student from a collegiate institution not accredited by the appropriate regional association or Council on Occupational Education may request an evaluation of transfer credits after completing 15 semester hours with a cumulative GPA of 2.0 or above.
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 Composition courses will be not accepted in transfer. Please note that some programs/courses require minimum grades of "C", thus a "D" will not transfer.
5. 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.
6. 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 received transfer credit for such foreign study must provide an English translation and a detailed report from an acceptable foreign credentials evaluation firm. Such a report must outline recommendations for awarding specific credit for specific courses. Currently, most of these reports are "course-by-course" evaluations provided by Educational Credential Evaluators, Inc., P.O. Box 17499, Milwaukee, WI 53217. There are other companies which provide the same service. For further information, contact the International Student Advisor.

INTERNATIONAL STUDENTS—(F-1 VISA HOLDERS)

Calhoun Community College admits only F-1 academic students who meet the necessary academic, linguistic, and financial requirements outlined below:

1. The prospective international student must submit original copies of their Test of English as a Foreign Language (TOEFL) scores to the international student officer of the Admissions and Records Office. A TOEFL score of 500 or better or computer TOEFL of 173 or better is required for admission to Calhoun Community College. The TOEFL is not given at Calhoun Community College.
2. A signed, notarized statement declaring that the international student will be fully responsible for his/her financial obligations while in attendance with Calhoun Community College. This will include off-campus housing. The college does not have campus housing available for international students.
3. Prospective international students must submit official, translated copies of high school or postsecondary school transcripts. Please see item number 6 under general principle of transfer credit.
4. Prospective international students must provide documentation demonstrating adequate health and life insurance which must be maintained during all periods of enrollment with the college. The insurance should include repatriation expenses and medical evacuation expenses.

HIGH SCHOOL HONORS PROGRAMS

Calhoun Community College, in conjunction with our area high schools, offers "honor" students the opportunity to enroll for college coursework. Two programs have been approved by the Alabama State Board of Education, the Accelerated High School Student Program and the

General Information

Dual Enrollment/Dual Credit for High School Student program. Even though the basic criteria for enrollment is similar, each program is unique. Review the following and discuss with your counselor your eligibility and which program best meets your needs.

ACCELERATED HIGH SCHOOL PROGRAM

Calhoun Community College offers qualified high school students the opportunity to earn college credit while still in high school. Students who attend accredited high schools must meet the criteria listed below:

1. The student must have successfully completed the 10th grade;
2. The student must provide certification from the local principal and/or his/her designee that the student has a minimum cumulative "B" average and recommends the student for enrollment;
3. 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 790 on the SAT.

Students who are home schooled are not eligible unless they are under the auspices of an accredited high school and can provide proper documentation of all items noted above.

DUAL ENROLLMENT/DUAL CREDIT FOR HIGH SCHOOL STUDENTS PROGRAM

The Dual Enrollment/Dual Credit for High School Students Program allows qualified students the opportunity to receive both high school credit and college credit. The program is restricted to qualified students in Alabama public and/or regionally accredited high schools who have signed a working agreement with Calhoun Community College.

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

1. The student must have a "B" average in completed high school courses;
2. The student must have written approval of his/her principal and the local superintendent of education; and
3. The student must be in grade 10, 11, or 12.

Determination of the equivalencies of Calhoun Community College coursework toward high school graduation requirements is at the discretion of the high school system. Typically one 3-semester hour course equates to a one-half unit.

For additional and more specific information contact your high school counselor or the admissions officer at Calhoun Community College.

AUDIT STUDENTS

Auditors are students who register for credit courses on essentially a non-credit basis. The college may require complete academic records for any applicant. In the absence of complete academic records, the college may accept as the basis of admission the information provided by the applicant on the regular application form. Auditors will under no circumstances receive credits applicable to degree requirements. Students will not receive punitive grades, but they may be assigned a W for absences or removal from class. 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.

APPLICATION PROCEDURES

Students Entering College for the First Time

1. Applicant must complete an application for admission and submit it in person or by mail to the Admissions Office at Calhoun Community College. Applicants should submit their application as early as possible prior to the semester in which they plan to enroll. Applications may be mailed to the address listed below:

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

2. Applicants must request that the high school from which they graduated mail their official transcript directly to the Admissions Office at the address listed above. Test scores, if applicable, must also be forwarded directly to Admissions.
3. Applicants who hold a GED must have an official GED transcript sent directly to the Admissions Office at the address noted above.
4. Students qualifying for restricted enrollment in non-degree courses must provide official documentation as noted under Admission to Courses Not Creditable to an Associate Degree. Enrollment is restricted to specific certificate programs and developmental courses. Ability to benefit testing is required.

Transfer Students

1. Transfer applicants must complete an application for admission and submit it in person or by mail to the Admissions Office, Calhoun Community College. The application should be submitted as early as possible prior to the semester of intended enrollment. Applications may be mailed to the address listed below:

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

2. All transfer applicants must have official transcripts from all other colleges or universities forwarded directly to Calhoun's Admissions Office at the address noted above. It is the student's responsibility to request his/her official records be forwarded in a prompt and complete manner to clear his/her admission to Calhoun Community College. Transcripts from high school, ACT/SAT test scores or a GED certificate are also required from students who attended a non-regionally accredited college or university.
3. **Alabama Articulation Program (STARS)**
The Alabama Articulation Program (also called **STARS - Statewide Articulation Reporting System**) 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. STARS is an efficient and effective way of providing students, counselors, 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.troyst.edu>. Students who do not have internet access need to visit one of the Advising Centers.

Former Students Applying for Readmission

1. Applicants who previously applied for admission but did not attend are required to submit a new application for admission and provide all required admission records.
2. Students who have not been in attendance for two or more consecutive semesters will be required to complete a readmission application. If the student has been in attendance at another college or university since his/her last enrollment with Calhoun, official transcripts must be requested and forwarded directly to the Admissions Office, Calhoun Community College.

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 must file a written appeal directly to the Director of Admissions for submission to the college Admissions Committee. Appeals for admission should be submitted at least thirty days prior to the intended term of enrollment. Decisions of the Admission Committee are final.

STUDENT RECORDS AND TRANSCRIPTS

I. Official Student Records

Under the provisions of Public Law 93-380, the Family Educational Rights and Privacy Act of 1974 (also known as the "Buckley Amendment") all students and former students of Calhoun Community College have the right to inspect their educational records in the Office of Admissions and Records. This right of inspection does not apply to any information submitted as confidential to the Office of Admissions and Records prior to January 1, 1975, nor to access by students to financial records of parents. Parents or guardians of independent students may not see records nor receive any grades unless the student specifically designates in writing that his/her records and/or grades may be made available to the parents or guardians. Grades are mailed to the address indicated by the student.

Information classified as "Directory Information" may be released by Calhoun Community College unless a student specifically informs the Registrar in writing at the beginning of each semester of his/her desire to be excluded. "Directory Information" includes the following:

- Name, address, telephone listing
- Date and place of birth
- Fields of study
- Participation in officially recognized athletics and other activities, including weight and height of members of athletic teams
- Dates of attendance
- Degrees and awards received
- The most recent educational institution previously attended

Calhoun Community College does not release "Directory Information" unless deemed necessary by the Registrar.

Calhoun Community College may release students' educational records to the following without prior written consent:

- A. College officials who have a legitimate educational interest in the records. If college officials are required in the performance of their duties to review the educational records of a student, this will be considered a legitimate educational interest;
- B. Officials of another school in which the student intends to enroll, upon request of the transfer school;
- C. Government representatives of the Comptroller General of the United States, the Secretary of the Department of Education, the Director of the National Institute of Education, the Assistant Secretary for Education, State Educational authorities and state officials to which such information is specifically required to be reported or disclosed by the State law adopted prior to November 19, 1974;
- D. Appropriate authorities in connection with financial aid, with the understanding that only the necessary records will be released;
- E. Organizations conducting studies for, or on behalf of, Calhoun Community College or its agencies for the purpose of developing, validating, or administering prediction tests; administering student aid programs; and improving instruction and student life, provided that the studies will not permit the personal identification of students and their parents by individuals other than representatives of the organization and provided that the personally identifiable information furnished will be destroyed when no longer needed for the purpose for which the study was conducted;

General Information

- F. To accrediting organizations to carry out their accrediting functions;
- G. To parents of a dependent student as defined in section 152 of the Internal Revenue Code of 1954. College officials may release educational records to parents whose children are dependents as defined under the IRS Code;
- H. To comply with a judicial order or lawfully issued subpoena with the understanding that the student will be notified in advance insofar as possible;
- I. Subpoenas issued by/for a federal grand jury or for law enforcement purposes may require that the student not be notified. Calhoun will comply with non-notification when directed as noted.
- J. To appropriate parties to protect the health and safety of students or other individuals in emergencies with the understanding that only information be released to a party who would be in a position to deal with the emergency, and that the student will be notified insofar as possible of the information released, the purpose for the release, and to whom the information was released.

II. Transcript Policy

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

- A. In compliance with the Family Educational Rights and Privacy Act, Calhoun Community College does not release transcripts of a student's work except upon the student's written request;
- B. Official transcripts are sent to institutions, companies, agencies, etc., upon the student's written release;
- C. Transcript requests are processed as they are received. REQUESTS SHOULD BE MADE AT LEAST TWO WEEKS BEFORE THE TRANSCRIPTS ARE NEEDED;
- D. Transcripts will not be issued for persons who have unmet financial, academic, or administrative obligations to the college;
- E. Written transcript requests should be sent to:

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

Include name, dates of attendance, student number (if known), social security number and address to which transcript should be forwarded. (NOTE: Students with name changes should include all former names.)

- G. 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

TUITION AND FEES

The following information reflects the current tuition and fee schedule enacted by the Alabama State Board of Education.

TUITION

In-State Students	\$ 52.00 per credit hour
Out-of-State	\$104.00 per credit hour

FEES

Technology Fee	\$1.00 per credit hour
Facility Renewal Fee	\$3.00 per credit hour

Students who register after classes begin will be charged a \$25 late registration fee.

NOTE: Tuition and fees are subject to change without prior notice.

TUITION, TECHNOLOGY FEE, INSTRUCTIONAL FEE REFUND POLICY

Before Classes Begin 100% Refund

During Drop/Add

Drops a class or classes but less than total 100% less NRA & ADM
Drops ALL classes during drop/add 75% less NRA & ADM

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% less NRA & ADM
Total withdrawal during second week of classes 50% less NRA & ADM
Total withdrawal during third week of classes 25% less NRA & ADM
Total withdrawal after third week of classes No refund

NRA = non-refundable amount (\$6.50 for part-time, \$12.50 for full-time students).

ADM = Administrative fee (5% of tuition and fees)

Refund checks will be mailed from the Business Office to the student at the address on the official withdrawal form. Approximately three weeks are required for processing.

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. Library fines for overdue books (variable, depending on length of overdue status)
4. 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.

GENERAL EDUCATION DEVELOPMENT (GED) TEST FEE

Those desiring to take the General Education Test at Calhoun Community College will be required to pay a \$20 fee. Contact the Counseling Center at (256) 306-2831, for more information.

BUSINESS OFFICE HOURS (Decatur Campus)

Monday-Thursday	8:00 a.m. - 8:15 p.m.
Friday	8:00 a.m. - 3:00 p.m.

MASTERCARD, VISA, AND DISCOVER

Calhoun Community College accepts Mastercard, Visa, and Discover for payment of tuition, fees, and books.

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 Tuition Eligibility Committee to obtain "in-state" tuition rates. The Tuition Eligibility Committee will determine whether or not a student meets the criteria. The Committee's decision is final. All written appeals should be forwarded with documentation directly to the Registrar at Calhoun Community College.

A. Resident Students

A "resident student" is a person who

1. is a citizen of the United States who has been a legal resident of the State of Alabama for at least one year immediately preceding registration, or whose non-estranged spouse has been a legal resident of the State of Alabama for such period, or (in the case of dependent students) whose parent(s) or legal guardian has been a legal resident of the State of Alabama for such a period; or
2. is a member of the Armed Forces of the United States and officially stationed in Alabama at the time of registration, or whose non-estranged spouse, or (in the case of dependent students) whose parent(s) or legal guardian is a member of the Armed Forces of the United States and officially stationed in Alabama at the time of registration, or who has, or whose non-estranged spouse has, been discharged from the Armed Forces and has formally declared Alabama as his or her state of domicile, or who is a dependent whose parents or legal guardian has been discharged from the Armed Forces and has formally declared Alabama as his or her state of domicile; or
3. currently resides in Alabama and is an "immigrant," that is, a non-citizen admitted for permanent residence who has been issued an Alien Registration Receipt Card by the Immigration and Naturalization Service; or
4. currently resides in Alabama and is a "Parolee," that is, a non-citizen who has been "paroled" into the United States at the discretion of the United States Government and who is issued an "I-94 Card" stamped "Parolee." (Exam-

ples are Cubans and Vietnamese who have left their native countries for political reasons); or

5. currently resides in Alabama and is an "Entrance," that is, a non-citizen who has been allowed into the United States at the discretion of the United States Government and who has not been issued an Alien Registration Receipt Card. (Examples are Cambodian refugees and Haitians.)
- B. Non-Resident Students Eligible for In-State Tuition Rates.
- A student who may be eligible for In-State Tuition rates, whether or not he or she is a resident of Alabama, is one who
1. is a dependent whose parent(s) or legal guardian has taken full-time permanent employment in Alabama; or
 2. is not a dependent but who holds full-time permanent employment in Alabama or whose non-estranged spouse holds permanent full-time employment in Alabama; or
 3. is incarcerated in a State or Federal correctional institution in Alabama; or
 4. is eligible for in-state tuition in a state contiguous to Alabama which has a reciprocal tuition agreement with the State of Alabama Board of Education.

Out-of-state students attending other postsecondary institutions in Alabama may not establish residency for tuition purposes.

II. STUDENTS SUBJECT TO "OUT-OF-STATE" TUITION RATES

Any student who does not fall into one of the categories described above for In-State Tuition eligibility shall be subject to payment of tuition and fees at the "Out-of-State" rate.

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 State Grants (ASG)
2. College Work-Study (CWS)
3. Pell Grants
4. Supplemental Educational Opportunity Grants (SEOG)
5. Veterans', Servicemembers', and their Dependents' Benefits
6. Job Training Partnership Act (JTPA)
7. Scholarships
 - a. Academic
 - b. Athletic Grants-in-aid
 - c. Calhoun Foundation
 - d. Performing Arts
 - e. Senior Adult Program
 - f. Student Activity and Leadership

WHO MAY APPLY FOR FEDERAL FINANCIAL AID PROGRAMS?

Federal Student Financial Aid Programs are Pell Grants, Supplemental Educational Opportunity Grants (SEOG), College Work Study (CWS), Alabama State Grants (ASG), and Job Training Partnership Act (JTPA).

General Information

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

1. Be a U.S. citizen or be from the U.S. Trust Territory of the Pacific Islands, Guam or the Northern Mariana Islands;
2. If you are a man who is at least 18 years old and born after December 31, 1959, be registered for the draft with Selective Service or enlisted in the armed forces;
3. Have financial need;
4. Be enrolled at least half-time;
5. Be working toward a degree or certificate;
6. Be making satisfactory academic progress;
7. Demonstrate the ability to benefit;
8. Not be in default at any institution on any loan or owe a refund on any grant made under Title IV of the Higher Education Act of 1965, as amended.

NO EXCEPTIONS WILL BE MADE TO THE ABOVE REGULATIONS.

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 as well as the capability to process electronically via www.fafsa.org.

Priority in making awards for SEOG and College 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.

STUDENT RESPONSIBILITIES

- 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.
- 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.
- Read and understand all forms that you are asked to sign, and keep copies of them.
- Accept responsibility for all agreements you sign.
- Perform, in a satisfactory manner, the work that is agreed upon in a College 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.

REFUND POLICY

The Student Financial Aid (SFA) refund requirements only apply when the student fails to register for the period of enrollment for which he or she was charged. A refund is defined as the difference between the amount paid towards institutional charges (including financial aid and/or cash paid) and the amount the school can retain under the institutional refund policy.

The institution must calculate a refund using all possible refund policies in accordance with state and federal laws and regulations.

REPAYMENT POLICIES

Recalculation Policy

A change in a student's original enrollment status may result in a recalculation of Title IV benefits. Payment will be based on the student's enrollment status on the first day of the semester. For students who totally withdraw, the institution will use the appropriate refund policy.

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

Repayment Policy

The SFA repayment requirement **does not** apply to a student who withdraws from some classes, but continues to be enrolled in other classes.

A **repayment** is the unearned amount of direct disbursement to a student, which the student must pay back. If the institution determines that the student received Title IV funds in excess of the cost to attend school that he or she could have reasonably incurred while still enrolled, then a portion of the Title IV funds was not earned and must be repaid by the student to the SFA programs.

Federal Work Study (FWS), Federal Community Work Study (FCWS), and Student Loan (SL) funds are **excluded** in the repayment policy.

SATISFACTORY ACADEMIC PROGRESS (SAP)

The academic records of all students receiving federal financial aid are reviewed yearly. Students receiving financial aid are required to be in good standing and maintain satisfactory academic progress.

The academic records of all students are reviewed based on: (1) the number of credit hours attempted and percentage of credit hours completed; (2) cumulative grade point average (GPA); and (3) maximum time frame allowed to complete degree requirements.

Measure of Progress

Hours Attempted	% of Hours to be completed	Cumulative GPA
8 – 21	58%	1.50
22 – 32	62%	1.75
33 – 66	66%	2.00
66 and above	75%	2.00

Note: Letter grades of W, WP, WF, I, IP, and FA are counted as hours attempted.

Maximum Time Frame

Students will not be eligible for aid after carrying 96 credit hours (whether or not they received aid for all terms). A maximum of 20 credit hours of remedial courses will be excluded from the 96 credit hour determination. Title IV funds will **only pay for 20** credit hours of remedial courses. Students taking a course for an Audit (A) credit are not eligible for Title IV funds.

Financial Aid Probation

Students not meeting the SAP requirements will be placed on financial aid probation. Students will be placed on financial aid probation for the following reason:

- Failure to meet the **Measure of Progress** requirements.

During the probationary period the student must enroll and complete at least nine (9) credit hours and receive a grade of a "C" or better in each course enrolled with no Withdrawals (Ws). Grades will be checked at the end of each semester for students on probation.

Students not meeting the above requirements during the probationary period will be suspended from receiving financial aid. The student's recourse at this point is through written appeal to be considered for approval by the Financial Aid Committee.

Appeal Policy

The institution may determine that, due to mitigating circumstances, payment may be made to a student who fails to meet the requirements set forth by the SAP policy or who exceeds 100 credit hours. The student must complete a **Claim of Hardship Form** and submit it to the Student Financial Services office, where it will be forwarded to the Financial Aid Committee for approval or denial. Decisions made by the Financial Aid Committee are final.

INFORMATION ON SPECIFIC FINANCIAL AID PROGRAMS

1. **ALABAMA STATE 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. **COLLEGE 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. Pell Grant applications are required.
3. **PELL GRANT**
The Pell Grant Program provides financial assistance for students who qualify for funds in order to attend a post-secondary educational institution. The grant may not exceed an amount equal to 50% of the student's educational and related expenses. A Pell Grant is not a loan; therefore, the funds do not have to be paid back.
4. **SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT**
The SEOG 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.

5. **VETERANS, SERVICEMEMBERS, AND THEIR DEPENDENTS' BENEFITS**
The Veterans Affairs Office is located in the Financial Services Office on the second floor of the Wallace Administration Building. This office is the certifying authority for veterans, servicemembers, and their dependents and, therefore, serves as the link between the Regional Veterans Affairs Office and the VA benefits recipient who is a student at Calhoun Community College.
6. **The JOB TRAINING PARTNERSHIP ACT (JTPA)** is a federally funded program to provide training assistance to dislocated individuals. Students may qualify for tuition assistance, book allowances, tool assistance and training allowances. Interested persons should apply at their local Alabama State Employment Service. Eligible applications will be sent to the area Assessment Center.
7. **SCHOLARSHIPS AND GRANTS-IN-AID**
 - a. **ACADEMIC SCHOLARSHIPS**
March 15 is the date on which applications for academic scholarships are due. Scholarship applications are available in the Office of Student Financial Services. Each application is reviewed by the Calhoun Scholarship Committee, and each award is based upon academic achievement.
 - b. **ATHLETIC GRANTS-IN-AID**
These grants are awarded to students recruited for intercollegiate sports competition and cheerleading. There are 24 grants made for baseball, 16 each for men's and women's basketball, 24 for women's softball, and 10 for cheerleading.
 - c. **CALHOUN FOUNDATION SCHOLARSHIPS**
The Calhoun 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.
 - d. **PERFORMING ARTS SCHOLARSHIPS**
Performing 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 Division.
 - e. **SENIOR ADULT PROGRAM SCHOLARSHIPS**
This program provides tuition free admission for those who are 60 years of age and 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.

General Information

Fees and other costs, other than tuition, are paid by the senior adult student.

f. STUDENT ACTIVITY AND LEADERSHIP SCHOLARSHIPS

These scholarships are received by:

1. President and Vice-President of the Student Government Association,
2. Editor and assistant editor or photographer of the college newspaper,
3. Head and Co-Head 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.

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 Calhoun Community College. 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 we are located at the Decatur and Huntsville campuses.

BUSINESS HOURS

DECATUR CAMPUS

Monday-Thursday

7:45 a.m.-7:00 p.m.

Friday

7:45 a.m.-3:30 p.m.

HUNTSVILLE CAMPUS

Monday-Thursday

12:00 p.m.-4:00 p.m.

4:30 p.m.-8:00 p.m.

METHOD OF PAYMENT

Payment may be made by either cash, personal check or Master/Visa/Discover card. The following policy governs payment by check:

1. You must present your current student identification card.
2. Checks are accepted for the amount of purchase only.
3. Checks must be made payable to the college (two party checks and counter checks are not acceptable).
4. Phone number, student number and address must be recorded on face of check.

CASH REFUND POLICY

Full refund for textbooks will be granted provided the following conditions are met:

1. Returns MUST be accompanied by Cash Register receipt and drop or withdrawal slip.

2. Books MUST be in NEW condition, free of all markings with pen, pencil and erasers, etc. (used books obviously exempt). The bookstore will make the decision as to the condition of the book.
3. Returns will be accepted only during the first 15 days of the term for which they were purchased. After this period, refunds are considered on an individual basis.
4. Non-required course materials, supplies, clothing, etc. are not returnable.

**Refund policy for purchases paid for by check or charge card will vary from above procedure.

BOOK BUY BACK POLICY

Textbooks may be sold to the Bookstore during final exams at the end of each semester. Book buyback will be conducted during regular business hours. General buyback policy is as follows:

1. You must present your student identification card.
2. All titles will be considered -50% of retail price on current Calhoun titles, Blue Book (wholesale) on all others. This includes overstock, predicted changes and titles not used at Calhoun.
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 Campus Police is located in the octagon building beneath the flagpoles at the main entrance to the Decatur campus. The office is open 24 hours a day. The campus police at the Huntsville/Cummings Research Park campus can be contacted in the Administrative office at that campus. Officers are available whenever classes are in session. Campus police have the responsibility for the following:

1. Assisting students
2. Enforcing traffic and parking regulations
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: 306-2574 or 306-2911

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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

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

Students who have previously attended another college and who will be enrolled for only one semester and then return to the college of original enrollment are considered to be transient students. Students must submit an official letter from the parent institution they have been attending which certifies that the credits earned will be accepted by transfer.

Career, Technical and Occupational

Students follow one of the career, technical, or occupational 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
Three-Fourths Time	9-11
One-Half Time	6-8
Less Than Half Time	5 or less

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

Drop-And-Add Period

The drop and add period will be the first three days of each semester. If a course meets once per week the period will extend to the beginning of the second official class meeting day/evening. 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.

Withdrawals

A student who wishes to withdraw from a course(s) after the drop/add period may do so by having a withdrawal/drop form completed by Admissions/Records personnel or their designated representatives. A student may withdraw from a course(s) until the midpoint of the semester and be assigned the grade of "W" for each course, provided the student has not exceeded allowable absences and the instructor has not submitted an absence form with a grade of "FA".

If a student wishes to withdraw from a course(s) after the midpoint of the semester, but before the last class day prior to the finals, an instructor may assign a grade of "WP" if the student is passing at the time of withdrawal or a "WF" if the student is failing at the time of withdrawal, or an "FA" if the student has exceeded allowable absences.

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)
- AU - Audit
- FA - Failure due to absences
- I - Incomplete
- IP - In Progress
- W - Withdrawal
- WF - Withdrawal Failing
- WP - Withdrawal Passing

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, WP, and WF are letter grades assigned when a student withdraws from a course/courses after the designated drop/add period and may be reflective of the student's status at the time of withdrawal. The grade of W is assigned to a student who officially withdraws from a course(s) by the date designated as the midpoint of the term, provided they have not been previously dropped for excessive absences. The grade of WP may be assigned after the midpoint of the term and indicates the student is passing the course at the time of withdrawal. The grade of WF may be assigned after the midpoint of the term and indicates the student is failing at the time of withdrawal. The WF is punitive and will be calculated as an F in the grade point average. Any withdrawal after the midpoint of the term must have the approval of the Dean of Instruction or his/her designated representative. Withdrawal from course(s)/program(s) should be initiated by the student. Students must notify the Office of the Registrar of his/her intent to withdraw from a course, courses, or programs.

FA as a letter grade indicates failure due to absences. An "FA" is assigned when a student exceeds the maximum number of absences allowed in a course/program. An FA is punitive and is calculated as an F in the grade point average.

I as a letter grade indicates incomplete completion 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 only awarded 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 of Instruction has approved the student take his/her final examination late. Other circumstances as approved by the instructor and/or Dean of Instruction may be granted.

General Information

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 institutional 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.

Grade Points

A student's academic standing or grade point average 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
FA	0	grade points per hour
WF	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, F, FA, or WF are assigned. Marks of W, WP, I, 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 accepted for graduation in order to be eligible for graduation from Calhoun.

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 have been made by students and faculty to resolve grade appeals and have failed should a formal procedure be initiated. It is self-evident that an appeal should be resolved as close to the beginning of the institution's organizational chart as possible; it is further self-evident that grade appeals be handled informally through discussion if at all possible.

There is no appeal procedure if six months of calendar time has 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 five 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 five weeks of the succeeding term. (The summer term may be excluded.)

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

A student may appeal the final grade received for a course by following the procedures outlined here. Therefore, 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 Department or Division Chairperson 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 Division or Department Chairperson 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 Department or Division Chairperson. This writing must be dated and filed with the appropriate person prior to the midpoint of the succeeding semester. (The summer term is excluded from the definition of "succeeding semester" except in cases when the instructor who assigned the grade is teaching during the summer term.) 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 Department or Division Chairperson, the 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 division chair. 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 it should not hear the appeal, the Chairperson shall so advise the Dean of Instruction. 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 Dean of Instruction 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 Dean of Instruction at the Dean's discretion to discuss actions, deliberations, and recommendations.
5. The Dean of Instruction 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 Dean of Instruction is final. (CCC)

- B. Procedure for appealing a final grade after the first five 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 undertaken at Calhoun may be repeated at Calhoun. The last grade earned excluding W, WP, 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, WP, 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 will denote a course repeat and deletion of the hours attempted. Please remember that 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 follow:

- 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 period and may not be changed thereafter. 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. Nursing students who audit a course do not attend extended clinical labs.
- D. The cost of auditing a course is the same as for taking a course for credit.

MAJOR FIELD OF STUDY CHANGES

Request for a change of major 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 major—transferability of courses completed, new requirements for graduation, job potential, etc. Students should confer with an advisor prior to initiating a change of major.

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:
 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 taken 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 taken 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 term "ACADEMIC BANKRUPTCY" will be noted on the transcript for each semester affected. When academic bankruptcy is declared, the transcript will reflect the semester of its implementation and the transcript will be stamped "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.

General Information

This determination will be made by the respective transfer institution(s).

Student Course Overloads

A full-time student must be enrolled for 12 semester hours or more each term. Students may register for more than 19 semester hours only with the written permission of the Dean of Instruction. To be considered for an overload, the student should meet the following conditions:

1. Have completed a minimum of 18 semester hours with Calhoun; and
2. have a minimum of a 3.0 GPA.

No more than two laboratory courses will be approved as part of an overload request.

ADVANCED STANDING CREDIT

Credit by Transfer

Refer to General Principles for Transfer of Credit on page 13.

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.

A maximum of 30 semester hours earned through nontraditional methods may be applied toward 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 on both general examinations and subject examinations is required for specific course credit.

Students scores at the 50th percentile or above may be awarded specific course credit as well as some elective course credit. Students whose scores are less than the 50th percentile, but are equal to or greater than the 35th percentile, may be awarded elective credit only through the general examinations.

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 ten hours of composition or the five hours of literature.

Credit through GENERAL EXAMINATIONS is granted only if the exams were taken before entering college or during the first semester, provided the student has not been enrolled in a comparable course for more than one week.

GENERAL EXAMINATIONS (50th Percentile)

50th Percentile Examinations	Course Equivalencies Score and Credit Awarded
English.....494	ENG 101 and Elec.....6 sem. hrs.
Humanities.....489	ENG or American Lit.....3 sem. hrs.
Natural Sciences.....489	BIO 103 or PHS 111.....4 sem. hrs.
Social Science.....488	W Civ or Amer History.....3 sem. hrs.

Credit for SUBJECT EXAMINATIONS is 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 supercede the CLEP General Exam, credits will not be awarded for the Subject and General Exam in the same discipline. Any exception to this policy must have prior approval from the Dean of Instruction.

CLEP SUBJECT EXAMINATIONS

Examination	Score	CCC Equivalent	Sem. Hrs.
<u>Business</u>			
Accounting, Intro.....50		BUS 241-242.....6	
Information Systems and Computer Applications.....50		CIS 130.....3	
Management, Prin.....47		BUS 275.....3	
Marketing, Prin.....50		BUS 285.....3	
<u>Composition and Literature</u>			
American Literature.....50		ENG 251-252.....6	
Freshman College Composition.....51		ENG 101-102.....6	
English Literature.....49		ENG 261-262.....6	
<u>Science and Mathematics</u>			
Biology.....49		BIO 103.....4	
Calculus with Elem. Functions.....49		MTH 125.....4	
Chemistry.....50		CHM 111-112.....8	
College Algebra/ Trig.....50		MTH 113.....3	
<u>Social Sciences</u>			
American History I.....50		HIS 201.....3	
American History II.....50		HIS 202.....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	
Western Civilization I.....50		HIS 101.....3	
Western Civilization II.....50		HIS 102.....3	

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.

POLICE ACADEMY WORK

Credit may be available for completion of approved Peace Officer Training Courses/Programs. Consult the head of the Law Enforcement Program or the Registrar for information.

SPECIALIZED MILITARY TRAINING

Calhoun adheres to policies prescribed by the Guide to the Evaluation of

Educational Experiences in the Armed Services 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 of 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. A maximum of 18 credits may be earned through the AP Program.

CAREER MOBILITY FOR PRACTICAL NURSES

Thirteen semester hours of nursing credit may be earned by challenge examination. See Nursing-Career Mobility under College Program section of this CATALOG for program entry requirement.

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 and specific written credit recommendations made and approved by the Dean of Instruction.
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.

ADVANCED PLACEMENT VIA TECH PREP ARTICULATION AGREEMENTS

Please refer to the Tech Prep section of this catalog for additional information.

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. 23-32 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 POLICIES

Class attendance policies are formulated by the respective departments for each course. Attendance policies are in effect from the first time a class meets. Classes missed due to late enrollment will be considered absences. Students whose unexcused absences exceed the maximum set for a course will be dropped from the class roll and will receive a grade of "FA" for the course. Appeals are made at the divisional level to the chairperson who will determine the form and substance of the appeal process. The student is responsible for class activities missed during any absence, whether excused or unexcused.

Regardless of the departmental policy, unexcused absences which constitute twice the number of weekly class meetings is the institutional maximum. Military personnel who are involuntarily called to active duty for unscheduled and/or emergency situations and those individuals called for court duty will be excused. Official documentation verifying obligations of this nature will be required. Other excused absences are decided by the instructor, who may use the following reasons in determining excused absences: illness, death in the immediate family, military obligations, transportation difficulties, and official school business.

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 of Instruction. 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 of Instruction.

General Information

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.

GRADUATION

Calhoun Community College awards the Associate in Arts, the Associate in Science, and the Associate in Applied Science Degrees, and Certificates for non-degree programs.

DEGREES

The **Associate of Arts Degree** is awarded to students who complete a planned university parallel program and the General Education Minimum Requirements for the Associate in Arts Degree as outlined in this catalog.

The **Associate of Science Degree** is awarded to students who complete a planned program in a specific field or area of concentration. A majority of the Associate of Science Degree Programs are designed for those students who plan to transfer to four-year institutions and pursue programs of study requiring specialization on the freshman and sophomore levels. However, certain Associate of Science Degree Programs are intended as two-year career-level programs.

The **Associate of Applied Science Degree** is awarded to students who satisfy the requirements of a specific career, technical, or occupational degree program as outlined in this catalog.

Degree Requirements

1. Determine degree requirements from catalog. (Students who have enjoyed an extended stay at Calhoun due to various circumstances may elect either to meet curriculum requirements specified in the original catalog in effect when they entered, provided courses and programs are still available, or they may elect to meet curriculum requirements listed in the catalog in effect at the time they apply for graduation. Exceptions to the catalog of entry rule or catalog in effect at the time of graduation must be approved by the Registrar.)
2. Complete 60 - 64 semester hours of college credit work in planned program of study. (Courses considered as developmental will not apply to degree requirements.)
3. Earn a minimum grade point average of 2.00 in all courses taken for graduation.



4. Complete at least 16 semester hours at Calhoun Community College.
5. Be enrolled during the semester the degree is earned; or with the approval of the Dean of Instruction, a student may graduate if, within a calendar year of the last semester of attendance, he/she transfers to Calhoun no more than 6 credit hours required for completion of the program. A minimum grade of "C" is required in the courses transferred.
6. Submit an application for graduation to the Office of Admissions and Records at least one semester before graduation. Submit appropriate graduation fee to Business Office.
7. Clear all procedural, operational, and financial obligations to the college.

NOTE: Due to federal regulations students completing an A.A.S. degree **must** complete the EXIT Examination during their last semester and prior to the awarding of the degree.

CERTIFICATES

Certificates are awarded to those students who successfully complete the designated requirements in career programs. Students earning a certificate must complete the EXIT examination prior to the awarding of the certificate.

HONOR GRADUATES

To graduate with honor, a student must maintain the following quality point average on all college level course work considered for degree requirements.

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

VISITING STUDENT PROGRAM

A cooperative arrangement exists with Alabama A & M University, Athens State University, Oakwood College, 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 dependent upon availability of space for the visitor after its own students are accommodated.

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

NOTE: Enrollment in courses is subject to appropriate prerequisite and/or placement testing.

LIBRARY SERVICES

www.calhoun.cc.al.us/library

Brewer Library

The primary purpose of the Albert P. Brewer Library, located on the Decatur Campus, is to *put information in the hands of users*. From resources housed in the Library to global access to information on the World Wide Web, Brewer Library aims to serve the Calhoun community. Books, magazines, journals, newspapers, CD-ROM databases, video tapes, reserve shelf, and vertical file materials are maintained within the Library. Computers provide access to global electronic resources through the Internet and the World Wide Web.

Networked computers within Brewer Library, as well as networked computers in faculty and staff offices and laboratories on the Decatur and Research Park campuses, provide users with access to an online encyclopedia, *Britannica Online*, an online dictionary, *Merriam-Webster 10th Collegiate Dictionary*, and an online index to magazines and journals, *Academic Search Full-TEXT Elite*. Hundreds of journals offer the full-text articles which can be printed, downloaded to a diskette, or e-mailed. All online resources are accessible from campus networked computers, Decatur and Research Park, via the Calhoun Library Home Page.

In addition, the *Academic Search Full-TEXT Elite*, the index to 3000 journals, many with full-text articles, is available to Calhoun students and faculty from home or office with a username and password. Information for remote access can be found on the Calhoun Libraries Home Page at www.calhoun.cc.al.us/library.

Telecourse (CBC) video and audio tapes are prepared by Media Services staff and available at the Library circulation desk for check-out by students enrolled in CBC courses. An extensive collection of educational video tapes housed in Media Services is made available campus wide for viewing on demand in classrooms, laboratories, library study carrels, and hyperlecturing classrooms via the closed circuit campus television system.

Brewer Library has been a member of the Library Management Network, Inc. (LMN) since 1984. As a member of LMN, public access catalogs

(OPACs) enable users to search and locate books in the collections of area libraries as well as the Brewer Library. Interlibrary loan is provided by the circulation staff to students, faculty, and staff who want to borrow a book located in an LMN library. Distance learners can access the same OPAC via the World Wide Web at URL: <http://www.lmn.lib.al.us> or from the Calhoun home page.

Reciprocal borrowing privileges for Calhoun students are available at the libraries of Athens State University and Alabama A&M University. The UAH Library charges a \$10 annual fee for the checkout of materials. All three libraries require the presentation of a valid Calhoun ID card.

Brewer Library services culminate in reference help provided by librarians. Point-of-use instruction, personal assistance in conducting library research, and traditional reference services are available. Students enrolled in English 101 are given instruction in the use of Library resources.

For more information on Calhoun Library Services please call the Information Services Librarian at 256-306-2777.

For Library *Hours* call the circulation desk at **256-306-2774** or check the Calhoun Library Home Page.

Learning Resources Center

A Learning Resources Center was opened in June 1998, at the Huntsville Campus, Research Park. Spacious surroundings house comfortable seating for study and reading.

A host of computers offer access to electronic information, and study carrels provide network access for the student to bring his/her own laptop and link to the online resources via the WWW.

The LRC is primarily an electronic resource center and is not meant to duplicate the holdings of the Brewer Library on the Decatur Campus. The online catalog displays the holdings in the Library, as well as the holdings of the remaining sixteen Library Management Network libraries. Books are requested via interlibrary loan from Brewer Library and delivered daily by the courier to the LRC.

While the collection of paper magazines, journals, and newspapers for browsing is small in number, online indexes provide close to 2000 full-text titles. Articles may be downloaded to diskette, printed from networked printers, or e-mailed. These online indexes with full-text articles are available to Calhoun students and faculty remotely from home or office via a personal Internet account.

An online encyclopedia and dictionary provide current information and links to more than 130,000 approved sites on the WWW. A *Virtual Reference Desk* of WWW sites offers general reference sources such as dictionaries, directories, etc. as well as information by subject.

A small collection of books and magazines about the subject of Human Resources is provided by the North Alabama Chapter of Human Resources Management and housed at the LRC. This collection is processed and maintained by the Library/LRC staff and available for use within the LRC by Calhoun students and faculty.

College-by-Cassette video and audiotapes are available for checkout at the LRC Circulation Desk for students who are enrolled in distance learning courses. CBC video Information Sessions, provided by some instructors for some courses, are available at the LRC for viewing. LRC faculty offers library instruction to English 101 classes as well.

General Information



The Center for the Study of Southern Political Culture, located within the LRC, is an archive for political memorabilia and articles of interest collected and contributed by the community. Dr. Waymon Burke, history instructor, is the Center's archivist.

For LRC hours call the circulation desk at 256-890-4774 or check the Calhoun Library Home Page.

CHILD DEVELOPMENT CENTER

Calhoun Community College provides through a Child Development Center high quality education and child care to children of Calhoun students and faculty within the Calhoun service area. A fee for service is required.

STUDENT AFFAIRS

PHILOSOPHY

The belief of each member of the Student Affairs staff at Calhoun Community College is that all people should have the opportunity to reach their maximum potential. Dedicated to this belief are the functions which comprise Student Affairs: Admissions and Records; Advising Services; Athletics and Intramural Sports; Career Services; Counseling Services; Judicial Services; Services for Persons with Disabilities; Displaced Homemakers/Gender Equity; Minority Student Affairs; Upward Bound; Vocational Education Counseling; Student Activities/Student Center; Student Orientation; Student Recruitment; and Testing Services.

The message from the Student Affairs Division to students and area residents is, "Calhoun cares about you." The following explain how Student Affairs programs work.

STUDENT SERVICES

ADVISING CENTERS

Academic advising for students at Calhoun Community College occurs in the Advising Center. The Centers are located on the second floor of the Chasteen Student Center at the Decatur campus and at the Huntsville/Research Park campus. The Center is staffed by counselors and academic advisors. Advisors receive training in all areas of academic advising including admissions and records, financial aid, placement testing, computer training, interpersonal/communication skills, and program/scheduling.

Incoming students meet with Advising Center personnel prior to or during their initial semester. Subsequently, students with declared majors are advised within academic departments. Students who have not declared a major, who are changing majors, or who choose for personal reasons to do so, continue to be advised through the Advising Center.

CAREER SERVICES

The Career Services Center, located on the second floor of the Chasteen Student Center, provides career information for all interested community residents as well as all Calhoun Community College students. This information includes career interest inventories, career guidance, career information, educational information, and job search skills information. There is also a unique computerized system which provides information about career and educational opportunities. All of these services are provided free of charge to all interested persons. An appointment may be necessary.

The Job Placement service is available only for Calhoun students or alumni. Assistance is available for those seeking part-time, full-time, or summer employment. Many area businesses and industries contact the Career Services Center concerning their employment needs. Employers from other areas are encouraged to recruit on our campus to interview students in various disciplines.

COUNSELING SERVICES

Counseling Services are located on the second floor of the Chasteen Student Center, the Huntsville Research Park campus, and the Redstone Arsenal site. The goal of Counseling Services is to foster the growth and development of each student as a unique individual. Counseling Services are limited and will serve as a resource point for community referral agencies.

EMERGENCIES

In case of medical emergencies, the college's Security/Police Department will have the student, at his/her expense, transported by ambulance to a nearby emergency room for treatment.

HIGH SCHOOL SCHOLARS' BOWL PROGRAM

Calhoun sponsors a Scholars' Bowl for area high schools. Teams from schools in each division compete in a round robin competition, answering questions from a wide variety of fields and disciplines.

MINORITY STUDENT AFFAIRS

Calhoun Community College has established a central office to coordinate matters pertaining specifically to the needs, problems, and/or concerns of minority students at Calhoun. Persons desiring information or assistance are invited to contact this office. Directed by a full-time counselor and college administrator, the office is located on the second floor of the Chasteen Student Center.

ORIENTATION TO COLLEGE - PSY 100

Orientation to College (PSY 100) is taught by Student Affairs personnel and serves to introduce the beginning student to college life. The student will become aware of college policies and procedures; be given a chance for objective introspection; and be provided assistance in the selection of a career and in the improvement of job search skills. Student Orientation is designed to benefit all students. This course is required for all students placing in at least two developmental areas on the placement exam.

PRE-ADMISSION SERVICES - STUDENT RECRUITMENT

The Pre-admission Services personnel's major function is the recruitment of students. Calhoun representatives provide information to prospective students through various off-campus visitation programs. In addition, the Pre-admission Services personnel arrange campus-wide tours and other recruiting activities. Contact Admissions and Records for additional information.

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. Any student or employee who desires information about or assistance in arranging needed services for a disabling condition should contact Mrs. Virginia Smith, Services for Persons with Disabilities, Chasteen Student Center, (256) 306-2633.

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 Officer.

STUDENT GOVERNMENT ASSOCIATION

The SGA is active student self-government. Its purpose is 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 College Council, College Cabinet, Discipline Committee, and the Parking/Traffic Appeals Committee, as well as other special appointments. Calhoun's College Council consists of all full-time faculty, counselors, librarians, and administrators; selected representatives of the part-time faculty; and members of the Support Personnel Council and SGA. The College Cabinet consists of elected representatives from the above groups and serves as the executive group for the College Council. 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 office of the SGA is located in the Chasteen Student Center, with regular hours maintained by the student government officials. All students are urged to meet with their representatives and to take an active part in the affairs of the student government.

STUDENT ORGANIZATIONS AND CLUBS

Campus Organizations

Student Government Association
College Daze (Student Newspaper)
Warhawk Hosts and Hostesses

Clubs

Allied Health Students Assn.
BACCHUS/SADD
Black Students' Alliance Club
Campus Ministries
The Centurions
Collegiate Secretaries International
Criminal Justice Club
Dental Assistants Club
Drama Club
Fellowship of Christian Athletes
MENC (Music Club)
Native American Club
Nursing Students Association
Paralegal Association
Phi Theta Kappa
Vocational and Industrial Clubs of America (VICA)

TESTING SERVICES

Testing is a Student Affairs function composed of the following:

Placement Testing

All students are required to complete a Placement Test in English and mathematics prior to registering for a course in these disciplines (see exemptions below). The placement test is administered on a regular schedule throughout each semester at the Decatur campus, at the Huntsville/Research Park campus, and at Redstone Arsenal. No fee is charged for this test. Students should contact the Advising Center, the Admissions Office, the Huntsville/Research Park campus or Redstone extension site to receive information about the test schedule. Federal regulations require that students earning certificates or A.A.S. degrees must also complete an EXIT examination.

Exemptions

Any student who has graduated from high school within the last two years and has his/her SAT or ACT reports on file with Calhoun may be exempt from the placement testing requirement if the following minimum scores are met: 480 SAT verbal, 526 SAT math or 20 ACT English or 20 ACT math.

GED - High School Equivalency Test

Calhoun is a testing center for the GED test of high school equivalency. The GED is administered approximately two times each month throughout the year. Persons desiring to take the GED must be at least 18 years old, may not be enrolled in regular or secondary school, and must meet Alabama residency requirements. Applicants 17 years of age or older may take the GED if they have been out of school for 12 consecutive months, which must be documented on an E-2 form (form may be obtained from the Student Services Center). This test is administered only on the Decatur campus and a fee is charged. Contact the Student Services Center for additional information.

General Information

TUTORIAL PROGRAM

Free tutorial services may be available for qualified students through Veterans' Services and/or the Center for Educational Excellence. Contact the Student Services Center, second floor Chasteen Student Center, to receive additional information.

UPWARD BOUND

Upward Bound is a federally funded program designed to encourage high school students to complete their secondary education and pursue higher education. Sixty high school students from Lawrence County are selected to participate in this program.

The Upward Bound Program provides free tutorial services, personal and academic counseling, cultural opportunities, college visitations, and enrichment classes throughout the school year and during a six week period in the summer. Seniors in the program may also attend regular summer school classes at Calhoun Community College free of charge the summer immediately after graduation from high school. They are eligible to take a full load of classes at no cost for tuition.

Lawrence County students in grades 9-12 may be eligible to take advantage of opportunities available through Upward Bound. To be selected, students must have an interest in attending college, and/or be a first generation college student or from a low income family.

VOCATIONAL EDUCATION COUNSELING PROGRAM

The Vocational Education Counseling Program is a federal program made available by a grant from the U.S. Department of Postsecondary Education and is designed to enhance the success rate of students who are disabled, academically disadvantaged, or economically disadvantaged.

Services provided by this grant include personal counseling, financial aid counseling, academic advising, and advising in the area of career planning, tutorial assistance, and other college services. Additional benefits provided by the grant include use of a Book Loan Library, accessibility/physical accommodations, assistance with purchasing special materials or equipment, and an equipment checkout program which includes such items as word processors, tape recorders, spell checkers, and calculators. Eligible students include those with a disability, in academic trouble, or in financial distress and on a financial assistance program such as Pell Grant, Rehab, JTPA, Displaced Homemaker, Food Stamp Program, etc. They must be pursuing studies in the area of vocational education.

The Vocational Education Counselor is Ms. Chrystal Jones. Her office is located on the second floor of the Chasteen Student Center.



SPECIAL PROGRAMS

ADULT BASIC EDUCATION

This program offers adults who have not completed high school the opportunity to improve their academic skills. Instruction is on an individualized basis, and each participant begins by taking a diagnostic test to determine his/her individual need. The student and instructor design a program to help reach the student's goals. A student may begin study at any level from the most basic reading to preparation for taking the high school equivalency test or GED. Contact Richard Pace at 256/306-2831.

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 basis (a minimum of 20 hours per week) in a job directly related to his/her academic major while attending school on a full-time basis. Under the Alternating Plan, students alternate semesters of study at Calhoun with semesters of full-time work in business/industry.

Requirements

Participation in the Cooperative Education Program is open to students who maintain an overall 2.0 grade point average, a 3.0 grade point average in subjects directly related to the major area of study and have completed one full semester (12 semester hours) at Calhoun.

Application Procedures

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

1. Submit an "Application for Cooperative Program" form which may be obtained from the Cooperative Education Office;
2. Provide a Calhoun Community College transcript and current class schedule;
3. Be recommended in writing by an instructor in his/her major;
4. Contact the Cooperative Education office for an appointment.

SERVICEMEMBER'S OPPORTUNITY COLLEGE

Calhoun has been designated as an institutional member of Servicemembers Opportunity Colleges (SOC), a group of over 400 colleges and universities providing voluntary postsecondary education to members of the military throughout the world. As an SOC member, Calhoun recognizes the unique nature of the military lifestyle and has committed itself to easing the transfer of relevant course credits, providing flexible academic residency requirements, and crediting learning from appropriate military training and experiences. SOC has been developed jointly by educational representatives of each of the Armed Services, the Office of the Secretary of Defense and a consortium of thirteen leading national higher education associations; it is sponsored by the American Association of State Colleges and Universities (AASCU) and the American Association of Community Colleges (AACC).

SERVICEMEMBERS OPPORTUNITY COLLEGES ASSOCIATE DEGREE

In addition to its SOC membership, Calhoun is one of approximately 50 institutions providing occupational and flexible SOCAD programs on over 200 Army installations worldwide. These programs lead to associate degrees, and most of them correspond to enlisted and warrant officer job specialties. Through prior agreement, students in SOCAD programs:

- have a residency credit limited to 1/4 of total degree requirements taken at any time;
- are awarded credit for experience in their military occupational specialty (MOS) and service schools as appropriate to their program;
- are awarded credit for non-traditional learning based on results of national tests, such as CLEP and SSTs, as appropriate to their program;
- have a SOCAD Student Agreement completed as their official evaluation stating remaining degree requirements and eliminating the need for reevaluating of previous credit; and
- are guaranteed that courses listed in transferability charts in the SOCAD Handbook will be accepted for degree requirements within each curriculum area.

Calhoun accepts eligible family members as SOCAD students.

TECH PREP

Tech Prep is a program of study designed to prepare students for today's technologically demanding workplace. **Tech Prep** is a blending of both challenging technical training and applied academic courses in mathematics, science, and communications. The **Tech Prep** program involves four (4) years of study in high school, followed by two (2) years of post-secondary education.

Calhoun Community College is a member of the "Technologies 2000" **Tech Prep** consortium with Athens City Schools, Decatur City Schools, Hartselle City Schools, Limestone County Schools and Morgan County Schools.

Articulation agreements, which award college credit for identified high school coursework completed under the **Tech Prep** program, have been established in the areas of technology, business, and computer information systems. Calhoun Community College will be working with the high schools in the consortium, as well as with schools in Lawrence and Madison counties, in developing additional articulation agreements in these and other areas.

If you are interested in more information about **Tech Prep**, contact Dr. Mary M. Yarbrough, "Technologies 2000" Consortium Director, located in the Business Center, Room 120G, 256/306-2671.

DISTANCE EDUCATION

Distance Education is the use of technology to provide instruction to students who desire to learn outside the regular classroom; it is a way of taking college credit courses in your home or community. Distance Education courses combine academic quality, rigorous challenge, and **convenience**. Calhoun offers a variety of courses for the distance learner. Distance Education at Calhoun includes three instructional technologies: college by



cassette, compact disc (CD), or web-based internet. In College by Cassette and College by Compact Disk (CD), students register for the course and receive instruction on pre-recorded video tapes, compact disk, or a combination of these technologies. Internet courses require that students access the World Wide Web from their home or work. Students needing more information about Distance Education should contact the Dean of Instruction's Office, (256) 306-2619.

WEEKEND COLLEGE

Weekend Colleges is available on the Huntsville campus. Most classes meet on Friday nights and on Saturday mornings and Sunday afternoons. For more information regarding Weekend classes in Huntsville, call 890-4700. The semester schedule includes all weekend course offerings.

CAMPUS SITE INFORMATION

DECATUR CAMPUS

Calhoun's Decatur campus offers classes from 8:00 a.m. until 10:00 p.m., Monday through Thursday, and 8:00 a.m. - 4:00 p.m. Friday. Most student support offices are open from 7:45 a.m. until 6:30 p.m., Monday through Thursday, and 7:45 a.m. - 4:00 p.m. Friday. The Decatur campus includes classrooms; Brewer Library; labs for technologies, sciences, and allied health; a variety of athletic facilities and the Wellness Center. Directions and information are available 24 hours a day at the Security Building, located at the main entrance on the Decatur campus.

Evening classes are available for students who have special scheduling needs or 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.

General Information

HUNTSVILLE/RESEARCH PARK CAMPUS

For students who wish to take Calhoun classes in the Huntsville area, Calhoun offers courses each semester at its Huntsville location in Cummings Research Park at 102 Wynn Dr. The Huntsville campus provides evening classes in most general education subjects. Teaching commences at 4:00 p.m. Classes are offered on Monday-Wednesday, Tuesday-Thursday or one day a week schedules. Classes also are available for students wishing to take classes during their lunch hour. Students wishing further information about classes available at the Huntsville campus should call 890-4700. Huntsville campus offices are open Monday - Thursday, 8:00 a.m. - 8:30 p.m. and Friday, 8:00 a.m. - 4:00 p.m.

REDSTONE ARSENAL SITE

Calhoun primarily serves military personnel, active and retired; their dependents; Department of Defense personnel; NASA employees; and contract personnel through its Redstone Arsenal Site, AMSI-PT-ED-CA, Redstone Arsenal, AL 35898. Other students are admitted on a space available basis. Evening classes and a limited number of day classes are typically taught at Redstone. For the convenience of the military, most classes are offered on an eight-week cycle (minimesters). The minimesters are scheduled within the semester system; two minimesters during fall, two minimesters during spring, and one minimester for the summer term. Two classes per minimester will allow 30 semester hours per year and a possible degree within two years and one extra minimester. Office hours are 8:00 a.m. until 10:00 p.m., Monday through Thursday. The Redstone office telephone number is 256-876-7431.

LIMESTONE CORRECTIONAL FACILITY SITE

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 Auto Body Repair, Auto Mechanics, Carpentry, Design Drafting, Horticulture, Masonry, Upholstery, and Welding. Also, courses are offered toward the GED test. For further information about the Limestone Correctional Facility programs, contact the Director for LCF Calhoun, 306-2617 or 216-2207.

ARTICULATION AGREEMENTS

In order to benefit Calhoun Community College students with the transferring of courses to other institutions of higher education in the state, Calhoun has entered into articulation agreements with the following colleges:

Alabama A&M University
Alabama State University
Athens State University
The University of Alabama, College of Engineering
The University of North Alabama
Wallace State Community College, Health Education

For more information, contact the Instructional Dean's Office (306-2616).

BUSINESS AND INDUSTRY SERVICES

Business and Industry Services (BIS) serves as a focal point for commerce and industry seeking education and training. BIS also will assist in developing courses or programs specific to individual organizational needs.

Examples of these educational and training services are:

- apprenticeships
- computer literacy and software applications
- consultant services and training on safety matters
- customized courses to meet specific needs
- industrial maintenance
- personalized, in-plant management skills
- quality control
- seminars on specific management problems
- specialized skills for specific occupations
- statistical process control methods
- supervisory skills
- technical courses and programs
- WorkKeys assessments
- customer services

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PROGRAMS OF STUDY

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Basic Architectural	84	Upholstery	
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Basic Civil-Structural	84	Furniture Repair & Refinishing	86
Horticulture		Welding	
General	85	Basic Structural	86
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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:

Art	Music
Foreign Language	Philosophy
Library Science	Religion
Literature	Theatre

AREAS RECOMMENDED AS SOCIAL AND 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	History
Criminal Justice	Political Science
Economics	Psychology
Geography	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 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.

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 of 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. 5:1 or 3:1

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 which will be used to include cooperative education, practicums, 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 for 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.

COURSE PREFIXES

ACR Air Conditioning & Refrigeration
 ALI Alabama Language Institute
 ANT Anthropology
 ART Art
 AST Astronomy
 BAR Barbering
 BIO Biology
 BSR Basic Skills Reading
 BSS Basic Study Skills
 BUS Business
 CAB Cabinetmaking and Millwork
 CCT Consumer Electronics
 CHD Child Development
 CHM Chemistry
 CIS Computer & Office Information Systems
 CIT Cosmetology Instructor Training
 CNC Computer Numerical Control
 COS Cosmetology
 CRJ Criminal Justice
 DDT Design Drafting Technology
 DNT Dental Assisting
 ECO Economics
 EDU Education
 EET Electronic Engineering Technology
 ELT Electrical Technology
 EMS Emergency Medical Services
 ENG English
 FRN French
 FSC Fire Services Management
 GEO Geography
 GRN German
 HED Health Education
 HIS History
 HPS Health Sciences
 IDS Interdisciplinary Studies
 INT Industrial Maintenance Technology
 LBS Library Science
 LPN Practical Nursing
 MCM Mass Communications
 MIC Music Industry Communications
 MTH Mathematics
 MTT Machine Tool Technology
 MUL Music
 MUP Music-Private
 MUS Music-General
 NAS Nursing Assistant/Home Health Aide
 NUR Nursing
 OAD Office Administration
 ORI Orientation
 ORT Orientation/Technical
 PED Physical Education
 PFC Photography & Film

PHL Philosophy
 PHS Physical Science
 PHY Physics
 PMC Productivity Management & Control
 POL Political Science
 PRL Paralegal
 PSG Polysomnographic Technology
 PSY Psychology
 QCT Quality Control Technology
 RDG Reading
 REL Philosophy and Religion
 RLS Real Estate Sales & Management
 SOC Sociology
 SPA Spanish
 SPH Speech Communications
 SWT Social Work Technology
 THR Theatre
 TRT Traffic & Transportation Technology
 VCM Visual Communications

Special Populations

ADL Adult Literacy
 ABR Automotive Body Repair
 AUM Automotive Mechanics
 CAR Carpentry
 DDT Design Drafting
 HOC Horticulture
 MAS Masonry
 UPH Upholstery
 WDT Welding

PROGRAMS OF STUDY

ASSOCIATE OF SCIENCE DEGREE

ACCOUNTING

Associate of Science Degree

This program is designed for students who plan to transfer to senior institutions and pursue a B.S. degree in accounting.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature Sequence	6
SPH 107 Fundamentals of Public Speaking.....	3
*MTH Elective (To be chosen from MTH 112 through 115 OR MTH 120-126).....	3
Natural Science Electives.....	8
HIS Elective	3
ECO 231 Principles of Macroeconomics	3
ECO 232 Principles of Microeconomics	3
Arts Elective (To be selected from ART/MUSIC/DRAMA)	3
PSY 200 Introduction to Psychology OR SOC 200 Introduction to Sociology or ANT 200 Introduction to Anthropology	3

Total41

PROFESSIONAL CORE REQUIREMENTS

BUS 241 Principles of Accounting I	3
BUS 242 Principles of Accounting II	3
**BUS 246 Microcomputer Accounting or BUS 272 Business Statistics	3
BUS 248 Managerial Accounting.....	3
BUS 263 The Legal and Social Environment of Business	3
BUS 271 Business Statistics I	3
CIS 146 Microcomputer Applications.....	3

Total21

TOTAL CREDITS.....62

* Some universities such as UAH and Auburn require MTH 120 or MTH 125. Other universities such as Athens State accept MTH 112. Please check with senior institution.

** Check with senior institution for program requirements.

AGRICULTURAL SCIENCE

Associate of Science Degree

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
*Literature Electives	6
SPH 107 Fundamentals of Public Speaking.....	3
Humanities Elective	3

BIO 103 Principles of Biology I.....	4
BIO 104 Principles of Biology II	4
MTH 125 Calculus I.....	3
*HIS Electives	6
Social Science/Behavioral Science Electives.....	6

*Must complete a two course sequence in Literature and in History

Total41

MAJOR COURSE REQUIREMENTS:

CIS Electives (CIS 146 or three CIS 196 courses)	3
CHM 111 College Chemistry I	4
CHM 112 College Chemistry II	4
CHM 221 Organic Chemistry I.....	4
CHM 222 Organic Chemistry II.....	4

Total19

Total Credits60

ART

Associate of Science Degree

This program is for those who plan to transfer to senior institutions and pursue a B.A. degree in art. Some courses are only offered once a year in the day program on 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 art work is required upon completion of the program of study.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature Electives	6
MTH Elective (To be chosen from MTH 112 through 115 OR MTH 120 through 126).....	3

ART 221 Computer Graphics I.....3

ART 203 Art History I.....3

Natural Science Elective

History Sequence

Behavioral or Social Science Electives.....6

Total41

Some of the courses below are only offered once each year. See the course description section.

MAJOR COURSE REQUIREMENTS:

ART 113 Drawing I.....	3
ART 114 Drawing II.....	3
ART 121 Two Dimensional Composition I.....	3
ART 204 Art History II	3
ART 216 Printmaking I	3
ART Painting, 3D or Sculpture Elective	3
ART Painting Elective	3

Programs of Study

ART 291 Supervised Study in Art	1
ART 299 Portfolio.....	1
Total	23
Total Credits	64

BIOLOGICAL SCIENCE

Associate of Science Degree

Students using this as a guide toward a four-year program are strongly recommended to contact the senior institution for transferability and satisfaction of prerequisites in the specific program. Two semesters of either trig-based or calculus-based physics is strongly recommended.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
*Literature Electives	6
SPH 107 Fundamentals of Public Speaking.....	3
Humanities/Fine Arts Elective	3
BIO 103 Principles of Biology I.....	4
BIO 104 Principles of Biology II	4
MTH 112 Pre-Calculus Algebra OR MTH 125 Calculus I	3
*HIS Electives	6
Social/Behavioral Science Electives	6

*Must complete a two course sequence in Literature and in History.

Total	41
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MAJOR COURSE REQUIREMENTS:

CIS Electives (CIS 146 or three CIS 196 Courses).....	3
BIO 220 General Microbiology	4
CHM 111 College Chemistry I	4
CHM 112 College Chemistry II	4
CHM 221 Organic Chemistry I	4
CHM 222 Organic Chemistry II.....	4
Total	23
Total Credits	64

BUSINESS

Associate of Science Degree

This program is designed for students who plan to transfer to senior institutions and pursue a B.S. degree in business.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature Sequence	6

SPH 107 Fundamentals of Public Speaking.....	3
MTH Elective (To be chosen from MTH 112 through 115 or MTH 120 through 126)	3
Arts Elective (To be selected from ART/MUSIC/DRAMA)	3
Natural Science Electives.....	8
HIS Elective	3
ECO 231 Principles of Macroeconomics	3
ECO 232 Principles of Microeconomics	3
PSY 200 General Psychology or SOC 200 Introduction to Sociology or ANT 200 Introduction to Anthropology	3
Total	41

PROFESSIONAL CORE REQUIREMENTS

BUS 241 Principles of Accounting I	3
BUS 242 Principles of Accounting II	3
BUS 263 The Legal and Social Environment of Business	3
BUS 271 Business Statistics I	3
BUS 272 Business Statistics II	3
CIS 146 Microcomputer Applications.....	3
*BUS or MTH Electives	3

*Some universities such as UAH and Auburn require MTH 120 or 125. Other universities such as Athens State accept MTH 112. Please check with senior institution.

Total	21
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TOTAL CREDITS.....	62
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CHEMISTRY

Associate of Science Degree

This program is for those who plan to transfer to senior institutions and pursue a B.S. degree in chemistry or chemical engineering. Students using this as a guide toward a four-year program are strongly encouraged to contact the senior institution for transferability and satisfaction of prerequisites in the specific program.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
*Literature Electives	6
SPH 107 Fundamentals of Public Speaking.....	3
Humanities/Fine Arts Elective	3
CHM 111 College Chemistry I	4
CHM 112 College Chemistry II	4
MTH 125 Calculus I	3
*HIS Electives	6
Social/Behavioral Science Electives.....	6

*Must complete a two course sequence in Literature and in History.

Total	41
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PROFESSIONAL CORE REQUIREMENTS

CIS Elective(s) (CIS 146 or three CIS 196 courses)	3
CHM 220 Quantitative Analysis OR MTH 126 Calculus II	4

CHM 221 Organic Chemistry I.....	4
CHM 222 Organic Chemistry II.....	4
PHY 213 General Physics with Calculus I.....	4
PHY 214 General Physics with Calculus II.....	4
Total	23
TOTAL CREDITS.....	64

COMPUTER and OFFICE INFORMATION SYSTEMS

Associate of Science Degree

This program is for those who plan to transfer to senior institutions and pursue B.S. degrees in computer information systems or related fields.

NOTE: Students should consult with a department advisor during their first semester in planning their academic schedule in order to complete degree requirements in an expedient manner. Required courses may not be available every semester. Due to limited course offerings, degree seeking students may find it necessary to extend completion time lines and attend both day and evening classes.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature Sequence	6
SPH 107 Fundamentals of Public Speaking.....	3
MTH Elective (To be chosen from MTH 112 through 115 OR MTH 120 through 126.....)	3
Natural Science Electives.....	8
History Elective.....	3
ECO 231 Principles of Macroeconomics	3
ECO 232 Principles of Microeconomics	3
Arts Elective (To be selected from ART/MUSIC/DRAMA)	3
PSY 200 Introduction to Psychology or SOC 200 Introduction to Sociology OR ANT 200 Introduction to Anthropology.....	3
Total	41

PROFESSIONAL CORE REQUIREMENTS

BUS 241 Principles of Accounting I	3
BUS 242 Principles of Accounting II	3
CIS 146 Microcomputer Applications.....	3
CIS 212 Visual BASIC.....	3
CIS 231 FORTRAN Programming.....	3
CIS 251 C Programming	3
CIS 261 COBOL Programming	3
*CIS Electives (Higher than CIS 146).....	2

*Check for transferability with senior institution.

Total	23
TOTAL CREDITS.....	64

CRIMINAL JUSTICE

Associate of Science Degree

This program is for those who plan to transfer to senior institutions and pursue a B.S. degree in criminal justice or related fields. It is also suitable for immediate employment in criminal justice careers requiring less than the bachelor's degree.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature Elective.....	3
SPH 107 Fundamentals of Public Speaking.....	3
Fine Arts Elective.....	3
Foreign Language.....	3
*Math Elective (MTH 110 or MTH 112).....	3
Natural Sciences Electives.....	8
History Sequence (choose one of these sequences: HIS 101-102, HIS 121-122, or HIS 201-202).....	6
Social and Behavioral Sciences (Choose two of the following PSY 200, SOC 200, POL 211)	6
Total	41

MAJOR COURSE REQUIREMENTS:

CRJ 100 Introduction to Criminal Justice.....	3
Criminal Justice core elective (choose one of the following CRJ 110, CRJ 150, CRJ 160)	3
CIS 146 Microcomputer Applications.....	3
Social/Behavioral Science elective (students intending to transfer should consider PSY 260)	3
**Criminal Justice electives (Choose four of the following CRJ 110, CRJ 130, CRJ 140, CRJ 146, CRJ 150, CRJ 157, CRJ 160, CRJ 208, CRJ 209, CRJ 216, CRJ 220, CRJ 230, CRJ 256, CRJ 280, CRJ 290)	11
Total	23
TOTAL CREDITS.....	64

*Students intending to transfer should take MTH 112.

**Students intending to transfer should consult with their major advisor in selecting their CRJ electives.



Programs of Study

EARLY CHILDHOOD EDUCATION

• Articulation with Athens State University

This program is designed for students interested in the education of young children. The focus is upon the nature of learning and development of children from birth through third grade. This phase of the teacher education program is designed to assist the student in acquiring knowledge, understanding, and skills deemed essential to: (1) teach in preschool programs, (2) teach in kindergarten and primary grades, (3) administer and implement preschool or other early childhood programs, or (4) to pursue graduate study in early childhood and other related specializations. Professional course work requirements culminate with a fourteen-week internship.

Bachelor of Science in Education Early Childhood Education Major (P-3)* MAJOR CODE: 13.1204

Program components for the Bachelor of Science in Education with a major in Early Childhood Education include:

1. Applicable General University Requirements and the following general education and professional education requirements.
 2. General Education Requirements
 - I. Written Composition6 semester hours
 - II. Humanities and Fine Arts12 semester hours
 - III. Natural Sciences and Mathematics11 semester hours
Early Childhood Education majors must take a total of 3 mathematics and 4 science courses to meet state certification requirements, including hours taken in category III. Some of these hours may be acquired at the senior college level where a total of 64 hours must be completed.
 - IV. History, Social, and Behavioral Sciences12 semester hours
CHD 101/PSY 211 must be taken as part of the 12 hours.
 - V. Pre-professional and major courses23 semester hours
CHD 102 - Creative Experiences in Early Childhood Education
CHD 103 - Language and Literacy Development in Preschool Children
CHD 106 - Children's Health, Safety, and Nutrition
CHD 204 - Methods and Materials for Teaching Preschool Children
CHD 205 - Developing Programs for Preschool Children
CHD 209 - Infant and Toddler Programs
CHD 210 - Educating Exceptional Children
CHD 215 - Practicum in Early Childhood Education
(All courses in this area earn 3 semester hours of credit except CHD 204 which is a 2 hour course.)
- Total General Education Requirements64 semester hours
3. Professional Education Requirements:
 - ED-300 Foundations of Education3 semester hours
 - ED-302 Theories and Stages in
Language Development3 semester hours
 - ED-305 Computers and Media3 semester hours
 - ED-310 Principles of Early Childhood
Education3 semester hours
 - ED-312 The Child in a Diverse Society3 semester hours
 - ED-318 Literature in Early Childhood

Education.....	3 semester hours
ED-321 Teaching Language Arts.....	3 semester hours
ED-323 Teaching Reading in the Primary Grades.....	3 semester hours
ED-324 Teaching Mathematics in the Primary Grades.....	3 semester hours
ED-350 Administering and Managing Early Childhood Programs.....	3 semester hours
ED-420 Teaching Science.....	3 semester hours
ED-423 Teaching Social Studies.....	3 semester hours
ED-470 Early Childhood Curriculum.....	3 semester hours
ED-480 Internship in Early Childhood Education.....	9 semester hours
PE-431 Motor Development and Physical Activities.....	3 semester hours

51 semester hours

Electives: Math and science courses (beyond the 11 hours required in category III above) may be taken at the senior college level to meet the minimum baccalaureate degree and State Department of Education science and math requirements12 semester hours

ED-303 Professional Education Communication.....	0-3 semester hours
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Total 64 semester hours

*Elementary majors wishing to add Early Childhood certification must take the nine Child Development courses taught at the junior college and ED-302, ED-310, ED-318, ED-350, ED-470, and ED-480.

**These courses require admission into the Teacher Education Program.

• Pending approval by the State Board of Education.

ELEMENTARY TEACHER EDUCATION

Associate of Science Degree

This program is for those who plan to transfer to senior institutions and pursue B.S. degrees in teacher education programs for the elementary school level.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I.....	3
ENG 102 English Composition II.....	3
Literature.....	3
ART 100 Art Appreciation OR ART 286 Art for Teachers.....	3
PHL/REL/ETH/HUM 101/MUS/SPH (Recommend MUS 115, Foreign Language.....)	6
MTH 110 Finite Math OR MTH 112 Precalculus Algebra.....	3
BIO 103 Principles of Biology.....	4
PHS 112 Physical Science II.....	4
*History sequence (Choose from HIS 101 and 102 OR HIS 121 and HIS 122 OR HIS 201 and HIS 202.....)	6
Behavioral Sciences (ANT, ECO, GEO, POL, SOC).....	6

Total	41
*Student must complete at least one American History course – HIS 201 or HIS 202. Some institutions require history sequences. Please consult your advisor.	
MAJOR COURSE REQUIREMENTS:	
CIS 146 Microcomputer Applications	3
POL 200 Introduction to Political Science OR POL 211 American Government	3
GEO 100 Geography	3
PSY 200 General Psychology	3
General Electives	6
HED 221 Personal Health or HED 222 Community Health	3
Total	21
TOTAL CREDITS	62

ENGLISH

Associate of Arts Degree

This program is for those who plan to transfer to senior institutions and pursue B.A. degrees in English or other general liberal arts programs of study.

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature Sequence	6
Math elective (MTH 110 or MTH 112)	3
SPH 107 Fundamentals of Public Speaking	3
CIS elective	3
Foreign Language sequence	8
Natural Science electives	8
History Sequence	6
Social Science electives (other than history)	6
General electives	15
TOTAL CREDITS	64

FAMILY FINANCIAL PLANNING AND COUNSELING

Associate of Science Degree (OFFERED IN PARTNERSHIP WITH THE UNIVERSITY OF ALABAMA)

This Associate of Science degree program prepares the student to enter the baccalaureate Financial Planning program at The University of Alabama as a junior. Upon completion of the baccalaureate program, the student qualifies to sit for the Certified Financial Planning exam.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
*MTH Elective (To be chosen from MTH 112 through 115 or MTH 120 through 126)	3
History Elective	3
SPH 107 Fundamentals of Public Speaking	3

Literature Electives	6
ECO 231 Macroeconomics	3
ECO 232 Macroeconomics	3
Arts Elective (To be selected from ART/MUSIC/DRAMA)	3
PSY 200 General Psychology or SOC 200 Introduction to Sociology or ANT 200 Introduction to Anthropology	3
PSY 210 Human Growth Development	3
**Elective(s)	2
Total	46

MAJOR COURSE REQUIREMENTS:

BUS 241 Principles of Accounting I	3
BUS 242 Principles of Accounting II	3
BUS 271 Business Statistics I	3
BUS 272 Business Statistics II	3
CIS 146 Microcomputer Applications	3
CIS Elective (Higher than CIS 146)	3
***CSM 201 and CSM 204	

Total	18
TOTAL CREDITS	64

- * MTH 120, Calculus and its applications or MTH 125, Calculus I required at the University of Alabama.
- ** It is recommended that the student take a Social/Behavioral Science elective.
- *** Student MUST complete CSM 201 and CSM 204 prior to taking other CSM courses at The University of Alabama via distance learning options. Students register as University of Alabama students while taking these two courses. These courses DO NOT count as part of the 64 credits required for completion of the A.S. Degree from Calhoun.

FIRE SERVICES MANAGEMENT

Associate of Science Degree

This program is designed for those students seeking immediate employment in the fire services, or for those intending to pursue a Bachelor's degree in a related field at a senior institution.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition	3
ENG 102 English Composition	3
Literature Elective	3
SPH 107 Fundamentals of Public Speaking	3
Fine Arts Elective	3
Foreign Language	3
*Math Elective (MTH 110 or MTH 112)	3
Natural Sciences (must take one class from two of the following areas: Biology, Chemistry, Physical Science, Astronomy, Physics)	8
History Sequence (choose from one of these sequences: HIS 101-102, HIS 121-122, or HIS 201-202)	6
Social and Behavioral Sciences (Choose two of the following: PSY 200, SOC 200, POL 211)	6
Total	41

Programs of Study

MAJOR COURSE REQUIREMENTS:

BUS 241 Principles of Accounting I	3
BUS 242 Principles of Accounting II	3
FSC 101 Introduction to the Fire Service	3
FSC 200 Fire Combat Tactics and Strategy	3
FSC 210 Building Construction for the Fire Service	3
FSC 240 Fire Cause Determination	3
FSC 292 Elements of Supervision/FS Supervision	3
General Electives	2
Total	23
TOTAL CREDITS	64

*Students intending to transfer should take MTH 112.

GENERAL EDUCATION

Associate of Science Degree

This program is designed to include basic requirements for most four-year degrees while retaining maximum flexibility. The program allows students to coordinate programs at Calhoun with those of senior institutions. Consult an advisor for assistance in selecting electives.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature Elective	3
MTH 110 Finite Math or MTH 112 Precalculus Algebra	3
SPH 107 Fundamentals of Public Speaking	3
Humanities/Fine Arts Elective	6
Natural Science/Math electives (Science must include lab)	8
History Sequence	6
PSY 200 General Psychology	3
Behavioral Sciences	3

MAJOR COURSE REQUIREMENTS:

General Electives	19-23
TOTAL CREDITS	60-64

HEALTH AND PHYSICAL EDUCATION

Associate of Science Degree

This program is for those who plan to transfer to senior institutions and pursue a B.S. degree in physical education or related fields.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature Sequence	6
Math 110 Finite Math or MTH 112 Precalculus Algebra	3

SPH 107 Fundamentals of Public Speaking	3
Humanities or Fine Arts Elective	3
BIO 103 Principles of Biology I	4
BIO 201 Human Anatomy and Physiology I	4
History Sequence	6
*Social & Behavioral Science Electives	6

*Recommend: Economics, Psychology and/or Sociology

Total	41
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MAJOR COURSE REQUIREMENTS:

Natural Science Elective	4
HED 221 Personal Health	3
HED 222 Community Health	3
HED 226 Wellness or PED 100 Foundations of Fitness	3
HED 230 First Aid and Safety	3
PED 200 Foundations of Physical Education	3
PED Individual and Dual Sports Activity	1
PED — Rhythms	1
PED — Aquatics	1
PED — Team Sport	1

Total	23
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TOTAL CREDITS	64
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LAW/PRE-LAW

Associate of Arts Degree

Students planning a career in law may pursue a wide variety of undergraduate programs of study. Many law schools specify a bachelor's degree from an accredited college or university and an acceptable score on the LSAT exam (Law School Admission Test) as general requirements.

Electives should be chosen from a major area of study based on requirements of the institution from which the baccalaureate degree will be earned. Specific details for a pre-law program of study are a matter for each individual student to plan in consultation with advisors.

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature	3
MTH 110 Finite Math OR MTH 112 Precalculus Algebra	3
Humanities/Fine Arts Elective	6
SPH 107 Fundamentals of Public Speaking	3
Social Science	3
BIO 103 Principles of Biology	4
PHS 112 Physical Science II	4
History Sequence (Choose from HIS 101-102, HIS 121-122, HIS 201-202	6
Behavioral Science (Choose from ANT, ECO, GEO, POL, SOC	3
CIS 146 Microcomputer Applications	3
PSY 200 General Psychology	3
General electives	17

TOTAL CREDITS	64
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MATHEMATICS

Associate of Science Degree

This program is for those who plan to transfer to senior institutions and pursue a B.S. degree in mathematics. Students who plan to pursue a bachelor's degree in engineering also may choose this program.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature Sequence	6
Arts Elective	3
Humanities Elective	3
MTH 125 Calculus I	4
PHY 213 General Physics with Calculus I	4
PHY 214 General Physics with Calculus II	4
History Sequence	6
Social Science Electives	6

Total42

MAJOR COURSE REQUIREMENTS:

MTH 126 Calculus II	4
MTH 227 Calculus III	4
MTH 237 Linear Algebra	3
MTH 238 Applied Differential Equations I	3
MTH 265 Elementary Statistics	3
CIS 231 Fortran Programming OR CIS 251 C Programming OR CHM 111 College Chemistry I	3-4

Total20-21

TOTAL CREDITS62-63

PRE-MEDICINE TECHNOLOGY

Associate of Science Degree

Students using this as a guide toward a four-year program are strongly recommended to contact the senior institution for transferability and satisfaction of prerequisites in the specific program.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
*Literature Electives	6
SPH 107 Fundamentals of Public Speaking	3
Humanities Elective	3
**BIO 201 Human Anatomy and Physiology I	4
BIO 202 Human Anatomy and Physiology II	4
MTH Elective	3
*HIS Electives	6
Social/Behavioral Science Electives	6

Total41

*Must complete a two course sequence in Literature and in History

**BIO 103 Principles of Biology I is a pre-requisite for BIO 201.

MAJOR COURSE REQUIREMENTS:

CIS Elective(s) (CIS 146 or three CIS 196 courses)	3
BIO 220 General Microbiology	4
CHM 111 College Chemistry I	4
CHM 112 College Chemistry II	4
CHM 221 Organic Chemistry I	4
CHM 222 Organic Chemistry II	4

Total23

TOTAL CREDITS64

PRE-MEDICINE OR PRE-DENTISTRY

Associate of Science Degree

Students using this as a guide toward a four-year program are strongly recommended to contact the senior institution for transferability and satisfaction of prerequisites in the specific program. Two semesters of either trig-based or calculus-based physics is strongly recommended.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
*Literature Electives	6
SPH 107 Fundamentals of Public Speaking	3
Humanities/Fine Arts Elective	3
BIO 103 Principles of Biology I	4
BIO 104 Principles of Biology II	4
MTH 125 Calculus I	3
*HIS Electives	6
Social/Behavioral Science Electives	6

*Must complete a two course sequence in Literature and in History.

Total41

MAJOR COURSE REQUIREMENTS:

CIS Electives (CIS 146 or three CIS 196 courses)	3
CHM 111 College Chemistry I	4
CHM 112 College Chemistry II	4
CHM 221 Organic Chemistry I	4
CHM 222 Organic Chemistry II	4
MTH 126 Calculus II	4

Total23

TOTAL CREDITS64

Programs of Study**MEDICINE/
PRE-VETERINARY MEDICINE****Associate of Science Degree**

Students using this as a guide toward a four-year program are strongly recommended to contact the senior institution for transferability and satisfaction of prerequisites in the specific program.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
*Literature Electives	6
SPH 107 Fundamentals of Public Speaking.....	3
Humanities/Fine Arts Elective	3
BIO 103 Principles of Biology I.....	4
BIO 104 Principles of Biology II	4
MTH 125 Calculus I.....	3
*HIS Electives	6
Social/Behavioral Science Electives.....	6
Total	41

*Must complete a two-course sequence in Literature and History

MAJOR COURSE REQUIREMENTS:

CIS Elective(s) (CIS 146 or three CIS 196 courses)	3
CHM 111 College Chemistry I	4
CHM 112 College Chemistry II	4
CHM 221 Organic Chemistry I.....	4
CHM 222 Organic Chemistry II.....	4
PHY 203 General Physics I – Trig Based OR PHY 213 General Physics with Cal I	4
Total	23
TOTAL CREDITS.....	64

MUSIC EDUCATION**Associate of Science Degree**

This program is designed for those planning careers in music. Voice or an instrument is elected by the student as an applied major. An audition will be held. Piano is required for all who are not keyboard majors. A recital in the applied major is required at the end of the sophomore year. Students are required to complete four credits of music performance electives and four credits of class piano and/or secondary applied voice or instrument. A faculty advisor should be consulted before these courses are scheduled.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature Sequence	6
Math Elective (MTH 110 or MTH 112)	3
Natural Science Electives (must have lab experience)	8
History Sequence	6
Social/Behavioral Science Electives.....	6
MUL/MUP Electives.....	4
Total	39

Some of the following courses are only offered once each year. See the course description section.

MAJOR COURSE REQUIREMENTS:

MUS 111 Music Theory I* **	3
MUS 112 Music Theory II*	3
MUS 211 Music Theory III*	3
MUS 212 Music Theory IV*	3
MUS 251 Introduction to Conducting.....	3
MUP Electives in major instrument or voice.....	8
MUL Electives in ensembles.....	4
Class Piano required for non-keyboard majors	

Total 27

*Open Lab Required

**Minimum grade of "C" in MUS 110 or acceptable score on placement test (75%)

TOTAL CREDITS..... 65

NURSING/PRE-NURSING**Associate of Science Degree**

This program is for those who plan to transfer to senior institutions and pursue a B.S. degree in nursing.

NOTE: Four-year institutions offering a B.S. in nursing degree may vary as to requirements which must be met for students to be eligible for admission. Most institutions require a minimum grade point average of at least "C" in all natural science courses. It is advised that all pre-nursing students determine the entrance requirements at the four-year institution where he/she plans to transfer in order to ensure pre-requisite course requirements are met and the application process is complete.

Upon successful completion of the curriculum shown below, the student will be awarded the Associate of Science degree.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature (Choose from American or English)	3
PHL 106 Introduction to Philosophy	3
Humanities Elective	2
Fine Arts Elective	3
HIS 101/102 Western Civ I and II.....	6
MTH 112, PreCalculus Algebra.....	3
BIO 103 Principles of Biology I.....	4
CIS 196J Introduction to Hardware/Software.....	2
SOC 200 Introduction to Sociology	3
PSY 200 General Psychology	3
CHM 111 College Chemistry I	4
Total	42

MAJOR COURSE REQUIREMENTS:

BIO 201 Human Anatomy and Physiology I.....	4
BIO 202 Human Anatomy and Physiology II	4
BIO 220 General Microbiology	4
BUS 271 Business Statistics	3
or MTH 265 Elementary Statistics	
*Natural Science Elective	4
**Social Science Elective	3
Total	22

TOTAL CREDITS.....64

*CHM 233 Organic Chemistry is required by some four-year institutions.

**Suggested courses: PSY 210 Human Growth and Development, SOC 247 Marriage and the Family, PSY 230 Abnormal Psychology

PHARMACY/ PRE-PHARMACY

Associate of Science Degree

Students using this as a guide toward a four-year program are strongly recommended to contact the senior institution for transferability and satisfaction of prerequisites in the specific program.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
*Literature Electives	6
SPH 107 Fundamentals of Public Speaking.....	3
Humanities Elective	3
Natural Science Electives.....	8
MTH 125 Calculus I.....	3
*HIS Electives	6
Social/Behavioral Science Electives.....	6

*Must complete a two course sequence in Literature and History.

Total41

MAJOR COURSE REQUIREMENTS:

CIS Elective(s) (CIS 146 or three CIS 196 courses)	3
CHM 111 College Chemistry I	4
CHM 112 College Chemistry II	4
CHM 221 Organic Chemistry I.....	4
CHM 222 Organic Chemistry II.....	4
PHY 201 General Physics I – Trig Based OR	
PHY 213 General Physics w/Cal I	4
Total	23

TOTAL CREDITS.....64

SECONDARY TEACHER EDUCATION

Associate of Science Degree

This program is for those who plan to transfer to senior institutions and pursue B.S. degrees in teacher education for the secondary level.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature	3
MTH 110 Finite Math OR MTH 112 Precalculus Algebra	3
Humanities/Fine Arts Elective	6
SPH 107 Fundamentals of Public Speaking.....	3
Social Science Elective	3

Programs of Study

Natural Science Electives (Must be from two areas)	8
History Sequence (Choose from HIS 101 and HIS 102 or	
HIS 121 and HIS 122 or HIS 201 and HIS 202).....	6
Behavioral Sciences	3

Total41

MAJOR COURSE REQUIREMENTS:

BIO 103 Principles of Biology.....	4
HED 221 Personal Health or HED 222 Community Health.....	3
PSY 200 General Psychology	3
POL 200 Introduction to Political Science or	
POL 211 American National Government	3
ECO 231 Principles of Macroeconomics	3
General electives *	6

Total22

TOTAL CREDITS.....63

* Choose courses from intended teaching major.

THEATRE ARTS

Associate of Science Degree

This program is for those who plan to transfer to senior institutions and pursue a B.S. degree in theatre or related studies. Acting skills for film, stage, and television are taught in this program.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Literature Sequence	6
Math elective (MTH 110 or MTH 112)	3
SPH 107 Fundamentals of Public Speaking.....	3
SPH 206 Oral Interpretation	3
Natural Science electives (Must include Lab Experiences)	8
Social/Behavioral Science electives	6
History Sequence	6

Total41

MAJOR COURSE REQUIREMENTS:

THR 113 Theatre Workshop I.....	2
THR 114 Theatre Workshop II.....	2
THR 115 Theatre Workshop III.....	2
THR 126 Introduction to the Theatre.....	3
THR 131 Acting Techniques I.....	3
THR 132 Acting Techniques II.....	3
THR 213 Theatre Workshop IV.....	2
THR 214 Theatre Workshop V.....	2
THR 215 Theatre Workshop VI.....	2
THR 296 Directed Studies in Theatre	2

Total23

TOTAL CREDITS.....64

APPLIED DEGREES/CERTIFICATES

AIR CONDITIONING AND REFRIGERATION

Associate of Applied Science Degree

The purpose of this course of study is to train the student to become an air conditioning and refrigeration technician. The courses will cover the theory of refrigeration, heat transfer, air conditioning, equipment sizing, selection, installation, duct design, and troubleshooting.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
MTH 103 Introduction to Technical Math I	3
SPH 107 Fundamentals of Public Speaking or SPH 228 Group Communication	3
CIS elective.....	3
Humanities elective	3
PHS 120 Environmental Science	3
Social Science elective	3
Workplace Readiness Elective (Select one from BUS 190).....	1
Total	22

MAJOR COURSE REQUIREMENTS:

ACR 111 Refrigeration Principles	3
ACR 112 HVACR Service Procedures	3
ACR 113 Refrigeration Piping Practices	3
ACR 115 Heating Systems I	6
ACR 121 Principles of Electricity for HVACR	3
ACR 122 HVACR Electrical Circuits	3
ACR 125 Advanced Heat Pump Systems.....	6
ACR 126 Commercial Heating Systems.....	3
ACR 130 Computer Assisted HVAC Troubleshooting	1
ACR 132 Residential Air Conditioning	3
ACR 139 Automotive Air Conditioning.....	3
ACR 202 Special Refrigeration Systems.....	3
ACR 203 Commercial Refrigeration.....	3
ACR 204 Commercial Air Conditioning.....	3
ACR 205 System Sizing and Air Distribution	3
ELT 211 Motor Controls I.....	3
Total	52
TOTAL CREDITS.....	74

AIR CONDITIONING AND REFRIGERATION

Certificate

Certificates are programs of study designed to give students specific skills in a technology. Should students later wish to pursue a degree program, many courses within the certificate will apply toward the degree.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 130 Technical Report Writing or SPH 107 Fundamentals of Public Speaking or SPH 228 Group Communications.....	3
MTH 103 Introduction to Technical Math I.....	3
CIS 130 Introduction to Information Systems.....	3
Workplace Readiness Elective (Select one from BUS 190).....	1
Total	13

MAJOR COURSE REQUIREMENTS:

ACR 111 Refrigeration Principles	3
ACR 112 HVACR Service Procedures.....	3
ACR 113 Refrigeration Piping Practices	3
ACR 115 Heating Systems I	6
ACR 121 Principles of Electricity for HVACR.....	3
ACR 122 HVACR Electrical Circuits	3
ACR 125 Advanced Heat Pump Systems.....	6
ACR 130 Computer Assisted HVAC Troubleshooting	2
ACR 132 Residential Air Conditioning	3
ACR 139 Automotive Air Conditioning.....	3
ACR 202 Special Refrigeration Systems.....	3
ACR 203 Commercial Refrigeration.....	3
ACR 205 System Sizing and Air Distribution	3
ELT 211 Motor Controls I.....	3
Total	47
TOTAL CREDITS.....	60

BARBERING

Certificate

This is a certificate program which prepares students for employment in the profession of barbering.

GENERAL EDUCATION CORE REQUIREMENTS:

*ENG 100 Vocational Technical English I or ENG 101 English Composition I	3
*SPH 103 Oral Communications Skills or SPH 107 Fundamentals of Public Speaking	2-3
*MTH Elective (MTH 101 or 116).....	3
*CIS 100 Introductory Computer Skills I AND CIS 103 Introductory Computer Skills II or CIS Computer Information Systems Elective	3-5
Total.....	12-13

PROFESSIONAL CORE REQUIREMENTS

BAR 110 Orientation to Barbering	3
BAR 111 Science of Barbering	3
BAR 112 Bacteriology and Sanitation.....	3
BAR 113 Barber-Styling Lab.....	3

BAR 114 Advanced Barber-Styling Lab	3
BAR 120 Properties of Chemistry.....	3
BAR 121 Chemical Hair Processing.....	3
BAR 122 Hair Coloring Chemistry	3
BAR 124 Hair Coloring Methodology Lab.....	3
BAR 130 Marketing and Business Management.....	3
BAR 131 Structure and Disorders of Nails	3
BAR 132 Hair Styling and Design.....	3
BAR 133 Hair Styling and Management Lab.....	3
BAR 140 Practicum	2
BAR 141 Practicum	2

Total43

TOTAL CREDITS55-56

*Students who have not completed high school diploma or GED must take ENG 100, SPH 103, MTH 101, CIS 100 and CIS 103.

BUSINESS ADMINISTRATION

Associate of Applied Science Degree

Option I Accounting Technology

This program is designed primarily for students who plan to seek employment in financial or managerial accounting. This program is also appropriate for students who are employed and who wish to upgrade their understanding of accounting principles and practices. Although the program is not designed primarily for transfer, many of the courses are transferable to some senior institutions.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
BUS 215 Business Communications	3
MTH Elective (to be selected from MTH 110-115 OR MTH 120 through MTH 126)	3
ECO 231 Principles of Macroeconomics	3
SPH 107 Fundamentals of Public Speaking.....	3
CIS 146 Microcomputer Applications.....	3
CIS Computer Information Systems Elective.....	3
Humanities, Natural Science or Social Science Elective	3
Total	24

PROFESSIONAL CORE REQUIREMENTS

BUS 150 Business Math.....	3
BUS 241 Principles of Accounting I	3
BUS 242 Principles of Accounting II	3
BUS 246 Microcomputer Accounting	3
BUS 248 Managerial Accounting	3
BUS 253 Individual Income Tax	3
BUS 263 The Legal and Social Environment of Business	3
BUS 275 Principles of Management.....	3
CIS 147 Advanced Microcomputer Applications	3
CIS 196 Database Management (FoxPro, MS Access, or Paradox)	2
CIS 196 Spreadsheets (Lotus 1-2-3 and/or Excel)	2
CIS 196 Word Processing (WordPerfect and/or MS Word)	2
BUS or ECO Business or Economics Electives	6

Total39

TOTAL CREDITS63



BUSINESS ADMINISTRATION

Associate of Applied Science Degree

Option II Business Administration

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 this program is not designed for transfer, many of the courses are transferable to some senior institutions.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
BUS 215 Business Communications	3
MTH Elective (to be selected from MTH 110-115 OR MTH 120-126).....	3
ECO 231 Principles of Macroeconomics	3
SPH 107 Fundamentals of Public Speaking.....	3
CIS 146 Microcomputer Applications.....	3
CIS Computer Information Systems Elective.....	3
Humanities, Natural Science or Social Science Elective	3
Total	24

PROFESSIONAL CORE REQUIREMENTS

BUS 241 Principles of Accounting I	3
BUS 242 Principles of Accounting II	3
BUS 263 The Legal and Social Environment of Business	3
BUS 271 Business Statistics I	3
BUS 275 Principles of Management.....	3
BUS 285 Principles of Marketing.....	3
BUS Business Electives	6
BUS 190 Workshops	6
ECO 232 Principles of Microeconomics	3
Electives (To be selected from the following BUS, CIS, OAD, QCT, RLS, TRT)	6

Total39

TOTAL.....63

Programs of Study**BUSINESS ADMINISTRATION**

Associate of Applied Science Degree

**Option III
Entrepreneurship**

This program provides training for persons who are ready to become self-employed. It is particularly recommended for people who are currently operating or are employed in the small business sector. The program is not designed for transfer, although some of the courses may transfer to some senior institutions. NOTE: Required courses may not be at all sites every semester. Due to limited course offerings, degree seeking students may find it necessary to extend completion time lines and attend both day and evening classes at various campus sites.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
BUS 215 Business Communications	3
MTH elective (to be selected from MTH 110-115 or MTH 120-126)	3
ECO 231 Principles of Macroeconomics	3
SPH 107 Fundamentals of Public Speaking.....	3
CIS 146 Microcomputer Applications.....	3
CIS Computer Information Systems Elective.....	3
Humanities, Natural Science or Social Science Elective	3
Total	24

PROFESSIONAL CORE REQUIREMENTS

ECO 232 Principles of Microeconomics	3
BUS 150 Business Math.....	3
BUS 177 Salesmanship	3
BUS 190A Peachtree Accounting in Windows	1
BUS 190L Developing a Business Plan.....	1
BUS 190M Evaluating the Entrepreneurial Personality	1
BUS 193 Business Co-Op I.....	1
BUS 194 Business Co-Op II.....	1
BUS 195 Business Co-Op III	1
BUS 196 Business Co-Op IV	1
BUS 241 Principles of Accounting I	3
BUS 242 Principles of Accounting II	3
BUS 248 Managerial Accounting.....	3
BUS 263 The Legal and Social Environment of Business	3
BUS 275 Principles of Management	3
BUS 279 Small Business Management	3
BUS 285 Principles of Marketing.....	3
*BUS 190 Management Workshop Electives.....	3

Total40

TOTAL CREDITS.....64

*May Choose from BUS 190C Teambuilding, BUS 190G Interpersonal Relations for Management, BUS 190J Ethics in the Workplace, BUS 190P Planning for Supervising Human Resources, BUS 190V Management for Entrepreneurs, BUS 190W Customer Service Strategies, or BUS 190R Promotional Strategies.

BUSINESS ADMINISTRATION

Associate of Applied Science Degree

**Option IV
Management**

This program provides training and experience for persons who are currently operating a small business or who wish to become employed in the small business sector with management responsibilities. It also provides training for those who are employed or who are seeking employment in management positions. The program is not designed for transfer, although some of the courses may transfer to some senior institutions. NOTE: Required courses may not be at all sites every semester. Due to limited course offerings, degree seeking students may find it necessary to extend completion time lines and attend both day and evening classes at various campus sites.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
BUS 215 Business Communications	3
MTH Elective (to be selected from MTH 110-115 OR MTH 120-126).....	3
ECO 231 Principles of Macroeconomics	3
SPH 107 Fundamentals of Public Speaking.....	3
CIS 146 Microcomputer Applications.....	3
CIS Computer Information Systems Elective.....	3
Humanities, Natural Science or Social Science Elective	3

Total24

PROFESSIONAL CORE REQUIREMENTS

BUS 150 Business Math.....	3
BUS 190A Peachtree Accounting in Windows	1
BUS 276 Human Resource Management	3
*BUS 190 Management Workshop Electives.....	5
ECO 232 Principles of Microeconomics	3
BUS 241 Principles of Accounting I	3
BUS 242 Principles of Accounting II	3
BUS 248 Managerial Accounting.....	3
BUS 263 The Legal and Social Environment of Business	3
BUS 275 Principles of Management.....	3
BUS 279 Small Business Management	3
BUS 285 Principles of Marketing.....	3
CIS/BUS CIS or BUS Elective.....	3

Total39

TOTAL CREDITS.....63

*May choose from BUS 190C Teambuilding, BUS 190I Directed Readings in Management, BUS 190P Planning for Supervising Human Resources, BUS 190B Problem Solving, BUS 190G Interpersonal Relations for Management, BUS 190J Ethics in the Workplace, BUS 190K Stress Management, BUS 190H Time or Project Management, BUS 190V Management for Entrepreneurs, BUS 190W Customer Service Strategies, or BUS 190R Promotional Strategies.

BUSINESS ADMINISTRATION

Associate of Applied Science Degree

**Option V
Quality Control Technology**

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
BUS 215 Business Communications	3
MTH Elective (to be selected from MTH 110-115 OR MTH 120-126)	3
ECO 231 Principles of Macroeconomics	3
SPH 107 Fundamentals of Public Speaking	3
CIS 146 Microcomputer Applications or CIS 196 series	3
CIS Computer Information Systems Elective	3
Humanities, Natural Science or Social Science Elective	3
Total	24

PROFESSIONAL CORE REQUIREMENTS

QCT 101 Introduction to Quality	3
QCT 102 Statistics I for Quality Control or BUS 271 Business Statistics I	3
QCT 103 Statistical Process Control	3
QCT 104 Inspection Planning and Metrology	3
QCT 202 Statistics II for Quality Control or BUS 272 Business Statistics II	3
QCT 204 Auditing	3
QCT Electives	6

24

Select at least fifteen (15) additional hours from the following:

BUS 190 Management Workshops (1-3 hours each)	1-9
BUS 263 Legal/Social Environment of Business	3
ECO 232 Principles of Microeconomics	3
*ENG 102 English Composition II	3
DDT 103 Introduction to Computer Aided Drafting	4
DDT 115 or MTT 121 Blueprint Reading for Machinists	3
DDT 116 Blueprint Reading for Construction	3
*ENG 130 Technical Report Writing	3
MTT 200 or PMC 125 Industrial Processes	2-3
*Humanities Elective	3
MTH 112 Precalculus Algebra	3
MTH 113 Precalculus Trigonometry	3
MTH 115 Precalculus Algebra and Trigonometry	4
MTH 120 Calculus and Its Applications	3
MTH 125 Calculus I	4

QCT courses selected as electives under "Professional Core Requirements" are excluded here)

QCT 105 Facilitator Training	3
QCT 205 Continuous Improvement Techniques	3
QCT 206 Quality Practices and Application	3
QCT 207 Seminar in Quality Technology	3
QCT 208 Reliability for the Technologies	3
QCT 209 Design of Quality Programs	3

Total 15

TOTAL CREDITS 63

*Recommended for those transferring to Athens State University

QUALITY CONTROL TECHNOLOGY

Certificate

ENG 101 English Composition I	3
MTH Elective (to be selected from MTH 110-115 OR MTH 120-126)	3
QCT 101 Introduction to Quality	3
QCT 102 Statistics I for Quality Control or BUS 271 Business Statistics I	3
QCT Elective or BUS 190 Management Workshops	6
QCT Electives	6
TOTAL CREDITS	24

BUSINESS ADMINISTRATION

Associate of Applied Science Degree

**Option VI
REAL ESTATE SALES AND MANAGEMENT**

This program offers persons employed in the real estate field opportunities to pursue related course work. It provides basic information for those interested in entering the real estate professions as well. RLS 101 Real Estate Principles (as approved by the Alabama Real Estate Commission) is a pre-licensure course for those interested in selling.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
BUS 215 Business Communications	3
MTH Elective (to be selected from MTH 110-115 OR MTH 120-126)	3
ECO 231 Principles of Macroeconomics	3
SPH 107 Fundamentals of Public Speaking	3
CIS 146 Microcomputer Applications	3
CIS Computer Information Systems Elective	3
Humanities, Natural Science or Social Science Elective	3
Total	24

PROFESSIONAL CORE REQUIREMENTS

BUS 150 Business Math	3
BUS 177 Salesmanship	3
BUS 241 Principles of Accounting I	3
BUS 263 The Legal and Social Environment of Business	3
BUS 275 Principles of Management	3
BUS 279 Small Business Management	3
BUS 285 Principles of Marketing	3
ECO 232 Principles of Microeconomics	3
RLS 101 Real Estate Principles	4
RLS 110 Real Estate Finance	3
RLS 125 Real Estate Law	3
RLS or BUS Real Estate or Business Electives	6

Total 41

TOTAL CREDITS 65

Programs of Study**BUSINESS ADMINISTRATION**

Associate of Applied Science Degree

Option VII**TRAFFIC AND TRANSPORTATION TECHNOLOGY**

This program provides training for those planning to seek employment, or for those currently employed, in the traffic and transportation industry. Included are industrial traffic management, carrier operations, physical distribution and logistics management.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
BUS 215 Business Communications	3
MTH Elective (to be selected from MTH 110-115 OR MTH 120-126)	3
ECO 231 Principles of Macroeconomics	3
SPH 107 Fundamentals of Public Speaking	3
CIS 146 Microcomputer Applications	3
CIS Computer Information Systems Elective	3
Humanities, Natural Science or Social Science Elective	3
Total	24

PROFESSIONAL CORE REQUIREMENTS

BUS 150 Business Math	3
BUS 241 Principles of Accounting I	3
BUS 263 The Legal and Social Environment of Business	3
BUS 275 Principles of Management	3
BUS 285 Principles of Marketing	3
CIS 196M Introduction to GIS	1-2
ECO 232 Principles of Microeconomics	3

Choose seven (7) of the following TRT courses:

TRT 101 History of Transportation	3
TRT 102 Regulation of Transportation	3
TRT 103 Industrial Traffic Management	3
TRT 104 Transportation and Distribution Logistics	3
TRT 190 Traffic and Transportation Workshop(s)	3
TRT 210 Tracking Systems	3
TRT 213 Freight Loss and Damage Claims	3
TRT 214 Import/Export Transportation Management	3
TRT 218 Transportation of Hazardous Materials	3
TRT 220 Directed Studies in Traffic and Transportation	3

Total40-41**TOTAL CREDITS**64-65**TRAFFIC AND TRANSPORTATION
TECHNOLOGY**

Certificate

This program provides training for those planning to seek employment, or for those currently employed in the traffic and transportation industry. Included are industrial traffic management, carrier operations, physical distribution and logistics management.

PROFESSIONAL CORE REQUIREMENTS

CIS 196M Introduction to GIS.....1-2

Choose seven (7) of the following TRT courses:

TRT 101 History of Transportation	3
TRT 102 Regulation of Transportation	3
TRT 103 Industrial Traffic Management	3
TRT 104 Transportation and Distribution Logistics	3
TRT 190 Traffic and Transportation Workshop(s)	3
TRT 210 Tracking Systems	3
TRT 213 Freight Loss and Damage Claims	3
TRT 214 Import/Export Transportation Management	3
TRT 218 Transportation of Hazardous Materials	3
TRT 220 Directed Studies in Traffic & Transportation	3

TOTAL CREDITS22-23**CHILD DEVELOPMENT**

Associate of Applied Science Degree

This program is designed to prepare students for employment in preschool programs. Emphasis is upon developing competency in guiding the experiences of children starting with birth. Graduates may be employed as teachers in public kindergartens, teachers or directors in private preschool programs, as Head Start teachers, or own a child care service.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
SPH 107 Fundamentals of Public Speaking	3
Fine Arts Elective	3
MTH 116 Mathematical Applications or MTH 112 Precalculus Algebra	3
BIO 103 Principles of Biology I	4
CIS 146 Microcomputer Applications	3
History Elective	3
PSY 200 General Psychology	3

MAJOR COURSE REQUIREMENTS:

CHD 100 Introduction to Early Care and Education of Children	3
CHD 101/PSY 211 Child Growth and Development Principles	3
CHD 102 Creative Experiences in Early Childhood Education	3
CHD 103 Language and Literacy Development in Preschool Children	3
CHD 106 Children's Health, Safety, and Nutrition	3
CHD 204 Methods and Materials for Teaching Preschool Children	3
CHD 205 Developing Programs for Preschool Children	3
CHD 215 Practicum in Early Childhood Education	3

Electives.....12-13

CHD 208 Administration of Child Development

Programs

CHD 209 Infant and Toddler Programs

CHD 210 Educating Exceptional Children
Literature Elective
Natural Science Elective, with laboratory
SOC 247 Marriage and the Family

Total Credits.....64-65

CHILD DEVELOPMENT
CDA Credential

This program meets the needs of those students interested in the 120 clock hours of formal training necessary for the nationally recognized CDA credential.

MAJOR COURSE REQUIREMENTS:

CHD 100 Introduction to Early Care and
Education of Children3
CHD 102 Creative Experiences in
Early Childhood Education.....3
CHD 204 Methods and Materials for
Teaching Preschool Children3

Information on the additional requirements necessary for this credential as outlined by the Council is also available.

Courses to renew your CDA credential are available upon request.

*CDA Credential is awarded by the Council for Early Childhood Professional Recognition in Washington, D.C.

CHILD DEVELOPMENT
Certificate

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 Early Childhood.

GENERAL EDUCATION CORE REQUIREMENTS:

*ENG 101 English Composition I.....3
*MTH 110 Finite Math or
MTH 112 Precalculus Algebra3
PSY 200 General Psychology3
CIS 146 Microcomputer Applications3

MAJOR COURSE REQUIREMENTS:

CHD 100 Introduction to Early Care
and Education of Children.....3
CHD 101/PSY 211 Child Growth
and Development Principles3
CHD 102/ART 286 Creative Experiences in Early
Childhood Education/Art for Teachers3
CHD 204 Methods and Materials for
Teaching Preschool Children3
CHD 205 Developing Programs for
Preschool Children3
CHD 215 Practicum in Early Childhood
Education3
Electives6
CHD 103 Language and Literacy
Development in Preschool Children

CHD 106 Children's Health, Safety,
and Nutrition
CHD 208 Administration of Child Development
Programs
CHD 209 Infant and Toddler Programs
CHD 210 Educating Exceptional Children

*ENG 100 and MTH 116 may be substituted in some cases.

Total Credits36

COMPUTER GRAPHICS
OPTION I
Graphic Design

Associate of Applied Science Degree

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 and technical illustration are emphasized in this program. Some courses are offered only once a year in the day program on 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.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I3
MTH Elective (to be selected from MTH 110-115 OR
MTH 120-126).....3
SPH 107 Fundamentals of Public Speaking.....3
ART 221 Computer Graphics I.....3
Humanities elective3
Natural Science/Math/CIS elective.....3
Social Science elective3
Total21

MAJOR COURSE REQUIREMENTS:

ART 113 Drawing I3
ART 114 Drawing II.....3
ART 121 Two Dimensional Composition I3
ART 173 Photography I3
ART 203 Art History I3
ART 204 Art History II3
ART 216 Printmaking I3
ART 253 Graphic Design I3
ART 254 Graphic Design II3
ART 291 Supervised Study in Studio Art I and
ART 292 Supervised Study in Studio Art II*3
ART, PFC or VCM elective3
ART 299 Portfolio.....1
VCM 150 Typography.....3
VCM 180 Introduction to Graphic Design.....3
VCM 232 Advanced Computer Graphics3
VCM 250 Introduction to Technical Illustration3
VCM 251 Technical Illustration.....3
*Work completed in these courses must pertain to major area of study.

Total49

TOTAL CREDITS.....70

Programs of Study
COMPUTER GRAPHICS
Option II
Computer Graphics/Electronic Imaging
Associate of Applied Science Degree

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, and multimedia production are emphasized in this program. Some courses are offered only once a year in the day program on 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. Option II offers a greater emphasis on Computer Graphics/Electronic Imaging.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ART 221 Computer Graphics I.....	3
MTH Elective (to be selected from MTH 110-115 OR MTH 120-126).....	3
SPH 107 Fundamentals of Public Speaking.....	3
Humanities elective	3
Math, Natural Science or CIS elective.....	3
Social Science elective	3
Total	21

MAJOR COURSE REQUIREMENTS:

ART 113 Drawing I	3
ART 121 Two Dimensional Composition I.....	3
ART 173 Photography I.....	3
ART 203 Art History I	3
ART 204 Art History II.....	3
ART 253 Graphic Design I.....	3
ART 291 Supervised Study in Studio Art I and ART 292 Supervised Study in Studio Art II*	3
ART 299 Portfolio.....	1
VCM 150 Typography.....	3
VCM 145 Introduction to Digital Photography.....	2
VCM 180 Introduction to Graphic Design.....	3
VCM 232 Advanced Computer Graphics	3
VCM 250 Introduction to Technical Illustration	3
VCM 281 Digital Design	2
VCM 285 Multimedia Production	2
VCM 251 Technical Illustration.....	3
VCM 286 Advanced Multimedia Production	2
VCM 282 Advanced Digital Design	2
Total	47

TOTAL CREDITS.....68

*Work completed in these courses must pertain to major area of study.

Awaiting approval from Department of Postsecondary Education

COMPUTER GRAPHICS OPTION III.
COMPUTER ANIMATION
and
COMPUTER GRAPHICS OPTION IV.
VISUAL COMMUNICATIONS

For information about these programs of study, call
306-2699 or Dr. Sue Mitchell at 306-2655.

COMPUTER and OFFICE INFORMATION SYSTEMS
OPTION I. MICROCOMPUTERS
Associate of Applied Science Degree

This program is designed for students seeking employment in the field of the technical concentration. The program is not designed for transfer, although many of the courses are transferable to some senior institutions. NOTE: Required courses may not be available every semester. Due to limited course offerings, degree seeking students may find it necessary to extend completion time lines and attend both day and evening classes.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
BUS 215 Business Communications	3
SPH 107 Fundamentals of Public Speaking.....	3
MTH Elective (to be selected from MTH 110-115 OR MTH 120-126).....	3
CIS 146 Microcomputer Applications.....	3
CIS Elective	3
ECO 231 Principles of Macroeconomics	3
Humanities, Natural Science or Social Science Elective	3
Total	24

PROFESSIONAL CORE REQUIREMENTS

BUS 241 Principles of Accounting I	3
BUS 242 Principles of Accounting II	3
CIS Electives (Must be CIS 196 or Higher).....	6
CIS 147 Advanced Microcomputer Applications	3
CIS 196 Spreadsheets (May include: MS Excel, Quattro Pro, and/or Lotus).....	1
CIS 196 Database Management (May include: MS Access and/or Paradox or FoxPro)	1
CIS 196 Graphics/Desktop Publishing (May include: PowerPoint, Wordperfect Presentations, and/or Pagemaker or MS Publisher)	1
CIS 196J Introduction to Hardware/Software	2
CIS 196L Introduction to Internet.....	2
CIS Programming Electives.....	9
CIS 288 Networking	3
OAD 125 Word Processing I	3
OAD 232 The Electronic Office	3
Total	40

TOTAL CREDITS.....64

**COMPUTER and OFFICE INFORMATION SYSTEMS
OPTION II. PROGRAMMING**

Associate of Applied Science Degree

This program is designed for students seeking employment in the field of the technical concentration. The program is not designed for transfer, although many of the courses are transferable to some senior institutions. NOTE: Required courses may not be available every semester. Due to limited course offerings, degree seeking students may find it necessary to extend completion time lines and attend both day and evening classes.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
BUS 215 Business Communications	3
SPH 107 Fundamentals of Public Speaking.....	3
MTH Elective (to be selected from MTH 110-115 OR MTH 120-126).....	3
CIS 146 Microcomputer Applications.....	3
CIS Elective	3
ECO 231 Principles of Macroeconomics	3
Humanities, Natural Science or Social Science Elective	3
Total	24

PROFESSIONAL CORE REQUIREMENTS

BUS 241 Principles of Accounting I	3
BUS 242 Principles of Accounting II	3
CIS 147 Advanced Microcomputer Applications	3
CIS 196 Database Management (May include: MS Access, and/or Paradox or FoxPro)	1
CIS 231 FORTRAN Programming.....	3
CIS 251 C Programming	3
CIS 261 COBOL Programming	3
CIS Programming Electives (May include CIS 198 Web Page Development, CIS 255 Java Programming, CIS 292 Ada Programming, or CIS 211 BASIC)	3
CIS 281 Systems Analysis and Design.....	3
CIS 288 Networking	3
CIS Advanced Programming Electives (May include CIS 232 Advanced FORTRAN; CIS 262 Advanced COBOL; CIS 252 Advanced C; or CIS 295 Advanced Visual Basic).....	9
CIS 212 Visual BASIC.....	3
Total	40
TOTAL CREDITS.....	64

**COMPUTER and OFFICE INFORMATION SYSTEMS
Option III. Office Information Systems
Associate of Applied Science Degree**

This program is designed for students seeking employment in the field of the technical concentration. The program is not designed for transfer, although many of the courses are transferable to some senior institutions. NOTE: Required courses may not be available every semester. Due to limited course offerings, degree seeking students may find it necessary to extend completion time lines and attend both day and evening classes.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
BUS 215 Business Communications	3
SPH 107 Fundamentals of Public Speaking.....	3
MTH Elective (to be selected from MTH 110-115 or MTH 120-126).....	3
CIS 146 Microcomputer Applications.....	3
CIS Elective	3
ECO 231 Principles of Macroeconomics	3
Humanities, Natural Science or Social Science Elective	3
Total	24

MAJOR COURSE REQUIREMENTS:

BUS 241 Principles of Accounting I	3
BUS 263 Legal/Social Environment of Business.....	3
CIS 147 Advanced Microcomputer Applications	3
OAD 103 Intermediate Keyboarding	3
OAD 104 Advanced Keyboarding.....	3
OAD 125 Word Processing I	3
OAD 126 Advanced Word Processing	3
OAD 138 Records Information Management.....	3
OAD 200 Machine Transcription	3
OAD 217 Office Management	3
OAD 230 Electronic Publishing.....	3
OAD 232 The Electronic Office	3
OAD 233 Trends in Office Technology	3
Total	39

TOTAL CREDITS.....63

**COMPUTER and OFFICE INFORMATION SYSTEMS
Option IV. Multimedia Applications
Associate of Applied Science Degree**

This program is designed for the student who plans to complete the AAS Degree in Computer and Office Information Systems Option IV - Multimedia Applications at Calhoun and the Bachelor of Science in Education - Military Instructor/Staff Development in Vocational/Career Technical Education Degree at Athens State University.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
SPH 107 Fundamentals of Public Speaking.....	3
Behavioral Science Electives	6
Humanities Electives (art, literature, music, religion, and philosophy -- from two areas)	9
Social Science Electives	6
Natural Science (May include one approved Computer Science elective; two lab-based sciences recommended)	9
Mathematics (pre-calculus algebra or higher recommended)	3
Total	42

PROFESSIONAL CORE REQUIREMENTS

CIS 146 Microcomputer Applications.....	3
CIS 196B MS Word for Windows 95.....	1
CIS 196D PowerPoint for Windows 95.....	1

Programs of Study

CIS 196Q Pagemaker	1
CIS 196E Access for Windows 95	3
CIS 196T Toolbox.....	3
CIS 251 C Programming	3
CIS Electives.....	3
CIS Programming Elective*	3

Total21

TOTAL CREDITS.....63

*PASCAL, COBOL, or FORTRAN recommended for students transferring into the Computer Science program at ASU).

COMPUTER and OFFICE INFORMATION SYSTEMS**General Office Certificate**

Certificates are programs of study designed to give students specific skills in a technology. Should students later wish to pursue a degree program, many courses within the certificate will apply toward the degree.

NOTE: Students should consult with a department advisor during their first semester in planning their academic schedule in order to complete degree requirements in an expedient manner. Required courses may not be available every semester. Please refer to the Office Administration course descriptions for specific course offerings. Degree seeking students may find it necessary to extend completion time lines and attend both day and evening classes.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
SPH 107 Fundamentals of Public Speaking.....	3
MTH Elective (MTH 100 or above)	3
CIS 146 Microcomputer Applications.....	3

Total12

PROFESSIONAL CORE REQUIREMENTS

BUS 215 Business Communications	3
BUS 241 Principles of Accounting I	3
OAD 103 Intermediate Keyboarding	3
OAD 104 Advanced Keyboarding.....	3
OAD 125 Word Processing.....	3
OAD 138 Records/Information Management.....	3
OAD 200 Machine Transcription.....	3
OAD 217 Office Management	3
OAD 230 Electronic Publishing.....	3
OAD 232 The Electronic Office	3

Total30

TOTAL CREDITS.....42

COMPUTER and OFFICE INFORMATION SYSTEMS**Microcomputer Applications Certificate**

Certificates are programs of study designed to give students specific skills in a technology. Should students later wish to pursue a degree program, many courses within the certificate will apply toward the degree.

NOTE: Students should consult with a department advisor during their

first semester in planning their academic schedule in order to complete degree requirements in an expedient manner. Required courses may not be available every semester. Please refer to the Office Administration course descriptions for specific course offerings. Due to limited course offerings, degree seeking students may find it necessary to extend completion time lines and attend both day and evening classes.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
SPH 107 Fundamentals of Public Speaking.....	3
MTH Elective (MTH 100 or above)	3
CIS 146 Microcomputer Applications.....	3

Total12

PROFESSIONAL CORE REQUIREMENT

BUS 215 Business Communications	3
CIS 147 Advanced Microcomputer Applications	3
OAD 103 Intermediate Keyboarding	3
OAD 104 Advanced Keyboarding	3
OAD 125 Word Processing.....	3
OAD 138 Records/Information Management.....	3
OAD 200 Machine Transcription.....	3
OAD 230 Electronic Publishing.....	3
OAD 232 The Electronic Office	3
OAD 233 Trends in Office Technology.....	3

Total30

TOTAL CREDITS.....42

COMPUTER and OFFICE INFORMATION SYSTEMS**Software Applications Certificate**

The Software Applications Certificate is designed for students seeking instruction in various types of software in order to be more employable in the job market or to enhance current computer skills. The certificate may be completed at either the Huntsville or Decatur campuses. The following courses are required.

CIS 196J Introduction to Hardware/Software OR	
CIS 130 Intro to Information Systems	1-3
CIS 196A Windows 98	1
CIS 196 Word Processing (May include MS Word or Word Perfect)	1
CIS 196 Spreadsheets (May include MS Excel, or Quattro Pro)	1
CIS 196 Database Management (May include Access, or Paradox)	1
CIS 196 Graphics/Desktop Publishing (May include PowerPoint, WordPerfect Presentations, Pagemaker or MS Publisher)	1
CIS 196L Introduction to Internet	2

TOTAL8-10

COMPUTER and OFFICE INFORMATION SYSTEMS**Word Processing Specialist Certificate**

Certificates are programs of study designed to give students specific skills in a technology. Should students later wish to pursue a degree program, many courses within the certificate will apply toward the degree.

NOTE: Students should consult with a department advisor during their first semester in planning their academic schedule in order to complete degree requirements in an expedient manner. Required courses may not be available every semester. Please refer to the Office Administration course descriptions for specific semester offerings. Due to limited course offerings, degree seeking students may find it necessary to extend completion time lines and attend both day and evening classes.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
SPH 107 Fundamentals of Public Speaking.....	3
MTH Elective (MTH 100 or above)	3
CIS 146 Microcomputer Applications.....	3
Total	12

PROFESSIONAL CORE REQUIREMENTS

BUS 215 Business Communications	3
OAD 103 Intermediate Keyboarding	3
OAD 104 Advanced Keyboarding.....	3
OAD 125 Word Processing.....	3
OAD 126 Advanced Word Processing	3
OAD 138 Records/Information Management.....	3
OAD 200 Machine Transcription.....	3
OAD 230 Electronic Publishing.....	3
OAD 232 The Electronic Office	3
Total	27
TOTAL CREDITS.....	39

COSMETOLOGY

Certificate

This program has been constructed to give the student knowledge and skills that are required to become a licensed cosmetologist. The length of the program is 1200 credit unit hours. Students entering cosmetology must be at least 16 years of age, have completed the 10th grade or hold an equivalency certificate, and have the approved health card. Blood tests, skin test, and x-rays are required to meet State Cosmetology Board regulations.

GENERAL EDUCATION CORE REQUIREMENTS:

*ENG 100 Vocational Technical English I or ENG 101 English Composition I	3
*SPH 103 Oral Communication Skills or SPH 107 Fundamentals of Public Speaking	2-3
*MTH Elective (MTH 101 or MTH 116)	3
*CIS 100 Introductory Computer Skills I AND CIS 103 Introductory Computer Skills II OR CIS Computer Information Systems Elective	3-5
Total.....	12-13

PROFESSIONAL CORE REQUIREMENTS

BAR 114 Advanced Barber-Styling Lab	3
COS 111 Cosmetology Science and Art.....	3
COS 112 Cosmetology Science and Art Lab.....	3
COS 113 Chemical Methodology.....	3
COS 114 Chemical Methodology Lab	3
COS 121 Colorimetry.....	3

COS 122 Colorimetry Applications	3
COS 123 Cosmetology Salon Practices	3
COS 124 Salon Management.....	2
COS 131 Esthetics.....	3
COS 132 Esthetics Applications	3
COS 143 Hair Designs	3
COS 146 Hair Additions.....	4
COS 151 Nail Care.....	3
COS 152 Nail Care Applications.....	3
COS 190 Internship in Cosmetology	1
COS 191 Co-op	1
Total	47

TOTAL CREDITS59-60

**COSMETOLOGY/ESTHETICS
(Skin Care)**

Certificate

This program is designed for the student who is preparing for a career in Estheology (Skin Care). The length of this program is 1200 credit units. Upon completion of this program, the graduate is eligible for the Alabama State Board Examination (consisting of a written and practical exam) to obtain an Esthetician's License. Coursework includes lecture and lab instruction.

GENERAL EDUCATION CORE REQUIREMENTS:

*ENG 100 Vocational Technical English I or ENG 101 English Composition I	3
*SPH 103 Oral Communication Skills or SPH 107 Fundamentals of Public Speaking	2-3
*MTH Elective (MTH 101 or MTH 116)	3
*CIS 100 Introductory Computer Skills I AND CIS 103 Introductory Computer Skills II OR CIS Computer Information Systems Elective	3-5
Total.....	12-13

PROFESSIONAL CORE REQUIREMENTS

COS 124 Salon Management.....	2
COS 131 Esthetics.....	3
COS 132 Esthetics Applications	3
COS 160 Image Projection	3
COS 163 Facial Treatments	3
COS 164 Facial Machine.....	3
COS 165 Related Subjects-Estheticians	3
COS 166 Color Psychology – Coordination	3
COS 168 Bacteriology and Sanitation.....	3
COS 169 Skin Functions.....	3
COS 190 Internship in Cosmetology	3
COS 191 Co-Op	3
Total	35

TOTAL CREDITS47-48

*Students who have not earned a high school diploma or GED must take ENG 100, SPH 103, MTH 101, CIS 100, and CIS 103.

Programs of Study**COSMETOLOGY/INSTRUCTOR TRAINING****Certificate**

A teacher-training program for licensed cosmetologists. Upon completion of this program, the graduate is eligible to take the Alabama Instructor Examination.

CIT 211 Teaching and Curriculum Development	3
CIT 212 Teacher Mentorship	3
CIT 213 Lesson Plan Development.....	3
CIT 221 Lesson Plan Implementation.....	3
CIT 222 Instructional Materials and Methods.....	3
CIT 223 Instructional Materials and Methods Applications	3
TOTAL CREDITS.....	18

COSMETOLOGY/NAIL TECHNOLOGY**Certificate****GENERAL EDUCATION CORE REQUIREMENTS:**

*ENG 100 Vocational Technical English or ENG 101 English Composition I	3
*SPH 103 Oral Communication Skills or SPH 107 Fundamentals of Public Speaking	2-3
*MTH Elective (numbered 100 or higher)	3
*CIS 100 Introductory Computer Skills I AND CIS 103 Introductory Computer Skills II OR CIS Computer Information Systems Elective	3-5
Total.....	12-13

MAJOR COURSE REQUIREMENTS:

COS 151 Nail Care.....	3
COS 152 Nail Care Applications.....	3
COS 153 Nail Art	3
COS 154 Nail Art Applications	3
COS 190 Internship in Cosmetology	3
COS 191 Co-Op	3
Total	18
TOTAL CREDITS	30-31

**DENTAL ASSISTING****Associate of Applied Science Degree**

Dental Assisting is a dental auxiliary field. As auxiliary team members, students in the Dental Assisting program are taught to be generalists. They perform a variety of functions in the dental office requiring communication skills, critical thinking and sound judgment. Dental Assistants may provide chairside assistance to the dentist, perform work in the dental laboratory, provide oral hygiene instruction, assist with radiologic procedures and/or perform office managerial duties. Through evaluation techniques, Dental Assistants enhance the quality of care the patient receives.

The Associate of Applied Science degree is awarded to the student who completes the general education core requirements and major course requirements for dental assisting. This can be accomplished in four semesters. A three-semester certificate program is also available. Graduates of either program are eligible to apply to take the certification examination administered by the Dental Assisting National Board.

The Dental Assisting program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education. The Dental Assisting program is operated with the approval of the Board of Dental Examiners of Alabama.

PROGRAM OBJECTIVES

Upon successful completion of the Dental Assisting program the graduates will be able to:

1. Utilize effective communication skills;
2. Participate as a member of the dental health team in the coordination and delivery of patient care;
3. Perform four-handed assisting skills to assist the dentist in general dentistry;
4. Perform common laboratory procedures;
5. Take, process and mount dental radiographs;
6. Implement beginning skills for assisting in the dental specialties;
7. Teach the patient adequate nutrition as it relates to normal teeth;
8. Demonstrate skills in organizing and maintaining the secretarial assistant position;
9. Assist the dentist during office emergencies;
10. Demonstrate acceptable behavior by practicing within the ethical and legal guidelines of the Dental Assistant;
11. Participate in continuing education by:
 - a. reading current literature,
 - b. attending continuing education programs through formal and/or informal educational experiences, and
 - c. networking with members of the dental health team to impact knowledge.

Admission to the program: Applicants must meet the admission requirements of Calhoun Community College. Applicants should be eligible to take English 101 and Math 100, Math 112 or Math 116 or have permission of the instructor. Dental Assisting classes are admitted once a year, Fall Semester. For more information/appointment, contact Ms. Pat Stueck, Dental Assisting Director, 306-2812 or the Allied Health Department, 306-2785/2786.

Students enrolled in the Dental Assisting program will be required to:

1. Provide evidence of current cardiopulmonary resuscitation (CPR) course completion. CPR course completion must be maintained throughout the program.
2. Submit a current student Health Examination form (includes medical and dental examinations) completed appropriately by licensed physician/dentist. Form furnished by Allied Health Department.
3. Provide medical verification of two-step Mantoux skin test (chest x-ray if positive) indicating he/she is free of tuberculosis.
4. Provide verification of immunization for hepatitis B and/or show positive antibodies, or sign a waiver.
5. Purchase professional liability insurance through the college by the first week of classes. (Forms available in the Allied Health Department)
6. Arrange transportation to and from clinical facilities as required by the program.
7. Abide by the policies of the College and Dental Assisting Policy Manual.

When there is probable cause, the Allied Health Department reserves the right to require a prospective student, a student currently enrolled in the 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 outcome to the Allied Health Department. The Allied Health Department will provide a specific form for this purpose when applicable. All reports will be reviewed by the Dental Assisting Instructor/Allied Health Department to determine if a student may be admitted, readmitted, or retained in the dental program.

Progression in the Program: Students are expected to meet pre-requisite/co-requisite requirements to progress in the program. Students must attain a minimum grade of "C" in theory for each Dental Assisting course and earn a grade of "Satisfactory" for Dental Assisting courses with that component.

Readmission to the Program: To be readmitted to the Dental Assisting program, the student must contact Ms. Pat Stueck (306-2812) to schedule an appointment to discuss readmission. The student must be eligible for readmission by the college and must have an overall 2.00 grade point average. Students who re-enter the program may be subject to follow the current curriculum. All requirements for students enrolling in the program will apply to students re-entering the Dental Assisting program.

Policy/Curriculum Changes: Policies/Curriculum changes in the Dental Assisting program are subject to change at any given time. Written documentation will be provided to students currently enrolled in the program prior to change in policy/curriculum.

Fall	Cr. Hrs.
DNT 100 Introduction to Dental Assisting.....	2
DNT 101 Preclinical Procedures I	3
DNT 102 Dental Materials.....	3
DNT 103 Anatomy and Physiology for Dental Assistants	3
DNT 104 Basic Sciences for Dental Assisting.....	2
PSY 200 General Psychology.....	3

Spring	Cr. Hrs.
DNT 111 Clinical Practice I.....	5
DNT 112 Dental Radiology	3
DNT 113 Dental Health Education	2
DNT 116 Preclinical Procedures II.....	2

DNT 124 Clinically Applied Infection Control and OSHA Standards.....	1
*MTH Elective	3
*SPH 107 Fundamentals of Public Speaking.....	3

Summer

DNT 121 Dental Office Procedures.....	4
DNT 122 Clinical Practice II.....	4
DNT 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):

*Natural Science elective.....	3
*CIS Elective	3
*Humanities/Fine Arts elective	3
*History or Social Science or Behavioral Science Elective	3

TOTAL CREDITS.....62

* General Education Core Courses may be completed prior to entering the program.

DENTAL ASSISTING

Certificate

Dental Assisting is a dental auxiliary field. As auxiliary team members, students in the Dental Assisting program are taught to be generalists. They perform a variety of functions in the dental office requiring communication skills, critical thinking and sound judgment. Dental Assistants may provide chairside assistance to the dentist, perform work in the dental laboratory, provide oral hygiene instruction, assist with radiologic procedures and/or perform office managerial duties. Through evaluation techniques, Dental Assistants enhance the quality of care the patient receives.

Certificates are programs of study designed to give students specific skills in a technology. Should students later wish to pursue a degree program, many courses within the certificate will apply toward the degree.

The Dental Assisting program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education. The Dental Assisting program is operated with the approval of the Board of Dental Examiners of Alabama.

PROGRAM OBJECTIVES

Upon successful completion of the Dental Assisting program the graduates will be able to:

1. Utilize effective communication skills;
2. Participate as a member of the dental health team in the coordination and delivery of patient care;
3. Perform four-handed assisting skills to assist the dentist in general dentistry;
4. Perform common laboratory procedures;
5. Take, process and mount dental radiographs;
6. Implement beginning skills for assisting in the dental specialties;
7. Teach the patient adequate nutrition as it relates to normal teeth;
8. Demonstrate skills in organizing and maintaining the secretarial

Programs of Study

- assistant position;
9. Assist the dentist during office emergencies;
 10. Demonstrate acceptable behavior by practicing within the ethical and legal guidelines of the Dental Assistant;
 11. Participate in continuing education by:
 - a. reading current literature,
 - b. attending continuing education programs through formal and/or informal educational experiences, and
 - c. networking, with members of the dental health team to impact knowledge.

Admission to the program: Applicants must meet the admission requirements of Calhoun Community College. Applicants should be eligible to take English 101 and Math 100, Math 112 or Math 116 or have permission of the instructor. Dental Assisting classes are admitted once a year, Fall Semester. For more information/appointment, contact Ms. Pat Stueck, Dental Assisting Director, 306-2812 or the Allied Health Department, 306-2785/2786.

Programs of Study

Students enrolled in the Dental Assisting program will be required to:

1. Provide evidence of current cardiopulmonary resuscitation (CPR) course completion. CPR course completion must be maintained throughout the program.
2. Submit a current student Health Examination form (includes medical and dental examinations) completed appropriately by licensed physician/dentist. Form furnished by Allied Health Department.
3. Provide medical verification of two-step Mantoux skin test (chest x-ray if positive) indicating he/she is free of tuberculosis.
4. Provide verification of immunization for hepatitis B and/or show positive antibodies, or sign a waiver.
5. Purchase professional liability insurance through the college by the first week of class. (Forms available in the Allied Health Department)
6. Arrange transportation to and from clinical facilities as required by the program.
7. Abide by the policies of the College and Dental Assisting Policy Manual.

When there is probable cause, the Allied Health Department reserves the right to require a prospective student, a student currently enrolled in the 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 outcome to the Allied Health Department. The Allied Health Department will provide a specific form for this purpose when applicable. All reports will be reviewed by the Dental Assisting instructor/Allied Health Department to determine if a student may be admitted, readmitted, or retained in the dental program.

Progression in the Program: Students are expected to meet pre-requisite/co-requisite requirements to progress in the program. Students must attain a minimum grade of "C" in theory for each Dental Assisting course and earn a grade of "Satisfactory" for Dental Assisting courses with that component.

Readmission to the Program: To be readmitted to the Dental Assisting program, the student must contact Ms. Pat Stueck (306-2812) to schedule an appointment to discuss readmission. The student must be eligible for readmission by the college and must have an overall 2.00 grade point average. Students who re-enter the program may be subject to follow

the current curriculum. All requirements for students enrolling in the program will apply to students re-entering the Dental Assisting program.

Policy/Curriculum Changes: Policies/Curriculum changes in the Dental Assisting program are subject to change at any given time. Written documentation will be provided to students currently enrolled in the program prior to change in policy/curriculum.

Fall	Cr. Hrs.
DNT 100 Introduction to Dental Assisting	2
DNT 101 Preclinical Procedures I	3
DNT 102 Dental Materials.....	3
DNT 103 Anatomy and Physiology for Dental Assistants.....	3
DNT 104 Basic Sciences for Dental Assisting	2
*PSY 200 General Psychology	3

Spring	Cr. Hrs.
DNT 111 Clinical Practice 1	5
DNT 112 Dental Radiology	3
DNT 113 Dental Health Education.....	2
DNT 116 Preclinical Procedures II.....	2
DNT 124 Clinically Applied Infection Control and OSHA Standards	1
*MTH Elective	3
*SPH 107 Fundamentals of Public Speaking.....	3

Summer	Cr. Hrs.
DNT 121 Dental Office Procedures	4
DNT 122 Clinical Practice II	4
DNT 123 Dental Assisting Seminar.....	4
*ENG 101 English Composition I	3
TOTAL CREDITS.....	50

* General Education Core Courses may be completed prior to entering the program.

DESIGN DRAFTING TECHNOLOGY**Associate of Applied Science**

This program prepares students for immediate employment in the field of drafting. Computer assisted drafting is a vital part of the Design Drafting Program. The certificate and degree programs are self-paced. A student may complete a maximum of 25 credit hours of work during a semester.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
MTH 103 Introduction to Technical Math I or MTH 112 Precalculus Algebra	3
SPH 107 Fundamentals of Public Speaking	3
Natural Science/Computer Science or Math Elective (MTH 113-115 or MTH 120-126)	6
Humanities Elective	3
Social Science Elective	3
Workplace Readiness Electives (Select 1 from BUS 190).....	1
Total	22

MAJOR COURSE REQUIREMENTS:

DDT 111 Fundamentals of Design Drafting Technology	3
DDT 112 Introductory Technical Drawing	3
DDT 103 Introduction to Computer Aided Drafting	3
DDT 114 Industrial Blueprint Reading	3
DDT 119 Advanced Electronic Drafting	3
DDT 121 Intermediate Technical Drawing	3
DDT 122 Advanced Technical Drawing	3
DDT 123 Intermediate CAD	4
DDT 131 Machine Drafting Basics	3
DDT 132 Architectural Drafting	3
DDT 213 Civil Drafting Plat Maps	3
DDT 225 Structural Steel Drafting	3
*DDT Elective	9
Total	46
TOTAL CREDITS	68

*Choose DDT Electives from:

DDT 115 Blueprint Reading for Machinist	3
DDT 116 Blueprint Reading for Construction	3
DDT 211 Intermediate Machine Drafting	3
DDT 212 Intermediate Architectural Drafting	3
DDT 224 Structural Concrete Drafting	3
DDT 235 Specialized CAD	4
DDT 236 Design Project	3
DDT 237 Current Topics in CAD	3
DDT 239 Independent Studies	3

DESIGN DRAFTING/COMPUTER AIDED DRAFTING

Certificate

This certificate offers computer aided drafting to those persons who have manual drafting skills. Departmental approval is required before registration.

COURSE REQUIREMENTS:

DDT 103 Introduction to Computer Aided Drafting	3
DDT 123 Intermediate CAD	4
DDT 237 Current Topics in CAD	3
Total	10

ELECTRICAL TECHNOLOGY

Associate of Applied Science Degree

The Electrical Technology Program prepares the student for immediate employment in industrial electrical maintenance and industrial/commercial and electrical construction.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
MTH 103 Introduction to Technical Math I or Higher than MTH 105	3
SPH 107 Fundamentals of Public Speaking or	

SPH 228 Group Communications	3
CIS 130 Introduction to Information Systems	3
Humanities elective	3
Natural Science/math elective (MTH 104 or Higher than MTH 105)	3
Social Science elective	3
Workplace Readiness Electives (Select 1 from BUS 190)	1
Total	22

MAJOR COURSE REQUIREMENTS:

ELT 105 DC and AC Electricity	6
ELT 113 Residential Wiring	6
ELT 120 Motors	6
ELT 133 Commercial/Industrial Wiring	6
ELT 206 OSHA Safety Standards	3
ELT 210 Motor Controls	6
ELT 218 Hydraulics and Pneumatics	6
ELT 221 Electronics for Electricians I	3
ELT 230 Programmable Controls	6
ELT 241 National Electric Code	3
ACR 111 Refrigeration Principles	3
Total	54

TOTAL CREDITS	76
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ELECTRICAL TECHNOLOGY

Certificate

Certificates are programs of study designed to give students specific skills in a technology. Should students later wish to pursue a degree program, all courses within the certificate will apply toward the degree. This certificate prepares the student for employment in industrial electrical maintenance and industrial/commercial electrical construction.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
MTH 103 Introduction to Technical Math I or Higher than MTH 105	3
SPH 107 Fundamentals of Public Speaking or	
SPH 228 Group Communications	3
CIS 130 Introduction to Information Systems	3
Workplace Readiness Electives (Select 1 from BUS 190)	1
Total	13

MAJOR COURSE REQUIREMENTS:

ELT 105 DC and AC Electricity	6
ELT 113 Residential Wiring	6
ELT 120 Motors	6
ELT 133 Commercial/Industrial Wiring	6
ELT 211 Motor Controls I	3
ELT 218 Hydraulics and Pneumatics	6
ELT 221 Electronics for Electricians I	3
ELT 230 Programmable Controls	6
ELT 241 National Electric Code	3
Total	45

TOTAL CREDITS	58
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Programs of Study
ELECTRICAL TECHNOLOGY
Electrical/HVAC Maintenance Option
Associate of Applied Science Degree

The Electrical/HVAC Maintenance Option prepares the student for employment in Maintenance with specific skills in Electrical, Refrigeration, and Hydraulics/Pneumatics. The areas of employment will include the hotel/motel/resort industry, apartment complexes, hospitals, nursing/retirement centers, and food processing.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
MTH 103 Introduction to Technical Math or Higher than MTH 105.....	3
SPH 107 Fundamentals of Public Speaking or SPH 228 Group Communications.....	3
CIS 130 Introduction to Computer Information.....	3
Humanities Elective	3
Social Science Elective	3
Natural Science or Math Elective (MTH 104 or Higher than MTH 105)	3
Workplace Readiness Elective (select 1 from BUS 190).....	1
Total	22

MAJOR COURSE REQUIREMENTS:

ELT 105 DC and AC Electricity.....	6
ELT 113 Residential Wiring	6
ELT 120 Motors.....	6
ELT 133 Commercial/Industrial Wiring.....	6
ELT 210 Motor Controls.....	6
ELT 218 Hydraulics and Pneumatics	6
ELT 231 Programmable Controls I	3
ACR 111 Refrigeration Principles	3
ACR 112 HVACR Service Procedures.....	3
ACR 115 Heating Systems I	6
ACR 205 Systems Sizing and Air Distribution	3
Total	54
TOTAL CREDITS.....	76

ELECTRICAL TECHNOLOGY
Electrical/HVAC Maintenance Option
Certificate

The Electrical/HVAC Maintenance Option certificate is designed to give students specific skills for employment in commercial maintenance. Areas of possible employment can include hotel/motel/resorts, apartment complexes, hospitals, civic centers, nursing/retirement centers, food processing and retail complexes. All courses in this certificate can apply toward the Electrical/HVAC Maintenance Option AAS degree.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
SPH 107 Fundamentals of Public Speaking or SPH 228 Group Communications.....	3
MTH 103 Introduction to Technical Math or Higher than MTH 105.....	3
CIS 130 Introduction to Information Systems	3

Workplace Readiness Elective (select 1 from BUS 190).....	1
Total	13

MAJOR COURSE REQUIREMENTS:

ELT 105 DC and AC Electricity.....	6
ELT 113 Residential Wiring	6
ELT 120 Motors.....	6
ELT 133 Commercial/Industrial Wiring.....	6
ELT 211 Motor Controls I.....	3
ELT 215 Pneumatics	3
ACR 111 Refrigeration Principles	3
ACR 112 HVACR Service Procedures.....	3
ACR 115 Heating Systems I	6
ACR 205 Systems Sizing and Air Distribution	3
Total	45
TOTAL CREDITS	58

ELECTRICAL TECHNOLOGY
Industrial Maintenance Option
Associate of Applied Science Degree

This program of study, developed with input from industry, will enable graduates to attain or upgrade skills in maintenance. The courses are related to industrial demands, enabling a student the opportunity to enhance proficiency in basic electricity, heating and cooling, hydraulics/pneumatics, and basic machinery skills including lathe, milling, precision measurement application, and industrial drawing specifications.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
SPH 107 Fundamentals of Public Speaking or SPH 228 Group Communications.....	3
MTH 103 Introduction to Technical Math or Higher than MTH 105.....	3
Natural Science/Math Elective (MTH 104 or Higher than MTH 105)....	3
CIS 130 Introduction to Computer Information.....	3
BUS190 Elective (select 1)	1
Humanities Elective	3
Social Science Elective	3
Total	22

MAJOR COURSE REQUIREMENTS:

ACR 111 Refrigeration Principles	3
DDT 114 Industrial Blueprint Reading* or DDT 115 Blueprint Reading for Machinists or DDT 116 Blueprint Reading for Construction	3
ELT 105 DC and AC Electricity.....	6
ELT 120 Motors.....	6
ELT 206 OSHA Safety Standards.....	3
ELT 210 Motor Controls	6
ELT 218 Hydraulics and Pneumatics	6
INT 112 Industrial Maintenance Safety Procedures.....	3
INT 233 Industrial Maintenance Metal Welding and Cutting Techniques.....	3
MTT 101 Basic Machining Technology.....	3

MTT 102 Intermediate Machining Technology	3
PMC 114 Mechanical Drives and Bearings	3
PMC 117 Pumps and Piping Systems	3
PMC 125 Industrial Processes	2

Total53

TOTAL CREDITS.....75

*DDT 114 Industrial Blueprint Reading is the preferred course for this option.

ELECTRICAL TECHNOLOGY Industrial Maintenance Option

Certificate

Certificates are programs of study designed to give students specific skills in a technology. Should students later wish to pursue a degree program, all courses within the certificate will apply toward the Industrial Maintenance Option AAS degree. This certificate prepares students for employment or upgrades skills in Industrial Maintenance.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
CIS 130 Introduction to Computer Information	3
SPH 107 Fundamentals of Public Speaking or SPH 228 Group Communications.....	3
MTH 103 Introduction to Technical Math or Higher than MTH 105.....	3
BUS 190 (Select 1).....	1
Total	13

MAJOR COURSE REQUIREMENTS:

ACR 111 Refrigeration Principles	3
DDT 114 Industrial Blueprint Reading* or DDT 115 Blueprint Reading for Machinists or DDT 116 Blueprint Reading for Construction	3
ELT 105 DC and AC Electricity.....	6
ELT 206 OSHA Safety Standards.....	3
ELT 210 Motor Controls.....	6
ELT 218 Hydraulics and Pneumatics.....	6
INT 112 Industrial Maintenance Safety Procedures.....	3
INT 233 Industrial Maintenance Metal Welding and Cutting Techniques.....	3
MTT 101 Basic Machining Technology.....	3
MTT 102 Intermediate Machining Technology	3
PMC 117 Pumps and Piping Systems.....	3
PMC 125 Industrial Processes	2
Total	44

TOTAL CREDITS.....57

*DDT 114 Industrial Blueprint Reading is the preferred course for this option.

Programs of Study

ELECTRONIC ENGINEERING TECHNOLOGY

Associate of Applied Science Degree

The Electronics Engineering Technology program is designed to prepare students for successful employment as electronic engineering aides and/or manufacturing test/service technicians. The Electronics Engineering Technology curriculum is based on the recommendation of local industry representatives and will provide the student with the attributes of a technician of choice.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 130 Technical Writing.....	3
MTH 112 Precalculus Algebra	3
MTH 113 Precalculus Trigonometry.....	3
SPH 107 Fundamentals of Public Speaking or SPH 228 Group Communications.....	3
CIS 130 Introduction to Information Systems.....	3
Social Science elective	3
BUS 190 (Choose 1).....	1
Total	22

ELECTRONICS TECHNOLOGY CORE REQUIREMENTS:

EET 101 DC Theory	3
EET 102 DC Laboratory	2
EET 120 Electronics Fabrication	1
EET 151 AC Theory.....	3
EET 152 AC Laboratory	2
EET 161 Solid State Theory	3
EET 162 Solid State Laboratory.....	1
EET 186 Microprocessor Basic.....	3
EET 201 Electronics Circuits.....	3
EET 202 Electronic Circuits Lab.....	1
EET 210 Digital Basics.....	3
EET 211 Digital Basics Lab.....	1
EET 230 Communications Basics	3
EET 231 Communications Basics Lab	1
EET 250 Microprocessors Intermediate	3
EET 251 Microprocessors Intermediate Lab.....	1
Total	34

TECHNICAL SPECIALTY COURSES:

CIS 288 Microcomputer Networking.....	3
EET 270 Fiber Optics.....	3
EET 271 Fiber Optics Lab	1
EET 289 Telecommunications Advanced	3
EET 290 Electronics Projects	1
CIS 211 BASIC Programming or CIS 251 C Programming.....	3
Total	14

TOTAL CREDITS.....70

Programs of Study
**ELECTRONIC ENGINEERING
 TECHNOLOGY**
TELECOMMUNICATIONS OPTION
Associate of Applied Science Degree

The Telecommunications Option for Electronic Engineering Technology is an associate's degree option for those students who desire careers in the rapidly growing field of data communications. The program was designed in cooperation with ADTRAN, a major producer of telecommunications equipment in North Alabama. The program is offered both day and evening at the Decatur campus.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
MTH 112 Precalculus Algebra	3
MTH 113 Precalculus Trigonometry	3
SPH 107 Fundamentals of Public Speaking or SPH 228 Group Communications	3
CIS 130 Introduction to Information Systems	3
Humanities Elective	3
Social Science Elective	3
Workplace Readiness Electives (select 1 from BUS 190)	1
Total	22

MAJOR COURSE REQUIREMENTS:

EET 101 DC Theory	3
EET 102 DC Laboratory	2
EET 120 Electronics Fabrication	1
EET 151 AC Theory	3
EET 152 AC Laboratory	2
EET 161 Solid State Theory	3
EET 162 Solid State Laboratory	1
EET 186 Microprocessors Basic	3
EET 201 Electronics Circuits	3
EET 202 Electronic Circuits Lab	1
EET 210 Digital Basics	3
EET 211 Digital Basics Lab	1
EET 230 Communications Basics	3
EET 231 Communications Basics Lab	1
EET 250 Microprocessors Intermediate	3
EET 251 Microprocessors Intermediate Lab	1
EET 260 Microprocessors Interfacing	3
EET 261 Microprocessors Interfacing Lab	1
Total	38

TECHNICAL SPECIALTY COURSES:

CIS 288 Microcomputer Networking	3
CIS 196 Microcomputer Applications (196B-Word, 196C-Excel)	2
CIS 251 C Programming	3
CIS 252 Advanced C Programming	3
CIS 196N Telecommunication Software	1
EET 289 Telecommunications Advanced	3
Total	15
TOTAL CREDITS	75

ELECTRONIC ENGINEERING TECHNOLOGY
Certificate

Certificates are programs of study designed to give students specific skills in a technology. Should students later wish to pursue a degree program, many courses within the certificate will apply toward the degree.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
MTH 112 Precalculus Algebra	3
SPH 107 Fundamentals of Public Speaking or SPH 228 Group Communications	3
CIS 130 Introduction to Information Systems	3
Workplace Readiness Elective (Select 3 from BUS 190)	3
Total	15

MAJOR COURSE REQUIREMENTS:

EET 101 DC Theory	3
EET 102 DC Laboratory	2
EET 120 Electronics Fabrication	1
EET 151 AC Theory	3
EET 152 AC Laboratory	2
EET 161 Solid State Theory	3
EET 162 Solid State Laboratory	1
EET 186 Microprocessors Basic	3
EET 201 Electronics Circuits	3
EET 202 Electronic Circuits Lab	1
EET 210 Digital Basics	3
EET 211 Digital Basics Lab	1
EET 250 Microprocessors Intermediate	3
EET 251 Microprocessors Intermediate Lab	1
Total	30

TECHNICAL SPECIALTY COURSES:

CIS 288 Microcomputer Networking	3
CIS 211 Basic Programming or CIS 251 "C" Programming	3
EET 290 Electronic Projects	1
Total	7
TOTAL CREDITS	52

EMERGENCY MEDICAL SERVICES (EMS)
Certificate

The Emergency Medical Services (EMS) program, approved by the Department of Public Health, utilizes nationally recognized standards to provide students not only 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 prehospital emergency patient care situations, but also skills in the emergency medical care of these patients. EMS educa-

tion includes legal/ethical considerations, treatment modalities/protocols within the scope of practice of the Emergency Medical Technician (EMT). Calhoun offers two certificate levels, Emergency Medical Technician-Basic and Emergency Medical Technician-Intermediate. The student may enter the program at either level, depending on prior experience and education.

As vital members of the Emergency Medical Services (EMS) team, Emergency Medical Technicians (EMTs) provide prehospital emergency care to the ill and injured patient, continuing that care until the patient is under the care of a qualified medical authority.

Basic EMTs have the knowledge and skills to provide basic life support to all patients whether the problem is trauma, cardiac, or childbirth. EMTs can splint fractures, bandage wounds, and stabilize a patient for transport to a medical facility.

Intermediate EMTs have the skills for advanced life support except for emergency drug administration. They record and interpret EKG findings, treat cardiac arrests due to ventricular fibrillation, reduce shock by intravenous fluid administration, and provide ventilations through intubation.

The EMS curriculum for EMT-Basic and EMT-Intermediate follows the National Standard Curriculum as developed by the U.S. Department of Transportation and meets the approval of the Alabama Department of Public Health. EMS courses are open to qualified students who met the general admission and entry level requirements. All students shall complete the ASSET Placement Test prior to admission to the EMT-Intermediate level of education. All EMS students must have completed and be certified in CPR (at the Health Care Provider level) and have completed EMS-113 before entering the clinical areas. Passing scores for all EMS courses is 75%. Graduates are eligible to apply for the National Registry examination, passing of which is required for State Licensure.

EMT-Basic and Intermediate graduates 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.

For more information contact Ann Wagnon, EMS Secretary, 306-2786 or Brenda Beasley, EMS Program Director, 306-2861.

EMT-BASIC CERTIFICATE

The EMT-Basic is one semester in length and consists of the following courses which are taught concurrently three days/evenings per week:

EMS 140 EMT Preparatory and Prehospital EMS Operations	2
EMS 141 EMT Assessment and Trauma Related Injuries	3
EMS 142 EMT Medical Emergencies and Pediatric Care.....	3
*EMS 143 EMT Basic Clinical Competencies	1
**EMS 145 Emergency Department Preceptorship	2

*Includes 45 hours of clinical education. (Insurance Required).

**Optional course includes 45 hours of clinical education.

EMT INTERMEDIATE CERTIFICATE

The EMT-Intermediate level consists of eight courses taught in two semesters. Each semester builds on the preceding semester. Students must successfully pass all seven courses to be eligible for the National Registry Examination. The courses include the following (see course descriptions.)

Semester I:

EMS 180 Pre-hospital Operations for Advanced EMS Providers.....	3
EMS 181 Preparatory Management for Advanced EMS Providers	3
EMS 182 Cardiovascular Electrophysiology and Management	3

Semester II:

EMS 183 EMS Advanced Psychomotor Competencies I	2
*EMS 184 EMS Advanced Clinical Competencies II.....	4
*EMS 185 EMS Advanced Life Support Field Preceptorship I.....	3
EMS 267 Basic Trauma Life Support Provider	1
EMS 269 Pediatric Advanced Life Support	1

*Includes 255 hours of clinical education. (Insurance Required)

EMT-Basic/EMT-Intermediate GENERAL ADMISSION REQUIREMENTS

There are Essential Functions required for students entering and participating in the EMT-Basic and EMT-Intermediate curricula. As a student, you must:

PHYSICAL DEMANDS

- (1) have the physical ability to walk, climb, crawl, bend, push, pull, or 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 pounds (250 pounds with assistance);
- (3) see different color spectrums;
- (4) have good eye-hand coordination and manual dexterity to manipulate equipment, instrumentation, and medications;

PROBLEM SOLVING ABILITIES (Data Collection, Judgment, Reasoning)

- (5) be able to send and receive verbal messages as well as operate appropriate communication equipment of current technology;
- (6) be able to collect facts and to organize data accurately, communicate clearly both orally and in writing in the English language at the ninth-grade reading level or higher;
- (7) be able to differentiate between normal and abnormal findings in human physical conditions by 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 be aware of standards and rules that govern practice;
- (10) implement therapies based on mathematical calculations;

WORKER CHARACTERISTICS

- (11) possess 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;

Programs of Study

- (15) be able to work shifts of 24 hours in length;
- (16) be able to tolerate being exposed to extremes in the environment including variable aspects of weather, hazardous fumes, and noise; and
- (17) possess eyesight of a minimum of one eye correctable to 20/20 vision and be able to determine directions according to a map; and students who desire to drive an ambulance must possess approximately 180 degrees peripheral vision capacity,
- (18) 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.

ENTRY LEVEL REQUIREMENTS

EMT-BASIC

Entry level requirements for students entering and participating in EMS education are as follows:

1. Possess a GED or high school diploma;
2. Meet all institutional admission requirements;
3. Successfully complete within the last 12 months Basic Cardiac Life Support for the Health Care Provider;
4. Comply with "Essential Functions" of the program or attach documentation to the program application form of those essential functions of which the student is not in compliance (for review by Calhoun's American Disabilities Coordinator);
5. Provide an acceptable physical examination by a licensed medical doctor or doctor of osteopathy to include:
 - a. Written documentation (on a form provided by the program) of the physician's opinion regarding the prospective student as follows:
 - have emotional and physical ability to carry out the normal activities of prehospital emergency care;
 - compliance with the "Essential Functions" for the program; and
 - health history.
 - b. Up-to-date immunizations to include:
 - Tetanus/D within past 10 years;
 - MMR Vaccine prior to 1969 or Rubella Titer of 1:8 or above is sufficient in lieu of MMR;
 - RPR;
 - Two-step TB Skin test (Chest x-ray, if positive); and
 - Begin or have had the series of Hepatitis B vaccinations, or sign a waiver regarding the series of Hepatitis B vaccinations;

Health care workers who have direct patient contact or handle potentially infective materials have an increased risk for contracting Hepatitis B. A series of vaccinations for Hepatitis B is recommended by the Centers for Disease Control (CDC) and the Alabama Department of Public Health for persons who are at increased risk of infection with Hepatitis B. Cost of vaccinations is the student's responsibility.
 - 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 approximately 180 degrees peripheral vision capacity);
 - Color Perception; and
 - being able to send and receive verbal messages.
6. Each student enrolled in EMS education must have verification of the following:
 - a. current professional liability insurance offered through the

college (due 1st day of class); and

- b. current health/hospitalization/accident insurance and/or waiver of liability.

EMT-INTERMEDIATE

Requirements for students entering the courses at the EMT-Intermediate level are:

1. Complete all EMT-Basic entry requirements;
2. Possess a current Alabama license as an EMT-Basic or;
3. Have successfully completed a National Standard Training Curriculum (NSTC) course for the EMT-Basic within the past 12 months (students must, however, possess a current Alabama license as an EMT-Basic prior to entering the second semester of EMT-Intermediate or they will be required to exit the program).
4. Successfully complete an entrance examination with a score of 75% or better, if entering from an EMS program other than the Calhoun Community College EMS Program or if the student completed Calhoun's EMS program more than two years ago.

Licensure

Upon successful completion of the EMT-Basic/EMT-Intermediate courses, the student is eligible to apply for the respective National Registry examination administered by the State of Alabama, Department of Public Health. Licensure applicants must be at least 18 years of age.

All students entering EMS education courses may be 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. Things which may affect their licensure compliance include:

1. Not being 18 years of age or older;
2. Convicted of any criminal act, including any DUI convictions;
3. Addicted to the use of intoxicating liquors or controlled substances at the present or in the past; and
4. Not possessing 180 degrees peripheral vision capacity or a valid driver's license (for licensure as an Ambulance Driver).

PROGRESSION FROM EMT-BASIC TO EMT-INTERMEDIATE LEVEL

To complete individual certificates in the EMS curriculum, students must:

1. Progress through the required courses of the EMS curriculum in the prescribed sequence;
2. Attain an average of 75% in all coursework to include didactic, laboratory, clinical, and/or field internship training;
3. Submit acceptable physical examinations at intervals not to exceed 12 months;
4. Maintain current professional liability, health, and hospitalization insurance while enrolled in the EMS courses;
5. Maintain annual Basic Cardiac Life Support Certification for the Health Care Provider;
6. Comply with the "Essential Functions" required for EMT-Basic and EMT-Intermediate courses;
7. Comply with all institutional and any cooperating health agency policies, procedures, and rules of behavior as published for the students.

Readmission:

To be readmitted to the EMS program, the student must meet the criteria for readmission to the EMS program and college as stated in the catalog and must contact the Allied Health Department to schedule an appointment with EMS faculty to discuss options for successful academic achievement.

The readmission of a student is based on availability of space and student-teacher ratio provided the student is eligible to return. The student will be readmitted one time only when he/she fails to progress for academic reasons. The student must have only one course to repeat.

Any student requesting readmission must have a minimum Grade Point Average of 2.00 on all course work attempted.

A Student Health Examination Form will be required if the time and need indicated is evident as well as liability insurance renewal, tuberculin skin testing (PPD) and CPR course completion.

When there is probable cause, the Allied Health Department and the Health and Physical Education Division reserve the right to require a prospective student, a student currently enrolled in the 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 Allied Health Department. The Allied Health Department will provide a specific form for this purpose when applicable. All reports will be reviewed by the Allied Health Department to determine if a student may be admitted, readmitted, or retained in the EMT courses.

**EMERGENCY MEDICAL SERVICES
(Special Course Offerings)**

Calhoun's special EMS course offerings allow students in other programs to take advantage of the pre-EMS related courses to enhance their knowledge of emergency care. EMS graduates, as well as graduates of other health-care programs, may take courses for professional development, utilizing the program's "state of the art," high technology equipment. Listed below are the special courses offered through the EMS Program.

EMS 100 Cardiopulmonary Resuscitation I	1
EMS 103 First Aid.....	1
EMS 105 First Responder.....	3
EMS 106 Medical Terminology for Health Profession	2
EMS 107 Emergency Vehicle Operator Ambulance	1
EMS 108 Directed Studies in EMS I	1
EMS 109 Directed Studies in EMS II	1
EMS 113 Infection Control for Health Professions	1
EMS 115 Special Skills for Health Related Professions	1
EMS 120 Vehicle Extrication	2
EMS 150 EMT Basic Refresher.....	2
EMS 151 Basic Trauma Management.....	1
EMS 152 Defibrillation.....	1
EMS 153 EMS Dispatcher	3
EMS 190 EMT Intermediate Refresher	2
EMS 265 Paramedic Refresher.....	3
EMS 266 Advanced CV Life Support Provider	1
EMS 267 Basic Trauma Life Support Provider	1
EMS 273 EKG Interpretation.....	2
EMS 280 Basic Life Support Instructor	1

On request, the following education courses may be offered: **Pediatric Basic Trauma Life Support (PBTLS)**, **Automated External Defibrillation (AED)**, **Pediatric Advanced Life Support (PALS)**.

Policies for EMS are subject to change at any time. Written notice will be given to students enrolled in EMS courses prior to implementation of policy change.

**MACHINE TOOL TECHNOLOGY
Machinist Option**

Associate of Applied Science Degree

The machinist option of the machine tool technology degree program prepares students to be employed as precision machinists, general machinists and machine operators. Students choosing an AAS degree should meet with a machine tool technology program advisor prior to enrollment.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I.....	3
CIS 146 Microcomputer Applications.....	3
MTH 103 Introduction to Technical Mathematics I.....	3
SPH 107 Fundamentals of Public Speaking or SPH 228 Group Communications.....	3
Humanities elective	3
Science or Math Elective (MTH 104 or Higher than MTH 105).....	3
Social Science elective.....	3
Workplace Readiness Elective (Select 1 from BUS 190)	1
Total	22

MAJOR COURSE REQUIREMENTS:

MTT 101 Basic Machining Technology.....	3
MTT 102 Intermediate Machining Technology	3
MTT 104 Basic Machining Calculations.....	3
MTT 105 Lathe Setup and Operations	6
MTT 106 Milling Machine Operations.....	6
MTT 121 Basic Blueprint Reading for Machinists.....	3
MTT 131 Introduction to Metrology	3
MTT 143 Geometric Dimensioning and Tolerancing.....	2
MTT 181 Special Topics in Machine Tool Technology.....	2
MTT 201 Advanced Machining Technology.....	6
MTT 202 Machine Maintenance and Repair	3
MTT 281 Special Topics in Machine Tool Technology.....	2

Advanced Technical Specialization Courses:

MTT 110 Handbook Functions	3
MTT 217 Orientation to CNC	3
Total	48
TOTAL CREDITS.....	70

Programs of Study
**MACHINE TOOL TECHNOLOGY
 MACHINIST OPTION**
Certificate

A certificate is a program of study designed to give students specific skills in a technology. Should students later wish to pursue a degree, all courses in the certificate will apply toward the degree. Students choosing a certificate program should meet with a program advisor prior to enrollment.

ENG 101 English Composition I	3
MTH 103 Introduction to Technical Mathematics I.....	3
CIS 146 Microcomputer Applications.....	3
SPH 107 or SPH 228 Fundamentals of Public Speaking or Group Communications	3
Workplace Readiness Elective (Select 1 from BUS 190)	1
Total	13

MAJOR COURSE REQUIREMENTS

MTT 101 Basic Machining Technology.....	3
MTT 102 Intermediate Machining Technology	3
MTT 104 Basic Machining Calculations.....	2
MTT 105 Lathe Setup and Operations	6
MTT 106 Milling Machine Operations.....	6
MTT 121 Basic Blueprint Reading for Machinists.....	3
MTT 131 Introduction to Metrology	3
MTT 143 Geometric Dimensioning and Tolerancing.....	2
MTT 181 Special Topics in Machine Tool Technology.....	2
MTT 201 Advanced Machining Technology.....	6
MTT 202 Machine Maintenance and Repair	3
MTT 281 Special Topics in Machine Tool Technology.....	3

Total42

TOTAL CREDITS.....55

**MACHINE TOOL TECHNOLOGY
 COMPUTER NUMERICAL CONTROL (CNC) OPTION**
Associate of Applied Science Degree

The Computer Numerical Control (CNC) option of the Machine Tool Technology program prepares students to be employed as NC/CNC (Numerical Control/Computer Numerical Control) programmers and operators. Students choosing the AAS degree program should meet with a program advisor prior to enrollment.

ENG 101 English Composition I	3
MTH 103 Introduction to Technical Mathematics I.....	3
CIS 146 Microcomputer Applications.....	3
SPH 107 or SPH 228 Fundamentals of Public Speaking or Group Communications	3

Humanities Elective	3
Science or Math Elective	3
Social Science Elective	3
Workplace Readiness Elective (Select 1 from BUS 190)	1
Total	22

MAJOR COURSE REQUIREMENTS

MTT 142 Advanced Machining Calculations.....	2
MTT 200 Industrial Processes.....	3
MTT 214 Computer Numerical Control Graphics Programming Turning.....	3
MTT 215 Computer Numerical Control Graphics Programming Milling	3
MTT 242 CNC Programming.....	3
CNC 111 Introduction to Computer Numerical Control	3
CNC 112 Computer Numeric Control Turning	3
CNC 113 Computer Control Milling	3
CNC 115 Basic Math for Computerized Numerical Control.....	2
CNC 181 Special Topics in Computerized Numerical Control	3
CNC 211 Computer Numerical Control.....	2
CNC 212 Advanced Computer Numerical Control Turning	2
CNC 213 Advanced Computer Numerical Control Milling.....	2
CNC 222 Computer Numerical Control Graphics Turning.....	3
CNC 223 Computer Numerical Control Graphics Milling	3
CNC 230 Computer Numerical Control Special Projects.....	3

Advanced Technical Specialization Courses:

MTT 110 Handbook Functions	3
MTT 217 Orientation to CNC	3

TOTAL CREDITS.....71

**MACHINE TOOL TECHNOLOGY
 COMPUTER NUMERICAL CONTROL (CNC) OPTION**
Certificate

The Computer Numerical Control (CNC) option of the Machine Tool Technology program prepares students to be employed as NC/CNC (Numerical Control/Computer Numerical Control) programmers and operators. Students choosing a certificate program should meet with a program advisor prior to enrollment.

ENG 101 English Composition I	3
MTH 103 Introduction to Technical Mathematics I.....	3
CIS 146 Microcomputer Applications.....	3
SPH 107 or SPH 228 Fundamentals of Public Speaking or Group Communications	3
Workplace Readiness Elective (Select 1 from BUS 190)	1

Total13

MAJOR COURSE REQUIREMENTS

MTT 142 Advanced Machining Calculations.....	2
MTT 200 Industrial Processes.....	3
MTT 214 Computer Numerical Control Graphics Programming Turning.....	3

MTT 215 Computer Numerical Control Graphics Programming Milling	3
MTT 242 CNC Programming	3
CNC 111 Introduction to Computer Numerical Control	2
CNC 112 Computer Numeric Control Turning	3
CNC 113 Computer Control Milling	3
CNC 115 Basic Math for Computerized Numerical Control	2
CNC 181 Special Topics in Computerized Numerical Control	3
CNC 211 Computer Numerical Control	2
CNC 212 Advanced Computer Numerical Control Turning	2
CNC 213 Advanced Computer Numerical Control Milling	2
CNC 222 Computer Numerical Control Graphics Turning	3
CNC 223 Computer Numerical Control Graphics Milling	3
CNC 230 Computer Numerical Control Special Projects	3
TOTAL CREDITS.....	55

MACHINE TOOL TECHNOLOGY MANUFACTURING OPTION

Associate of Applied Science Degree

This Machine Tool Technology program is designed to prepare students for successful employment in the manufacturing industries by providing them with basic skills in machine tool technology and the required computational, communication and workplace readiness skills. Students choosing this AAS program should meet with a program advisor prior to enrollment.

ENG 101 English Composition I	3
MTH 103 Introduction to Technical Mathematics I	3
CIS 146 Microcomputer Applications	3
SPH 107 or Fundamentals of Public Speaking or SPH 228 Group Communications	3
Humanities Elective	3
Natural Science, CIS or Math Elective	3
Social Science Elective	3
QCT 102 Statistics I for Quality Control	3
BUS 190 Workplace Readiness Elective	1
Total	25

MAJOR COURSE REQUIREMENTS

MTT 101 Basic Machining Technology	3
MTT 102 Intermediate Machining Technology	3
MTT 105 Lathe Set-Up and Operations	6
MTT 106 Milling Machine Operations	6
MTT 121 Basic Blueprint Reading	3
MTT 131 Introduction to Metrology	3
MTT 143 Geometric Dimensioning and Tolerancing	2
MTT 201 Advanced Machining Technology	6
MTT 202 Machine Maintenance & Repair	3
MTT 217 Orientation to CNC	3
CNC 112 Computer Numerical Control Turning	3
CNC 212 Adv. Computer Numerical Control Turning	2
**MTT Elective	3

****Manufacturing Electives:**

ENG 130 Technical Report Writing	3
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PMC 123 Materials and Processes or PMC 124 Industrial Materials	3
QCT 103 Statistical Process Control	3
QCT 205 Continuous Improvement Techniques	3
MTT 215 CNC Graphics Programming Milling	3
TOTAL CREDITS.....	71

MACHINE TOOL TECHNOLOGY MANUFACTURING OPTION

Certificate

This Machine Tool Technology program is designed to prepare students for successful employment in the manufacturing industries by providing them with basic skills in machine tool technology and the required computational, communication and workplace readiness skills. Should students later wish to pursue a degree program, many courses within this certificate program will apply toward the degree. Students choosing this certificate program should meet with a program advisor prior to enrollment. Courses may be taken in any sequence as long as prerequisites are met.

ENG 101 English Composition I	3
MTH 103 Introduction to Technical Mathematics I	3
CIS 146 Microcomputer Applications	3
SPH 107 or SPH 228 Fundamentals of Public Speaking	3
QCT 102 Statistics I for Quality Control	3
BUS 190 Workplace Readiness Elective	1
Total	16

MAJOR COURSE REQUIREMENTS

MTT 101 Basic Machining Technology	3
MTT 102 Intermediate Machining Technology	3
MTT 105 Lathe Set-Up and Operations	6
MTT 106 Milling Machine Operations	6
MTT 121 Basic Blueprint Reading	3
MTT 131 Introduction to Metrology	3
MTT 143 Geometric Dimensioning and Tolerancing	2
MTT 201 Advanced Machining Technology	6
MTT 202 Machine Maintenance & Repair	3
MTT 217 Orientation to CNC	3
CNC 112 Computer Numerical Control Turning	3
CNC 212 Adv. Computer Numerical Control Turning	2
Total	43
TOTAL CREDITS.....	59

MISSILE AND MUNITIONS TECHNOLOGY

Associate of Applied Science Degree BASIC

(U.S. Army Ordnance Missile and Munitions Center and School Only)

This is a joint program between the U.S. Army Ordnance Missile and Munitions Center and School and Calhoun Community College to afford career military personnel the opportunity to earn college credits

Programs of Study

through a combination of civilian and military education. Students may apply from 27 to 42 semester hours of USAOMMCS course credits toward the applied science degree. A minimum of 27 semester hours of OMMCS credits is required to qualify for this program.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II or Humanities Elective	3
MTH 100, 103 or Higher.....	3
SPH 107 Fundamentals of Public Speaking.....	3
Natural Science Elective	4
Social Science Elective	3
CIS Elective	3

Total22

MAJOR COURSE REQUIREMENTS27-42

*If military credits are less than 42 hours, the deficiency must be made up with General Electives (100 level or above)

TOTAL CREDITS.....64

MISSILE AND MUNITIONS TECHNOLOGY

Associate of Applied Science Degree OPTION I. CALIBRATION SPECIALIST

(U.S. Army Ordnance Missile and Munitions Center and School Only)

This is a joint program between the U.S. Army Ordnance Missile and Munitions Center and School and Calhoun Community College to afford career military personnel the opportunity to earn college credits through a combination of civilian and military education. Students may apply from 27 to 42 semester hours of USAOMMCS course credits toward the applied science degree. A minimum of 27 semester hours of OMMCS credits is required to qualify for this program.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II or Humanities Elective	3
MTH 100, 103 or Higher.....	3
SPH 107 Fundamentals of Public Speaking.....	3
Natural Science Elective	4
Social Science Elective	3
CIS 146 Microcomputer Applications.....	3

Total22

MAJOR COURSE REQUIREMENTS:

Total.....27-42*

*Credits must be from calibration MOS, (i.e., 35H, 35Y, etc). If military credits are less than 42 hours, the deficiency must be made up with General Electives (100 level or above)

TOTAL CREDITS.....64

MISSILE AND MUNITIONS TECHNOLOGY

Associate of Applied Science Degree

OPTION II. TECHNICAL MANAGEMENT

(U.S. Army Ordnance Missile and Munitions Center and School Only)

This is a joint program between the U.S. Army Ordnance Missile and Munitions Center and School and Calhoun Community College to afford career military personnel the opportunity to earn college credits through a combination of civilian and military education. Students may apply from 27 to 42 semester hours of USAOMMCS course credits toward the applied science degree. A minimum of 27 semester hours of OMMCS credits is required to qualify for this program.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II or Humanities Elective	3
MTH 100, 103 or Higher.....	3
SPH 107 Fundamentals of Public Speaking.....	3
Natural Science Elective	4
ECO 231 Economics I.....	3
CIS Elective	3

Total22

MAJOR COURSE REQUIREMENTS:

Total.....27-42*

*For soldiers with skill levels 40 and above. If military credits are less than 42 hours, the deficiency must be made up with General Electives (100 level or above)

TOTAL CREDITS.....64

MUSIC – CHURCH MUSIC Certificate

MUS 110 Basic Musicianship.....	3
MUS 111 Music Theory I.....	3
MUS 112 Music Theory II	3
MUL 111 Class Voice I	1
MUL 112 Class Voice II.....	1
MUL 101 Class Piano I.....	1
MUL 102 Class Piano II.....	1
MUS 251 Introduction to Conducting.....	3
MUS 270 Organization of the Church Music Program.....	3
MUS 271 Church Music Literature	3
MUS 272 The Children's Choir	3

TOTAL25

MUSIC INDUSTRY COMMUNICATIONS

Associate of Applied Science Degree

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.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
Math elective	3
SPH 107 Fundamentals of Public Speaking.....	3
MCM 253 Computer Lit. for MUS.....	3
Humanities elective	3
Natural Science/Math elective	3
Social Science elective	3
Total	21

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 or MUP electives	6
MUE or other Performance electives	6
MUS 111 Music Theory I.....	3
MUS 112 Music Theory II	3
MUS 113 Music Theory III	3
MUS 211 Music Theory IV	3
MUS 291 Musical Acoustics.....	3
Total Credits	72

NURSING/ADN: BASIC

Associate of Applied Science Degree

PHILOSOPHY AND OBJECTIVES

The philosophy of the nursing program was developed by the entire nursing faculty. Below are statements of the faculty's beliefs.

INDIVIDUAL

We believe that the individual is a unique, unified bio-psycho-social being who has needs. An individual's development progresses through the different life stages. Individuals seek to meet their needs and achieve physical, psychological, and social well-being. The individual's needs are organized in a hierarchy, and as lower needs are satisfied, the individual is motivated to strive to meet higher level needs. The individual's needs are satisfied by using dynamic, adaptive mechanisms which can be biological, psychological, and sociological.

We believe that individuals exist in society with the family as the basic unit. Society provides values, beliefs, and cultural diversity that give direction and meaning to an individual's experiences. Individuals are entitled to be treated with dignity and respect. The environment which surrounds individuals is continuously changing and subjects the individual to external stimuli which influences adaptive behaviors.

HEALTH

We believe that health is a dynamic state that exists when the individual's needs are satisfied and homeostasis is achieved. A state of health implies that individuals are effectively adapting to stimuli which influence the satisfaction of needs.

ILLNESS

We believe that illness is a state which results when an individual is not effectively adapting to stimuli and cannot satisfy needs or achieve homeostasis. An individual's behavioral responses are simple problems when they are common, singular in nature, easily identifiable, and resolved with predictable outcomes. An individual's behavioral responses are complex problems when they are multiple and require analysis of the variety of contributing patho/physiological and psychodynamic factors. An individual's behavioral responses which indicate illness can be organized by identification of the need which cannot be satisfied.

NURSING

We believe that nursing is a collaborative and/or independent process in which the nurse interacts with individuals where potential or actual health problems exist. Nursing applies documented scientific knowledge through the use of the systematic nursing process of problem solving. The purpose of nursing activity is to promote the individual's adaptive behavior in any setting.

NURSING EDUCATION

We believe the nursing education consists of education courses and nursing courses. General education courses are necessary to promote the student's critical thinking, understanding of self, and the individual as a member of society. Nursing courses provide sequential nursing knowledge and experience which enable the student to develop skills, acquire knowledge and gain insights necessary for the safe practice of nursing. The educational process is a shared responsibility between faculty and student where faculty serve as facilitators of learning. Education is a life long process that has a beneficial effect on the learner and society.

TEACHING LEARNING PROCESS

We believe that all individuals have the right to achieve self-actualization and that society provides opportunities for this achievement. Learning is continuous throughout the life cycle. Learning is an active process that results in a change in behavior; therefore, self-understanding and self-evaluation are emphasized. Our teaching is based on the following statements:

1. Learning is meaningful when there are goals.
2. Learning is enhanced when the climate is non-judgemental.
3. Learning is meaningful and lasting when there is opportunity for application.
4. Learning proceeds from the familiar to the new and from the concrete to the abstract.
5. Learning takes place when the learner is motivated by an awareness of the learner's needs.

Programs of Study

ASSOCIATE DEGREE NURSE

We believe that the associate degree nurse functions in a variety of settings using critical thinking, skill, and judgment. The associate degree nurse provides nursing care to individuals of all ages from a variety of sociocultural backgrounds who are experiencing acute or chronic illnesses, a need for diagnostic evaluation, a need for information or support to maintain or promote health and/or a need for rehabilitation. The associate degree nurse is prepared to seek assistance from other health care team members when the situation encountered is beyond the nurse's knowledge and experience. The associate degree nurse in this state functions within the legal scope of practice as outlined in the Nurse Practice Act of the State of Alabama and within the ethical guidelines of the professional as specified by the American Nurses' Association.

PROGRAM OBJECTIVES

The graduate of this nursing program should be able to:

1. Provide nursing care to patients of all ages from a variety of sociocultural backgrounds who are experiencing:
 - a. acute or chronic illnesses
 - b. a need for diagnostic evaluation
 - c. a need for information or support to maintain health
 - d. a need for rehabilitation
2. Provide nursing care/patient advocacy to individuals or groups of patients utilizing technology in a cost-effective manner.
3. Utilize the nursing process based on current knowledge of nursing, the sciences and the humanities to assist individuals to meet their needs and achieve/maintain health by:
 - a. assessing a patient's total health needs.
 - (1) Assembles data from available resources.
 - (2) Collaborates with other health care providers with regard to database.
 - (3) Detects changes that result in a maladaptive state that affects ability to meet individual needs.
 - b. analyzing data to formulate nursing diagnoses.
 - c. developing a nursing plan aimed at promoting, maintaining and/or restoring health.
 - (1) Participates with the patient, significant others, and other health care team members to establish patient-centered goals.
 - (2) Prioritizes plan of care.
 - d. implementing a plan according to priority needs.
 - (1) Safely performs nursing interventions using cognitive, psychomotor and affective capabilities.
 - (2) Utilize appropriate communication with the patient, significant others, and health care team members.
 - (3) Implements teaching plans to meet the patient's specific needs.
 - e. evaluating goal achievement, modifying when necessary, with the patient, significant others, and health care team members.
4. Value professional development and nursing research in

advancing nursing practice by:

- a. participating in continuing education.
 - b. recognizing own capabilities and limitations.
 - c. supporting professional organizations in nursing.
 - d. practicing within the ANA Code of Ethics and the legal definition of nursing.
5. Delegate appropriately to other health care providers.
 6. Seek assistance from other health care team members when the situation encountered is beyond the nurse's knowledge and experience.

This program is designed to educate individuals in providing nursing care to patients of all ages in a variety of health care settings. The program can be completed in five (5) semesters for a total of 72 semester hours. Nursing courses must be taken in sequence as offered. General education courses may be completed early; or otherwise must be taken as sequenced in the curriculum.

The Calhoun Nursing program has the full approval of the Alabama Board of Nursing and is accredited by the National League for Nursing Accrediting Commission (NLNAC). Accreditation information regarding the nursing program may be obtained from the National League for Nursing Accrediting Commission, 350 Hudson Street, New York, 10014. Telephone (212) 989-9393.

The Associate of Applied Science Degree is awarded by Calhoun Community College to the student who completes all requirements of the nursing program. The graduate will be eligible to apply to write the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Completion of the academic program in nursing in no way assures the student of licensure. Legal requirements for licensure may be found in the **Alabama Board of Nursing Administrative Code**. Applicants who have been found guilty of any offenses listed in the **Code** may be denied licensure by the Alabama Board of Nursing and any other state board of nursing. The Alabama Board of Nursing, 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.

Upon application for licensure, the individual will be required to answer the following questions found on the application:

Have you ever been arrested or convicted of a criminal offense other than a moving traffic violation? YES_____ NO_____

Have you within the last 5 years abused drugs/alcohol or been treated for dependency to alcohol or illegal chemical substances? YES_____ NO_____

Have you ever been arrested or convicted for driving under the influence of drugs/alcohol? YES_____ NO_____

Have you within the last 5 years received inpatient or outpatient treatment or been recommended to seek treatment for mental illness?
YES _____ NO _____

Have you ever had disciplinary action or is action pending against you by any state board of nursing? YES _____ NO _____

Any applicant who answers "YES" to the questions regarding criminal conviction, alcohol/drug abuse/treatment or mental illness **must** provide the Alabama Board of Nursing with a full 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 who 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 Chairperson of the Nursing Department or Chairperson of the Health and Physical Education Division.

Be advised that a criminal and/or drug history could result in denial or permission to take the licensure examination.

PREREQUISITE COURSES

*ENG 101, English Composition I	3
SPH 107, Fundamentals of Public Speaking.....	3
PSY 200, General Psychology	3
*MTH Elective (may choose from the following)	3
MTH 100, Intermediate College Algebra	
MTH 112, Precalculus Algebra	
MTH 116, Mathematical Applications	
Total	12

*Prerequisite: Satisfactory score on the math/English placement test or ACT/SAT tests or appropriate developmental course work.

SEMESTER I

HPS 100, Safety Issues for Clinical Practice.....	1
NUR 241, Basic Pharmacology	1
NUR 110, Fundamentals of Nursing	6
NUR 131, Health Assessment	1
BIO 201, Human Anatomy and Physiology I*	4

PSY 210, Human Growth and Development	3
Total	16

* Prerequisite: BIO 103 or successful completion of placement exam

SEMESTER II

BIO 202, Human Anatomy and Physiology II	4
NUR 251, Adult Nursing I.....	5
NUR 271, Maternal Newborn Nursing	4
Total	13

SEMESTER III

BIO 220, General Microbiology	4
NUR 265, Advanced Nursing I.....	6
NUR 266, Advanced Nursing II.....	6
Total	16

SEMESTER IV

NUR 242, Advanced Pharmacology.....	2
NUR 267, Advanced Nursing III	6
NUR 291, Transition into Nursing Practice.....	3
NUR 201, Specialized Area of Study.....	1
Humanities Elective	3
Total	15

TOTAL CREDITS.....72

ADMISSION POLICY

Beginning Fall Semester, 2000, the Associate Degree Nursing Program will admit students based on selective admission criteria.

NOTE: Individuals presently on the waiting list as of August 24, 1998, will be given an opportunity for admission according to placement on the list. General education core courses taken at the time the individual's name was placed on the list will be accepted only for students on the waiting list. All applicants accepted in nursing will take the new semester curriculum nursing courses.

ADMISSION REQUIREMENTS

General Admission Requirements

Students interested in pursuing the Associate of Applied Science Degree in Nursing at Calhoun Community College must:

- Submit a completed application form to the Admission and Registrar's Office at Calhoun Community College and be accepted for enrollment by the College.
- Request and have processed an evaluation of all transcripts from accredited colleges or universities previously attended by the student.
- Complete prerequisite general academic courses (ENG 101, SPH 107, PSY 200 and MTH 100 or MTH 112 or MTH 116) with a minimum grade of "C" in each course.

Programs of Study

Nursing Admission Process

Students who have met the pre-requisite course requirements are eligible to apply for admission to the Associate Degree Nursing program. Application forms may be obtained from the Nursing Department (306-2804 or 306-2794) or by writing to the Nursing Department, Calhoun Community College, P. O. Box 2216, Decatur, Alabama 35609-2216.

- Application must be submitted by May 30th for consideration for fall class.
- Applicants may apply at any time during the year, provided admission criteria is met.
- Applications received after May 30th will be considered for fall enrollment **only as space is available**.
- Applications must be resubmitted annually. A waiting list is no longer maintained.

Selection Process

Students are selected for admission to the Associate Degree Nursing program based on academic performance and space available. Meeting minimum requirements does not guarantee admission to the program. Admission to the nursing program will be a competitive process based on:

- Grade Point Average for each of the four (4) pre-requisite courses (ENG 101, SPH 107, PSY 200, MTH 100 or MTH 112 or MTH 116).
- Completion of additional required general education courses with a minimum grade of "C" in each course (BIO 201, BIO 202, PSY 210, BIO 220, Humanities Elective). For each course successfully passed, 0.1 point will be added to the student's GPA. (Example: Student with a 2.5 GPA has taken three other required general education courses, each adding .1 to GPA to equate to $2.5 + .3 = 2.80$).

Class size is limited. An admission Committee will evaluate each applicant's academic performance to select applicants with the strongest academic record.

NOTE: BIO 103 (General Biology) may be required or successful completion of placement exam for the student to be eligible to take BIO 201 on enrollment in the program.

General education core courses are open to any student who meets Calhoun's admission requirements. A grade of "C" or above will be required for passing each course required for the AD Nursing Program that is taken after August 31, 1993. The applicant must maintain at least a "C" average (2.0 grade point average on a 4.0 scale) on all courses taken and/or transferred to Calhoun.

The new semester nursing curriculum will be in effect fall semester, 1998. Once enrolled in the program, students must take courses sequentially as outlined. Students must successfully pass each nursing course (NUR Prefix) to progress in the program.

ENROLLMENT REQUIREMENTS

It is recommended that all nursing students be immunized against Hepatitis B prior to entering the first nursing course. At the time of registration for the first nursing course, students will be required to present proof that they have received the three (3) Hepatitis B vaccinations or proof of immunity to the hepatitis virus. (The three immunizations take at least six months to complete). Students who choose not to have these immunizations must sign a

form indicating their refusal of the vaccinations prior to being allowed to register for nursing. Additionally, the student must have the following documentation at registration for Semester I to complete enrollment process in the Associate Degree Nursing Program:

1. documentation of current cardiopulmonary resuscitation (CPR) course completion.
2. a current Student Health Form that has been completed by a licensed physician or nurse practitioner. (Form will be furnished when student is notified of admission to the Nursing Program.)
3. Documentation of two-step Mantoux skin test (PPD), or chest x-ray, if PPD is positive, indicating he/she is free of tuberculosis.
4. Verification of immunization for Hepatitis B and/or show positive antibodies, or sign a waiver.
5. Proof of purchase of professional liability insurance through the college as outlined by the Nursing Department at Calhoun Community College.

After entry into the program the student will be required to:

1. purchase Nurse Packs (equipment/supplies) through the Calhoun College Bookstore.
2. pay for National League for Nursing Achievement Test or other commercial test as administered periodically throughout this program.
3. abide by the policies of the COLLEGE CATALOG and the POLICY MANUAL for Associate Degree Nursing students.

Standards of Conduct

The nursing student shall comply with legal, moral, and legislative standards which determine acceptable behavior of the nurse and shall avoid those behaviors which may be cause for denial of license to practice as a registered nurse, in accordance with the Alabama Law Regulating Practice of Registered and Practical Nursing and the Alabama Board of Nursing Administrative Code.

When there is probable cause, the Nursing Department faculty reserves the right to require a prospective student, a student currently enrolled in the 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 Nursing Department will provide a specific form for this purpose, when applicable. All reports may be reviewed by the Nursing Department faculty to determine if a student may be admitted, readmitted, or retained in the nursing program.

TRANSFER STUDENTS

Applicants desiring to transfer into Calhoun's Associate Degree Nursing Program who have taken nursing courses will be considered on an individual basis and will be required to meet requirements of the nursing program. The applicant must

1. Make application to the College, be unconditionally accepted.
2. Have at least a "C" average (2.0 grade point average on a 4.0 scale) on all course work transferred in and/or taken at Calhoun.
3. Provide verification from the institution at which nursing courses were taken that the student is eligible to return to that nursing program.
4. Have passing credit (a grade of "C" or above) on all prerequisite and NUR courses required in the Associate Degree Nursing curriculum.

Upon submission of documented proof of the above, an evalua-

tion of nursing courses taken will be made. Additional materials may be required in order for nursing courses to be evaluated. Applicants having had nursing courses other than those in Calhoun's Associate Degree Nursing Curriculum may be required to demonstrate nursing knowledge and skills. Applicants will then be notified as to where in the Associate Degree Nursing curriculum they will be accepted. Applicants will be admitted into the program based on class space availability. Transfer students must meet the same requirements for hepatitis immunizations, student health examination, evidence of current CPR course completion and professional liability insurance as other Calhoun Associate Degree Nursing students. (See information under PROGRAM ENTRY and PROGRAM STANDARDS in this catalog).

READMISSION REQUIREMENTS

A student may be readmitted to the nursing program only ONE TIME following failure of a nursing course with a clinical lab component. After readmission following the failure, the student will be permanently suspended from the nursing program should any nursing course be failed. Students who are currently returning following a failure are considered to be using their second opportunity to complete the nursing program. (The effective date of this policy is September 1980).

A 2.00 Grade Point Average (GPA) ON ALL COLLEGE COURSES is required for readmission to a nursing course. Eligible students wishing to be readmitted to the nursing program must contact the secretary of the Nursing Department (256) 306-2794 to make an appointment with a nursing faculty advisor to discuss readmission plans. The student should obtain a current, unofficial copy of their transcript from the records office to bring with them to the meeting with the nursing faculty advisor. For readmission into the fall semester, the Request for Readmission form must be received in the Health and Physical Education Division office by April 15th prior to the fall semester to be readmitted. For readmission into the spring semester, the Request for Readmission form must be received in the Health and Physical Education Division office by October 15th prior to the spring semester to be readmitted. All readmitted students are accepted in the nursing program based on

1. Fulfillment of admissions criteria.
2. Availability of class space.
3. Placement on a waiting list.

Students who have a second failure are not eligible to enter the Career Mobility Program.

A student who has been terminated from the nursing program due to disciplinary action and who wishes to be readmitted to the program must request in writing a hearing before a nursing faculty review committee. The outcome of this hearing will determine eligibility for readmission.

ACADEMIC PROGRESSION

The following standards must be maintained by each student in order for her/him to progress in the nursing program:

1. Each nursing student must have a grade of "C" or above to pass each nursing (NUR and HPS) course.
2. Each student who has completed the first year of the nursing program must have a 2.00 grade point average over all course work to enter the second year of the program.

3. Each nursing student must demonstrate satisfactory performance in the clinical laboratory portion of each nursing course according to established criteria in order to pass the course successfully.
4. Students receiving an "I" in a NUR and/or HPS course must complete all course requirements before the time to start clinical experience in the next semester. Any exceptions made must have the approval of the Department Chairperson.

A current Student Health Examination form on all students must be maintained on file throughout the program.

Evidence of current cardiopulmonary resuscitation (CPR) course completion must be maintained by all students throughout the program.

Nursing students must have professional liability insurance coverage as outlined by the Nursing Department of Calhoun Community College.

Completion of the ADN Program must be within five (5) years of admission to the first NUR nursing course. If the program is not completed within the five (5) year time frame the student must follow the procedure for admission policy. All previously taken NUR courses must be repeated. Students will be advised accordingly regarding the new semester curriculum. After August 31, 1994, no NUR course will be valid for more than five (5) years toward an AAS degree in nursing. (This policy applies to transfer students, also. The date of the first NUR course will be considered to be the date the course that is equivalent to was taken.) If a student has had a failure of a NUR course, a second failure of any NUR course will result in permanent suspension from the nursing program regardless of when the first failure occurred.

GRADING

The grading scale for NUR courses is as follows:

<u>Passing for nursing students</u>	<u>Failing for nursing students</u>
A = 90-100%	D = 60-74%
B = 80-89%	F = 59% and below
C = 75-79%	

A minimum letter grade of "C" is required in all nursing (NUR) courses for passing and progressing to the next nursing course. In order to receive a letter grade of "C," a grade of 75 or above will be required for any nursing (NUR, HPS) course taken after August 31, 1993.

ACCREDITATION

Accreditation information regarding the nursing program may be obtained from the National League for Nursing Accrediting Commission, 350 Hudson Street, New York, New York, 10014. 1-800-664-1656.

NURSING PROGRAM ESTIMATED COST

Textbooks (Nursing)	\$350.00
Uniforms & Supplies	175.00
Malpractice Insurance (per year)	25.00
Nurse Pacs	75.00
Commercial Achievement Tests.....	45.00
National Council Licensure Examination	125.00
Licensing Fee.....	85.00
Alabama Temporary Licensing Fee (Optional)	50.00
Graduation Fees.....	35.00
Tuition (See General Information Section in this Catalog)	

Programs of Study

GRADUATION

To graduate, a student must successfully complete the prescribed program of study with a 2.0 overall Grade Point Average (GPA) and an exit exam is required for graduation. NOTE: See Catalog for specific information.

POLICIES/CURRICULUM

Policies/Curriculum for the Associate Degree Nursing program is subject to change at any time. Written notice will be given to all students enrolled in nursing courses prior to implementation of change.

NURSING/ADN: CAREER MOBILITY

Associate of Applied Science Degree

This nursing curriculum is designed for those persons who are graduates of a practical nursing program and who wish to pursue further nursing study. The program is accredited by the National League for Nursing and has the full approval of the Alabama Board of Nursing.

Upon satisfactory completion of the requirements of the Nursing program, the graduate will be eligible to apply to write the National Council Licensure Examination and apply to a state Board of Nursing for licensure as a registered nurse. Legal requirements for licensure may be found in the Alabama Board of Nursing Administrative Code. Applicants who have been found guilty of any offenses listed in the Code may be denied licensure by the Alabama Board of Nursing. Any applicant who has had a criminal conviction, alcohol and/or drug abuse/treatment or mental illness must provide the Alabama Board of Nursing with a full explanation and the appropriate court/treatment records at the time of application for examination and licensure. 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.

General education and nursing courses must be taken in the sequence listed unless general education courses are taken prior to the semester in which they are required. All students must take the nursing courses as listed in this Catalog regardless of when they begin course work at this college.

Nursing courses are offered only on the Decatur campus.

Policies for the Nursing Department are subject to change at any time. Written notice will be given to all students enrolled in NUR courses prior to implementation of policy changes.

Program objectives for the Career Mobility Program are the same as those listed under the Basic Program.

PREREQUISITE COURSES

*ENG 101, English Composition	3
SPH 107, Fundamentals of Public Speaking.....	3
PSY 200, General Psychology	3
*MTH Elective (may choose from the following)	3
MTH 100, Intermediate College Algebra	
MTH 112, Precalculus Algebra	
MTH 116, Mathematical Applications	
**BIO 201, Human Anatomy and Physiology I.....	4
Total	16

* Prerequisite: Satisfactory score on the math/English placement test or ACT/SAT tests or appropriate developmental coursework.

**Prerequisite: BIO 103 or successful completion of placement exam.

SEMESTER I (Summer)

*NUR 211 – Concepts of Mobility Students	5
BIO 202, Human Anatomy and Physiology.....	4
PSY 210, Human Growth and Development.....	3
Total	12

* Prerequisite: Satisfactory score on Challenge Exam.

SEMESTER II (Fall)

BIO 220, General Microbiology	4
NUR 265, Advanced Nursing I.....	6
NUR 266, Advanced Nursing II.....	6
Total	16

SEMESTER III (Spring)

NUR 242, Advanced Pharmacology.....	2
NUR 267, Advanced Nursing III	6
NUR 291, Transition into Nursing Practice.....	3
NUR 201, Specialized Area of Study.....	1
Humanities Elective	3
Total	15

TOTAL	59
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Challenge Exam Credits.....	13
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TOTAL CREDITS.....	72
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ADMISSION POLICY

In order to be admitted to the Career Mobility program, students must meet the following criteria:

1. Be a graduate of a practical nursing program and currently licensed by the State of Alabama.
2. Make a passing score on each of the challenge exams administered by the nursing faculty. Challenge exam scores are valid toward admission to the Career Mobility Associate Degree Nursing Program for three (3) years after the date of successful completion of all exams. The objective exams are designed to test the student's knowledge of nursing fundamentals and maternal-infant nursing. Thirteen (13) credit hours may be earned by the examination procedure. The credit will be awarded upon satisfactory completion of NUR 211, NUR 265, NUR 266, NUR 267, NUR 291, NUR 201, and NUR 242.
3. Be unconditionally accepted by the college.
4. Have earned credit for ENG 101, SPH 107, PSY 200, BIO 201*, MTH 100 or MTH 112 or MTH 116
5. Maintain at least a "C" average (2.0 grade point average on a 4.0 scale) on all courses transferred in and/or taken at Calhoun

*BIO 103 (Principles of Biology) may be required based on placement score.

Upon completion of the Career Mobility program admission criteria, applicants must submit documented proof of criteria completion to the Nursing Department. After evaluation of criteria, applicants will be notified that their names have been placed on the waiting list for the Career Mobility program or of any deficiencies in meeting criteria. **Applicants must follow the curriculum listed in the current catalog regardless of when coursework at Calhoun was begun.**

Students are accepted into the Career Mobility Program on a first come, first served basis according to the date that their names are placed on the waiting list and based on class space availability.

A grade of "C" or above will be required for passing each course required for the Career Mobility Nursing Program that is taken after August 31, 1993. This requirement includes required electives and prerequisites.

It is recommended that all nursing students be immunized against Hepatitis B prior to entering the first nursing course. At the time of registration for the first nursing course, students will be required to present proof that they have received the three (3) Hepatitis B vaccinations or proof of immunity to the hepatitis virus. (The three immunizations take at least six months to complete). Students who choose not to have these immunizations must sign a form indicating their refusal of the vaccinations prior to being allowed to register for nursing.

Prior to the first day of nursing classes, students must submit to the Nursing Department a current Student Health Examination form that has been completed by a licensed physician or a nurse practitioner. The appropriate form is furnished by the Nursing Department.

When there is probable cause, the Nursing Department Faculty reserves the right to require a prospective student, a student currently enrolled in the 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 nursing office will provide a specific form for this purpose when applicable. All reports may be reviewed by the Nursing Department faculty to determine if a student may be admitted, readmitted, or retained in the nursing program.

Completion of the Career Mobility ADN Program must be within three (3) years of admission to the first NUR course (NUR 211). If the program is not completed within the three (3) year time frame, the student will be required to retake and successfully pass the Challenge Exam in order to be eligible for program entry. Approval for program entry will be based on the student's meeting the program entry criteria that is current at the time of application for program entry and class space availability. All previously taken NUR courses must be repeated. If a student has had a failure of a NUR course, a second failure of any NUR course will result in permanent suspension from the nursing program regardless of when the first failure occurred.

NURSING ASSISTANT/HOME HEALTH AIDE

Certificate

Nursing assistants/home health aides assist with the nursing care of patients/residents/clients in acute and long term health care facilities and home care settings. As a skilled member of the professional health team, the nursing assistant/home health aide works under the supervision of licensed nurses/physicians. Students are admitted to the Nursing Assistant/Home Health Aide program who are admitted to the college and meet the following qualifications:

1. Must be a minimum of 16 years of age*.
2. Must possess a sincere desire to serve the ill, aged, and infirmed.
3. Must be able to read, write, and speak the English language in an understandable manner.
4. Must meet or exceed ASSET scores for placement into ENG and MTH courses. Applicants failing to meet requirements will be placed into appropriate developmental courses.

Students are accepted in the program on a space available basis.

Students must submit a specific, current, and satisfactory physical examination form completed by a licensed physician prior to or by the first day of class (forms available in the Allied Health Department.) All students accepted must purchase liability insurance through the college. The State Board of Education for the Alabama College System specifies "C" as the minimal acceptable score. Graduates receive a certificate upon successful completion of the program. The Nursing Assistant/Home Health Aide program has the approval of the Department of Postsecondary Education.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 100 Technical Communication	3
MTH 101 Technical Mathematics I	3
Total	6

MAJOR COURSE REQUIREMENTS:

NAS 100 Long Term Care Nursing Assistant OR	
NAS 111 Fundamentals of Long Term Care OR	
NAS 112 Fundamentals of Long Term Clinicals	3-5
NAS 113 Fundamentals of Home Health Care	5
NAS 114 Home Health Aide Clinical.....	3
TOTAL CREDITS	17-19

*Applicants who do not have a high school diploma or a GED certificate must meet ability to benefit requirements in order to be eligible for financial aid.

PARALEGAL TECHNOLOGY

Associate of Applied Science Degree

This program prepares students for employment in law-related fields. Employment areas include law firms; health, governmental, law enforcement, legislative, and social agencies; financial institutions; and abstract, real estate, and title firms.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
ENG 102 English Composition II	3
Math elective (MTH 116 or MTH 246, or for students planning to transfer to a senior college, MTH 110 or MTH 112)	3
SPH 107 Fundamentals of Public Speaking.....	3
CIS 146 Microcomputer Applications.....	3
Natural Science elective.....	4
History, Social or Behavioral Science Elective	3
PSY 200 General Psychology	3
Total	25

MAJOR COURSE REQUIREMENTS:

BUS 215 Business Communication.....	3
PRL 101 Introduction to Paralegal Study	3
PRL 102 Basic Legal Research and Writing	3
PRL 103 Advanced Legal Research and Writing	3
PRL 130 Civil Injuries and Litigation	3
PRL 150 Commercial Law	3
PRL 160 Criminal Law and Procedure.....	3
PRL 230 Domestic Law	3
PRL 240 Wills, Estates, and Trusts	3
PRL 282 Law Office Management and Procedures	3
RLS 125 Real Estate Law	3

Programs of Study

PRL Electives (Choose any two (2) courses):

PRL 170 Administrative Law	3
PRL 192 Special Topics in Paralegal	3
PRL 220 Corporate Law	3
PRL 250 Bankruptcy and Collections	3
PRL 270 Workers Compensation Law	2
PRL 291 Internship in Paralegalism	3

TOTAL CREDITS63-64

PHOTOGRAPHY AND FILM COMMUNICATIONS

Associate of Applied Science Degree

This program is for those desiring skills in still photography, film-making, and photo-electronic media techniques. A formal review of a professional quality portfolio of the student's work is required upon completion of the program of study. Some courses are offered once a year in the day program on the Decatur campus. Students should plan schedules with the advice of the Art faculty.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I	3
MTH Elective (to be selected from MTH 110-115 OR MTH 120-126)	3
SPH 107 Fundamentals of Public Speaking	3
ART 221 Computer Graphics I	3
Humanities elective	3
Natural Science/Math elective/CIS Elective	3
Social Science elective	3
Total	21

Some of the courses below are only offered once each year. See the course description section.

MAJOR COURSE REQUIREMENTS:

ART 113 Drawing I	3
ART 121 Two Dimensional Composition I	3
ART 173 Photography I	3
PFC 174 Photography II	3
PFC 177 Color Photography	3
PFC 178 Audio-Visual Techniques	2
PFC 187, 188 Photography, Film, and Media I, II or	4
ART 176 Filmmaking and	3
PFC 276 Filmmaking II	3
ART 203 Art History I	3
ART 204 Art History II	3
PFC 258 Photographic and Media Problems	2
PFC 273, 274 Studio Photography I, II	6
ART 291 Supervised Study in Art	4-7
ART 299 Portfolio	1
VCM 145 Introduction to Digital Photography	2
VCM 146 Digital Photography or	2
PFC Filmmaking III	3
VCM 232 Advanced Computer Graphics	3

TOTAL CREDITS68

POLYSOMNOGRAPHIC TECHNOLOGY (SLEEP DISORDERS)

Associate of Applied Science Degree

Polysomnographic Technologists perform the testing that is vital to the accurate diagnosis and successful treatment of individuals with sleep disorders throughout the life span.

This program of study is designed to prepare individuals for employment in the Allied Health profession of Polysomnographic Technology, which by definition, is the recording of multiple physiologic parameters during sleep. Proficiency at this type of diagnostic procedure requires technical expertise, excellent interpersonal skills, the ability to make judgments based on the in-depth understanding of the many sleep-wake disorders requiring this type of testing and the ability to handle emergency situations. Performing polysomnography at night is a major part of the field of polysomnographic technology; however, this is an evolving allied health profession and expanded roles continue to develop with the rapid growth of sleep/wake disorders medicine. Polysomnographic technologists find employment in hospitals, sleep disorders centers, clinics, and in fields of instrument sales and home health care.

The Polysomnographic Technology program is designed to be completed in two years. This program is a cooperative effort between Calhoun Community College and Huntsville Hospital's Sleep Center.

PROGRAM INFORMATION

The Polysomnographic Technology Program consists of a general education core component and a technical component (major course requirements). The general education core requirements provide the necessary foundation for the technical components.

ENTRY REQUIREMENTS

General Education Core Requirements

Applicants must meet unconditionally, the admission requirements of the College. Academic course work may be accepted from other accredited institutions with the provision that at least 16 semester hours of general education core credits must be earned at Calhoun.

Technical Component (Huntsville Hospital)

Admission to the technical phase of the program is limited to those students at Calhoun who are selected by the Polysomnographic Technology Program Selection Committee.

Students are selected for the Polysomnographic Technology Program based on the following:

- Completion of general education core requirements
- Completed application and interest questionnaire (available from the Health & Physical Education Division Office at Calhoun, or Ms. Katrina King, The Sleep Center at Huntsville Hospital, 517-7038).
- College Transcript provided with application form
- Four (4) letters of recommendation
- Letter of Health from licensed physician
- Drug Screening (given only to students accepted in the program)

Students selected for the program must be certified in Basic Life Support.

DEGREE REQUIREMENTS

Upon satisfactory completion of the requirements of the technical component of the Polysomnographic Technology Program, the graduate will be awarded a Certificate of Completion. This will assist in becoming eligible for the National Registry Exam to become credentialed as a Registered Polysomnographic Technologist (R.PSG.T)

To be awarded the Associate of Applied Science degree the graduate must:

- Successfully complete general education core requirements with a minimum grade point average of 2.5
- Successfully complete a minimum of 16 semester hours at Calhoun.
- Satisfactorily complete the major course requirements (technical component) through the Sleep Disorders Center at Huntsville Hospital.

Technical specialty requirement credits will be granted upon successful completion of the prescribed technical program of study in Polysomnography Technology. Admission criteria, course requirements, and policies are subject to change. Prior notice will be provided to students enrolled in the program. For program information, students should contact Ms. Jane Floyd in the Shelton Health Building, Room 205C, or call 306-2808 or 306-2786 or Katrina King at Huntsville Hospital – 517-7038 or 1-800-492-5286.

Admission criteria, course criteria, and policies are subject to change. Changes will be provided to students enrolled in the program prior to implementation.

GENERAL EDUCATION CORE REQUIREMENTS:

ENG 101 English Composition I.....	3
SPH 107 Fundamentals of Public Speaking	3
Humanities or Fine Arts elective	3
*MTH 100 Intermediate College Algebra OR	
MTH 112 Precalculus Algebra OR	
MTH 116 Mathematical Applications	3
**BIO 201 Human Anatomy and Physiology I.....	4
BIO 202 Human Anatomy and Physiology II	4
PHS 112 Physical Science II	4
PSY 200 General Psychology.....	3
Total	27

MAJOR COURSE REQUIREMENTS:

***PSG 120 Principles and Practices of Health Care	3
***PSG 130 Emergency Care for Sleep Center Patients	2
PSG 140 PSG Data Tabulation & Interpretation	5
PSG 201 Polysomnographic Instrumentation.....	4
PSG 211 Polysomnographic Procedures I.....	2
PSG 219 PSG Anatomy & Physiology	3
PSG 220 Sleep/Wake Pathophysiology	3
PSG 221 Polysomnographic Procedures II.....	4
PSG 222 Pharmacology for Sleep Disorders.....	2
PSG 230 Data Tabulation & Interpretation of Neurodiagnostics	3
PSG 240 Sleep Disorders Seminar	2
PSG 241 Management of Sleep Disorders Center	2
PSG 251 Polysomnographic Procedures III.....	5
Total	40

* Pre-requisite: Satisfactory score on the ASSET math placement or ACT/SAT tests or appropriate developmental coursework.

**BIO 103 Principles of Biology (May be required based on placement scores)

***Option II – May be taken prior to acceptance in the program. Must be accepted into program before taking additional “PSG” courses.

TOTAL CREDITS.....67

PRACTICAL NURSING

Certificate

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, physician/dentist offices and other settings. Practical nurses have a vital role in affecting the quality and effectiveness of health care.

The Practical Nursing program at Calhoun is a Certificate program of study. It was established in 1953 to provide a program for the educational preparation of the Licensed Practical Nurse. The program has the full approval of the Alabama Board of Nursing. It is accredited by the National League for Nursing. Accreditation information regarding the nursing program may be obtained from the National League for Nursing Accrediting Commission, 350 Hudson Street, New York, New York, 10014, 1-800-664-1656.

Graduates of this curriculum will be eligible to apply to take the licensing examination, NCLEX-PN, through which they achieve the designation of licensed practical nurse.

Beginning Fall 1999, completion of the practical nursing curriculum requires three (3) semesters of study for a total of 42 credit hours. Courses must be taken in sequential order as designated. Classes are admitted twice a year. Prerequisite courses must be completed. Enrollment is limited. A waiting list is maintained.

The practical nursing curriculum revolves around technical excellence utilizing 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 in practical nursing practice. Ethical and legal accountability are stressed.

The practical nursing program at Calhoun is for those 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.

PHILOSOPHY

The faculty of the Practical Nursing program believe that the purpose of the educational program is to prepare the individual student to function in the workplace at the entry level for practical nursing. The program gives consideration to the development of the student's aptitude and interests as persons, learners, practitioners, and citizens. The program is designed to provide each individual with equal opportunity through a quality program of study to achieve his/her potential in the field of practical nursing. Therefore, the faculty of Calhoun's Practical Nursing program sets forth the following basic beliefs.

INDIVIDUAL

Individuals are complex biological, psychological, social, and cultural beings who grow and develop throughout their lifespan. They possess inherent dignity and worth and have the right to make decisions about their health. They possess a freedom of choice in obtaining health care. Each individual is entitled to be treated with dignity, respect, and without discrimination.

Programs of Study

SOCIETY

A society is comprised of individuals who share a system of values and beliefs; thus setting norms for individual behavior with a common goal in mind which will be for the benefit of all persons in the environment. An individual's needs can be met within the sociocultural framework. A society's survival depends upon being dynamic.

NURSING

Nursing is a dynamic profession dedicated to the promotion of health. It is the art and science of a practiced discipline providing care for the physical, psychosocial, and spiritual aspects of the individual throughout the lifespan. Nursing strives to meet the individual's needs and functions as client advocate while encouraging the individual to accept responsibility for his/her own health. The profession utilizes the nursing process to diagnose and plan treatment of human responses to actual or potential health alterations. It provides a means of documenting data collection. The practice of nursing requires legal accountability, caring, competence, critical thinking, insight, ethical reasoning, scholarship, and political activism.

PRACTICAL NURSING

Practical Nursing is a discipline in which the licensed practical nurse provides direct care to clients in various settings under the direction of a licensed professional nurse, physician, or dentist. The practice of practical nursing contributes to planning and meeting client needs throughout the lifespan. Practical nursing utilizes the nursing process to meet the needs of diverse clients with common, well defined health problems. Practical nurses perform a variety of nursing functions requiring skills, critical thinking, technical skills with decision making, and sound judgment. Practical nurses practice within the scope of practice as outlined by the Nurses' Practice Act of the state in which they are licensed.

Practical nursing requires knowledge of the nursing process, a safe and effective care environment, physiological integrity, psychosocial integrity, and health promotion. As members of the discipline, practical nurses must collaborate with other members of the health care team in meeting the needs of the client with common, well defined health problems. These needs include the client's basic physical, emotional, spiritual, and socio-cultural needs.

NURSING EDUCATION

Nursing education is a systematic program of study that takes place in an institution with a soundly structured program supported by a conceptual framework that includes Maslow, body systems, Erikson, and the nursing process as major concepts. It fosters the pursuit of truth by encouraging critical thinking and sound judgment. It provides qualified individuals with the necessary theory and selected clinical experiences which enable them to become competent practitioners. The faculty believe that the program of nursing education will allow for and promote continued professional growth and involvement in social activities that affect nursing and health.

EDUCATION AS A LIFELONG PROCESS

Education as a lifelong process is an organizational program of personal self-advancement. Continuing education provides an opportunity for the nurse to be updated in the knowledge and skills necessary

for the enhancement of the individual's professional growth. The changing health care needs of society require nurses to commit themselves to life-long learning.

TEACHING/LEARNING PROCESS

Education provides an opportunity for intellectual growth. The educational process is a shared responsibility; learning occurs in an environment of mutual respect between teacher and learner. The teacher's role is to facilitate and motivate learning using various teaching methods for differing learning styles with movement from simple to complex. The teacher is also responsible for creating a caring and nurturing environment. The learner's role is to bring an awareness of learning needs and a commitment to the learning experience.

PROGRAM OBJECTIVES

The nursing faculty accepts and utilizes the National League for Nursing Entry Level Competencies of graduates in compiling the program objectives for Calhoun's graduates. The graduates of the Calhoun Practical Nursing Program should demonstrate the following entry-level competencies:

ASSESSMENT

Assesses basic physical, emotional, spiritual, and socio-cultural needs of the health care client.

Collects data within established protocols and guidelines from various sources:

- a. client interviews
- b. observations/measurements
- c. health care team members, family, and significant others
- d. health records

Utilizes knowledge of normal values to identify deviations in health status.

Documents data collection.

Communicates findings to appropriate health care personnel.

PLANNING

Contributes to the development of nursing care plans utilizing established nursing diagnoses for clients with common, well-defined health problems.

Prioritizes nursing care needs of clients.

Assists in the review and revision of nursing care plans to meet the changing needs of clients.

IMPLEMENTATION

Provides nursing care according to:

- a. accepted standards of practice.
- b. priority of client needs.
- c. individual and family rights to dignity and privacy.

Utilizes effective communication in:

- a. recording and reporting.

- b. establishing and maintaining therapeutic relationships with client, families, and significant others.

Collaborates with health care team members to coordinate the delivery of nursing care.

Instructs clients regarding health maintenance based on client needs and nurse's knowledge level.

EVALUATION

Seeks guidance as needed in evaluating nursing care.

Modifies nursing approaches based on evaluation of nursing care.

Collaborates with other health team members in the revision of nursing care plans.

MEMBER OF THE DISCIPLINE

Complies with the scope of practice as outlined in the nurse practice act of the state in which licensed.

Describes the role of the licensed practical/vocational nurse in the health care delivery system.

Utilizes educational opportunities for continued personal and professional growth.

Identifies personal potential and considers career mobility options.

Identifies personal strengths and weaknesses for the purpose of improving performance.

Adheres to a nursing code of ethics.

Functions as an advocate for the health care consumer.

MANAGING/SUPERVISION

Assumes responsibility for managing his/her own actions when providing nursing care for individuals and groups of clients.

Is accountable for nursing care delegated to unlicensed health care providers.

POLITICAL ACTIVISM

Is aware that the practical nurse, through political, economic, and societal activities, can affect nursing and health.

PRACTICAL NURSING

Certificate

Revised Semester Curriculum

SEMESTER I

MTH 105 Math for Nurses.....	3
LPN 120 Pharmacology.....	2
LPN 105 Fundamentals of Nursing.....	5
LPN 118 Mental Health.....	2
LPN 113 Body, Structure, & Function	3
LPN 115 Nutrition and Diet Therapy.....	2
Total	17

*LPN 113 is not required if a student has a "C" or better in BIO 201 & 202.

SEMESTER II

ENG 100 Vocational Technical English	3
LPN 136 Pharmacology.....	2
LPN 121 Adult Health Concepts	3
LPN 161 Applied Clinical Concepts.....	4
LPN 134 Maternal Health Nursing	2
LPN 172 Maternal Health Clinical	2
Total	16

*ENG 100 is not required for a student who has college credit for ENG 101.

SEMESTER III

LPN 145 Role Transition	1
LPN 135 Child Health Nursing.....	2
LPN 141 Adult Health Concepts III	3
LPN 162 Adult/Child Nursing Clinical	3
Total	9

TOTAL CREDITS.....42

Note: Class admitted summer, 1999 will be converted to this curriculum beginning with Semester I in the fall.

ADMISSION POLICY

Applicants are accepted into the Practical Nursing Program based on the following policy:

1. Applicants must meet the admission requirements of the College for regular status.
2. Applicants must take placement test in English and Math and have appropriate placement scores for English 100 and Math 105.
3. Applicants should take placement scores to Pat Landers in the Admission Office to have name placed on the waiting list.
4. Applicants will be accepted based on placement on the waiting list and spaces available.
5. Applicants must have a minimum cumulative GPA of 2.0.

Students accepted for enrollment in the Practical Nursing Program must:

1. Submit to the Allied Health Department a specific, current, 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 two years. Evidence of good health is required for certain 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 the disease
 - b. Titer that shows immunity
 - c. Immunization record

Programs of Study

5. Provide evidence of current certification in BCLS/Health Provider cardiopulmonary resuscitation (CPR) prior to clinical experience. Students are responsible for obtaining and maintaining current CPR Certification while enrolled in the program.
6. Purchase professional liability insurance through the College by the **first day of class** (forms available in the Allied Health Department.)
7. Purchase course syllabi and Nurse Packs (equipment/supplies) through the Calhoun College Bookstore.
8. Pay for National League for Nursing Achievement Test (NLN) or other commercial test as administered periodically throughout the program.

Students in the Practical Nursing Program are expected to abide by the policies of the COLLEGE CATALOG and the PRACTICAL NURSING POLICY MANUAL.

When there is probable cause, the Practical Nursing faculty reserves the right to require a prospective student, a student currently enrolled in the 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 Allied Health Department will provide a specific form for this purpose, when applicable. All reports may be reviewed by the Practical Nursing faculty in the Allied Health Department to determine if a student may be admitted, readmitted, or retained in the nursing program.

Standard of Conduct

The nursing student shall comply with legal, moral, and legislative standards which determine acceptable behavior of the nurse and shall avoid those behaviors which may be cause for denial of license to practice as a registered nurse, in accordance with the Alabama Law Regulating Practice of Registered and Practical Nursing and the Alabama Board of Nursing Administrative Code.

Academic Progression in the Program:

In order to progress in the practical nursing program, the student must:

1. Fulfill course requirements as stated in each practical nursing course syllabus.
2. Achieve a minimum grade of "C" (75%) in each practical nursing course and Health Science course attempted.
3. Earn a grade of "C" or better in MTH 105 and ENG 100 (or ENG 101) according to the course syllabus.
4. Maintain a passing grade for each practical nursing (LPN prefix) course and Health Science (HPS Prefix) course.
5. See readmission policy for failure to progress for academic reasons.

Readmission:

To be readmitted to the Practical Nursing program, the student must meet the criteria for readmission to the Practical Nursing program and college as stated in the catalog and must contact the Allied Health Department to schedule an appointment with practical nursing faculty to discuss options for successful academic achievement.

The readmission of a student is based on availability of space and student-teacher ratio provided the student is eligible to return. The student will be readmitted one time only when he/she fails to progress for academic reasons. The student must have only one course to repeat. The stu-

dent must complete the program within three (3) years of initial admission date.

Any student requesting readmission must have a minimum Grade Point Average of 2.00 on all course work attempted.

A Student Health Examination Form will be required if the time and need indicated is evident as well as liability insurance renewal, tuberculin skin testing (PPD) and CPR course completion.

TRANSFER

Students requesting to transfer into the practical nursing program at Calhoun will be considered on an individual basis and will be required to meet requirements of the program. The student must be eligible to return to the Practical Nursing Program from which he/she was a student. Students must follow the procedure for transfer outlined in the College catalog. Transcripts from transferring institutions are evaluated through admissions and records.

AUDIT

Students auditing a Practical Nursing course will not be allowed to attend any clinical labs nor to take or review any course exams. They will not be required to have the required Student Health Examination nor the PPD skin testing and hepatitis vaccinations. They will not be required to complete a cardiopulmonary resuscitation (BCLS) course or pay liability insurance.

GRADING STANDARD

The grading scale for practical nursing courses (LPN & HPS prefixes) is as follows (Note: 75% or above is passing.):

Passing for PN students

A = 90 - 100%
B = 80 - 89%
C = 75 - 79%

Failing for PN students

D = 60 - 74%
F = 59% and below

NONDISCRIMINATORY STATEMENT

The Practical Nursing Program abides by the nondiscrimination policy as published in this catalog. It is the policy of the Practical Nursing Program, in accordance with the National League for Nursing Accrediting Commission (NLNAC), to not discriminate against any individual based on age, religion/creed, ethnic origin, marital status, race, gender/sex, disability, or veteran status.

PRACTICAL NURSING PROGRAM ESTIMATED COSTS

Tuition: See College Catalog under Financial Information

Malpractice Insurance (per year)	\$ 21.75
NLN Test	25.00
Graduation Fees	35.00
NCLEX Fee	125.00
Licensure Fee	75.00
Temporary Permit (optional)	50.00
	<u>\$294.75</u>

Textbooks (approximate)	\$540.00
Nurse Packs	\$ 78.00
Uniforms (approximate)	\$124.00
Health Exams, PPD, Immunizations	Cost Varies
CPR Course	\$30.00

The National League for Nursing Accreditation Commission (NLNAC) is a resource for information regarding tuition, fees and length of the

program. Information regarding the nursing program may be obtained from the NLNAC at 350 Hudson Street, New York, New York, 10014, 1-800-664-1656.

LICENSURE

Upon satisfactory completion of the requirements of the Nursing program, the graduate will be eligible to apply to take the National Council Licensure Examination and apply to a state Board of Nursing for licensure as a practical nurse. Legal requirements for licensure may be found in the Alabama Board of Nursing Administrative Code 1982 (Reprinted 1992). Applicants who have been found guilty of any offenses listed in the Code may be denied licensure by the Alabama Board of Nursing. Any applicant who has had a criminal conviction, alcohol and/or drug abuse/treatment or mental illness must provide the Alabama Board of Nursing with a full explanation and the appropriate court/treatment records at the time of application for examination and licensure. The Alabama Board of Nursing will determine whether or not the applicant may write the examination for licensure and be licensed as a practical nurse. These same legal requirements or others may apply to taking the NCLEX-PN in other states.

Grounds for denial of an RN or LPN license by examination include but are not limited to:

1. conviction of a felony.
2. conviction of a misdemeanor or felony involving moral turpitude or gross immorality.
3. conviction of a state or federal law related to controlled substances (may be either a misdemeanor or a felony).
4. failure to show good moral character as pertaining to nursing.
5. abuse of, or addiction to, alcohol or other drugs.
6. being mentally incompetent.
7. unprofessional conduct.
8. false representation of facts on application for licensure.

(Code of Alabama, 1975, Section 34-21-25; Alabama Board of Nursing Administrative Code 610-X-8-.01 and 610 -X-8-.05)

Be advised that a criminal and/or drug history could result in denial of permission to take the licensure examination.

GRADUATION

To graduate, a student must successfully complete the prescribed program of study with a 2.0 overall Grade Point Average (GPA) and a 2.5 GPA in courses with an LPN & HPS prefixes. An exit exam is required for graduation. NOTE: See Catalog for specific information.

CAREER MOBILITY

Graduates of the Practical Nursing program who pass the NCLEX-PN examination and want to continue the ladder of nursing education are referred to in the section on Career Mobility, Associate Degree Nursing program.

POLICIES/CURRICULUM

Policies/Curriculum for Practical Nursing is subject to change at any time. Written notice will be given to all students enrolled in LPN courses prior to implementation of change.

WALLACE STATE ARTICULATION PROGRAMS

Calhoun Community College and Wallace State College (WSC) at Hanceville have an articulation agreement for the following Allied Health programs: Physical Therapist Assistant and Respiratory Care Technology.

Each program of study is identified by specific pre-requisite courses and minimum semester hours. They are listed in this catalog. Students complete their general academic course work at Calhoun, then apply to Wallace State to transfer to the technical/clinical phase of the program at Wallace State. Each program has published criteria for admission. The student should contact Wallace State and request an application packet for the program to which he/she wishes to apply (WSC, P.O. Box 2000, Hanceville, AL 35077-2000). Applications to WSC should be submitted by June 1 for the following Fall consideration. All programs require ACT scores. Curricula are subject to revision by Wallace State.

PHYSICAL THERAPIST ASSISTANT

The Physical Therapist Assistant (PTA) is a skilled technical health worker who, under the supervision of a Registered Physical Therapist, assists in the patient's treatment program. A planned patient-care program is carried out by the assistant, following established procedures. Duties of the Physical Therapist Assistant are varied but include rehabilitation of orthopedic, neurological, pediatric, and sports-related problems.

Therapist Assistants are employed in general hospitals, rehabilitation centers, nursing homes, home health-care agencies, private practices and other specialized health-care settings.

The Physical Therapist Assistant Program is a two-year course of study. The student MUST complete the first year of general education course prerequisites before being eligible to apply to the Physical Therapist Assistant Program. Three semesters are necessary to complete the final year of the program, which begins the Fall Semester.

GENERAL EDUCATION CORE REQUIREMENTS:

(Pre-requisites)

ENG 101 English Composition I.....	3
ENG 102 English Composition II.....	3
SPH 107 Fundamentals of Public Speaking.....	3
MTH 131 Mathematics in General Education.....	3
*BIO 201-202 Anatomy and Physiology I and II	8
PSY 200 General Psychology.....	3
PSY 210 Human Growth and Development.....	3
HPS 105 Medical Terminology	3
HIT 115 Pathophysiology and Pharmacology.....	3

Total.....32

* Prerequisite: BIO 103 or successful completion of placement exam.

MAJOR COURSE REQUIREMENTS:

To be completed at Wallace State

RESPIRATORY CARE TECHNOLOGY

This program is designed to provide training necessary for successful completion of the requirements for the advanced practitioner level as defined by the National Board for Respiratory Care (NBRC). A respiratory-care practitioner is responsible for the administration, under

Programs of Study

physician's prescription, of many types of breathing therapeutics, utilizing specialized breathing equipment, aerosol, and humidity administration. The respiratory-care practitioner works closely with the physician and also directly with the patient in the treatment situation, which is an attractive feature of this career.

GENERAL EDUCATION CORE REQUIREMENTS:

(Pre-requisites)

ENG 101 English Composition I	3
ENG 102 English Composition II	3
SPH 107 Fundamentals of Public Speaking.....	3
*BIO 201-202 Anatomy and Physiology I and II.....	8
MTH 116 Mathematical Applications.....	3
PSY 200 General Psychology.....	3
Total	23

*Prerequisite: BIO 103 or successful completion of placement exam.

MAJOR COURSE REQUIREMENTS:

To be completed at Wallace State

SECURITY

Certificate

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.

ENG 100 Vocational Technical English I or	
ENG 101 English Composition I	3
CIS 146 Microcomputer Applications.....	3
CRJ 160 Introduction to Security	3
CRJ 161 Introduction to Physical Security	3
CRJ 162 Security Risk Management	3
CRJ 163 Security Management.....	3
CRJ 164 International Security.....	3
CRJ 166 Private and Retail Security	3
CRJ 290 Special Topics.....	2
TOTAL CREDITS.....	26

COURSE DESCRIPTIONS

COURSE DESCRIPTIONS

INDEX OF COURSE PREFIXES

Prefix	Course	Page No.	Prefix	Course	Page No.
ACR	Air Conditioning & Refrigeration.....	89	MUL	Music.....	138
ALI	Alabama Language Institute.....	128	MUP	Music-Private.....	138
ANT	Anthropology.....	91	MUS	Music-General.....	140
ART	Art.....	91	NAS	Nursing Assistant/Home Health Aide.....	142
AST	Astronomy.....	94	NUR	Nursing.....	143
BAR	Barbering.....	94	OAD	Office Administration.....	149
BIO	Biology.....	95	ORI	Orientation.....	150
BSR	Basic Skills Reading.....	96	ORT	Orientation/Technical.....	150
BSS	Basic Study Skills.....	96	PED	Physical Education.....	150
BUS	Business.....	97	PFC	Photography & Film.....	155
CCT	Consumer Electronics.....	101	PHL	Philosophy.....	156
CHD	Child Development.....	102	PHS	Physical Science.....	156
CHM	Chemistry.....	101	PHY	Physics.....	156
CIS	Computer & Office Information Systems.....	104	PMC	Productivity Management & Control.....	157
CIT	Cosmetology Instructor Training.....	106	POL	Political Science.....	159
CNC	Computer Numerical Control.....	107	PRL	Paralegal.....	160
COS	Cosmetology.....	108	PSG	Polysomnographic Technology.....	162
CRJ	Criminal Justice.....	110	PSY	Psychology.....	164
DDT	Design Drafting Technology.....	114	QCT	Quality Control Technology.....	165
DNT	Dental Assisting.....	112	RDG	Reading.....	166
ECO	Economics.....	117	REL	Religion.....	166
EDU	Education.....	117	RLS	Real Estate.....	167
EET	Electronic Engineering Technology.....	117	SOC	Sociology.....	168
ELT	Electrical Technology.....	120	SPA	Spanish.....	168
EMS	Emergency Medical Services.....	123	SPH	Speech Communications.....	168
ENG	English.....	127	SWT	Social Work Technology.....	169
FRN	French.....	129	THR	Theatre.....	169
FSC	Fire Services Management.....	129	TRT	Traffic & Transportation Technology.....	170
GEO	Geography.....	129	VCM	Visual Communications.....	171
GRN	German.....	130			
HED	Health Education.....	130		Special Populations	
HIS	History.....	130			
HPS	Health Sciences.....	131	ADL	Adult Literacy.....	173
IDS	Interdisciplinary Studies.....	132	ABR	Automotive Body Repair.....	174
INT	Industrial Maintenance Technology.....	132	AUM	Automotive Mechanics.....	176
LBS	Library Science.....	132	CAR	Carpentry.....	177
LPN	Practical Nursing.....	146	DDT	Design Drafting.....	179
MCM	Mass Communications.....	134	HOC	Horticulture.....	184
MTH	Mathematics.....	135	MAS	Masonry.....	186
MTT	Machine Tool Technology.....	132	UPH	Upholstery.....	187
			WDT	Welding.....	190

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 which will be 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 for 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.

**AIR CONDITIONING AND
REFRIGERATION (ACR)**

ACR 111	REFRIGERATION PRINCIPLES (2T, 4M) FORMERLY: ACR 101 This course emphasizes the fundamental principles for air conditioning and refrigeration. Instruction is provided in the theory and principles of refrigeration heat transfer, refrigeration system components, the mechanical cycle of operation, and refrigeration characteristics. Upon completion, students should understand the functions of major systems components, terminology, heat transfer, safety, and the use and care of tools and equipment.	3 credits
ACR 112	HVACR SERVICE PROCEDURES (1T, 5M) FORMERLY: ACR 120 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.	3 credits
ACR 113	REFRIGERATION PIPING PRACTICES (1T, 2E, 3M) This 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 understand related terminology, be able to identify ACR pipe and tubing, and various fittings.	3 credits
ACR 115	HEATING SYSTEMS I (2T, 4E, 6M) FORMERLY: ACR 211 This course covers the fundamentals of heating systems. Emphasis is placed on components, operations general service procedures, and basic installation procedures. Upon completion, students should be able to install and service gas and electric furnaces.	6 credits
ACR 121	PRINCIPLES OF ELECTRICITY FOR HVACR (2T, 4M) 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.	3 credits

ACR 122	HVACR ELECTRICAL CIRCUITS (1T, 5M) FORMERLY: ACR 133 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.	3 credits
ACR 123	HVACR ELECTRICAL COMPONENTS (1T, 5M) FORMERLY: ACR 212 PREREQUISITE: ACR 121 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.	3 credits
ACR 125	ADVANCED HEAT PUMP SYSTEMS (2T, 4E, 6M) PREREQUISITE: ACR 123 This course is an in-depth study of the theory and application of heat pump systems. Topics include reverse cycle refrigeration, four-way valve operation, industry codes, system components and troubleshooting. Upon completion, students should be able to install and service heat pumps.	6 credits
ACR 126	COMMERCIAL HEATING SYSTEMS (1T, 5M) FORMERLY: ACR 213 PREREQUISITE: ACR 115 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.	3 credits
ACR 130	COMPUTER ASSISTED HVAC TROUBLESHOOTING (2E, 3M) FORMERLY: ACR 232 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 diagnose and repair service problems in HVAC equipment.	1 credit
ACR 132	RESIDENTIAL AIR CONDITIONING (1T, 5M) FORMERLY: ACR 131 PREREQUISITE: ACR 111 (Formerly ACR 101) 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.	3 credits

Course Descriptions

ACR 133	DOMESTIC REFRIGERATION (1T, 2E, 3M) 3 credits PREREQUISITE: ACR 111 (Formerly ACR 101) This course covers domestic refrigerators and freezers. Emphasis is placed on operation, maintenance, and repair of domestic refrigerators. Upon completion, students should be able to service and repair home refrigerators and freezers. (Taught on Demand)	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 134	ICE MACHINES (1T, 2E, 3M) 3 credits This course introduces students to commercial ice machines. Emphasis is placed on components, electrical and mechanical operation sequences, control adjustment procedures, preventive maintenance, repairs, and installation procedures. Upon completion, students should be able to install, service and repair commercial ice machines. (Taught on Demand)	ACR 202 SPECIAL REFRIGERATION SYSTEMS (1T, 2E, 3M) 3 credits FORMERLY: ACR 231 PREREQUISITE: ACR 111 (Formerly ACR 101) 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.
ACR 139	AUTOMOTIVE AIR CONDITIONING (1T, 2E, 3M) 3 credits FORMERLY: ACR 223 This course introduces students to the fundamentals of the automotive air conditioning systems. Emphasis is placed on service, diagnostics, repair procedures and the recovery and recycling of refrigerants. Upon completion, students should be able to service and repair automotive air conditioning systems.	ACR 203 COMMERCIAL REFRIGERATION (1T, 2E, 3M) 3 credits PREREQUISITE: ACR 111 (Formerly ACR 101) 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 144	BASIC DRAWING AND BLUEPRINT READING IN HVAC (3T) 3 credits 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. (Taught on Demand)	ACR 204 COMMERCIAL AIR CONDITIONING (1T, 5M) 3 credits FORMERLY: ACR 213 PREREQUISITE: ACR 111 (Formerly ACR 101) This course focuses on commercial air conditioning systems. Topics include maintenance, repair, and troubleshooting. Upon course completion, students should be able to service and repair commercial air conditioning systems.
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. The EPA certification exam is administered at the end of the course. Upon completion, students should be able to pass the EPA refrigerant certification exam. (Taught on Demand)	ACR 205 SYSTEM SIZING AND AIR DISTRIBUTION (1T, 5M) 3 credits FORMERLY: ACR 221 and ACR 222 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 192	HVAC APPRENTICESHIP/INTERNSHIP (15M) 3 credits This course is designed to provide basic hands-on experiences in the work place. The student is provided with a training plan developed by the employer and instructor working together to guide the learning experience. Upon course completion, students should be able to work independently and apply related skills and knowledge. (Taught on Demand)	ACR 206 SYSTEM TROUBLESHOOTING (2T, 4M) 3 credits FORMERLY: ACR 233 This course introduces students to various HVAC troubleshooting techniques. Emphasis is placed on mechanical and electrical problems, heat pump service, air conditioning service, and problem analysis. Upon course completion, students should be able to perform various troubleshooting techniques on heating and air conditioning systems.
ACR 200	REVIEW FOR CONTRACTORS EXAM (1T, 5M) 3 credits This course prepares students to take the State Certification Examination. Emphasis is placed on all	

ANTHROPOLOGY (ANT)

ANT 200	INTRODUCTION TO ANTHROPOLOGY (3T) This course is a survey of physical, social, and cultural development and behavior of human beings.	3 credits
ANT 210	PHYSICAL ANTHROPOLOGY (3T) This course is a study of the human evolution based upon fossil and archaeological records as well as analysis of the variation and distribution of contemporary human populations.	3 credits
ANT 220	CULTURAL ANTHROPOLOGY (3T) This course is the application of the concept of culture to the study of both primitive and modern society.	3 credits
ANT 226	CULTURE AND PERSONALITY (3T) PREREQUISITE: ANT 200 This course explores the relationship between personality development and culture from a cross cultural perspective.	3 credits
ANT 230	INTRODUCTION TO ARCHAEOLOGY (3T) This course is an introduction to archaeological excavation techniques and post-excavation laboratory procedures.	3 credits
ANT 236	FIELD SURVEY IN ARCHAEOLOGY (6E) PREREQUISITE: ANT 230 This course permits students to apply archaeological techniques to field research projects.	3 credits
ANT 237	ARCHAEOLOGICAL LAB PROCEDURES (6E) PREREQUISITE: ANT 230 This course specializes in artifact conservation, cataloging, sorting, storage, and general post-excavation cultural material administration. Learning methodology and understanding the deterioration-susceptible of objects.	3 credits
ANT 246	PRESERVATION LAB PROCEDURES (6E) PREREQUISITE: ANT 230 This course is primarily intended for students interested in pursuing museum science and archaeological laboratory procedures. It reviews technical information on curation, preservation, and conservation of physical and cultural objects.	3 credits
ANT 260	INDIANS OF NORTH AMERICA (3T) This course surveys the history, development, and culture of North American Indian tribes.	3 credits

ART (ART)

ART 100	ART APPRECIATION (3T) 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.	3 credits
ART 101	ART WORKSHOP I (6E) PREREQUISITE: Permission of instructor. This course provides an art experience for both non-art and art majors who are interested in a variety of art projects concerned with community or college related activities. Emphasis is placed on the organization of ideas in advancing their creative process. Upon completion, students should be able to present visual evidence of the activities involved and explain how the experience advanced their artistic skills.	3 credits
ART 102	ART WORKSHOP II (6E) PREREQUISITE: Art Workshop I, Permission of Instructor This course provides an art experience for both non-art and art majors who are interested in a variety of art projects concerned with community or college related activities. Emphasis is placed on the organization of ideas in advancing their creative process. Upon completion, students should be able to present visual evidence of the activities involved and explain how the experience advanced their artistic skills.	3 credits
ART 109	ART MUSEUM SURVEY (3T) This course covers the art experienced 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.	3 credits
ART 113	DRAWING I (6E) 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.	3 credits
ART 114	DRAWING II (6E) PREREQUISITE: ART 113 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.	3 credits

Course Descriptions

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 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 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 176	FILM MAKING (6E) 3 credits This course provides a knowledge of the basics of film-making. Emphasis is placed on procedure, equipment, editing and sound. Upon completion, students should demonstrate a basic knowledge of film making through critical analysis and film projects.
ART 126	COLOR (6E) 3 credits This course introduces the student to fundamentals of color and color uses. Topics include various color theories, technical skills in mixing color, types of pigment and the expressive uses of color. Upon completion, students should be able to explain and demonstrate a fundamental understanding of color as it is used in the development of assigned color problems.	ART 190	ART: LEGAL AND FINANCIAL MANAGEMENT (3T) 3 credits This course is designed to acquaint the student with funding sources, business procedures, and project planning for the visual artist. Topics may include grants, budgeting, legal contracts, and self-promotion. Upon completion, students should demonstrate a knowledge of the basics of managing an art related business.
ART 127	THREE-DIMENSIONAL COMPOSITION (6E) 3 credits PREREQUISITE: 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 art works. Upon completion, students should demonstrate basic technical skills and a personal awareness of the creative potential inherent in three-dimensional art forms.	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 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 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 134	CERAMICS II (6E) 3 credits PREREQUISITE: ART 133 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 216	PRINTMAKING I (6E) 3 credits PREREQUISITE: ART 113, ART 121, or Permission 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 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
PREREQUISITE: ART 113, ART 121 or Permission
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
PREREQUISITE: ART 113, ART 121 or Permission
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 243 SCULPTURE I (6E) 3 credits
PREREQUISITE: ART 125, ART 127, Permission
This course provides a study of three-dimensional form by familiarizing students with sculpting media and techniques. Topics include the fundamentals of art and sculpting media with emphasis on the creative process. Upon completion, students should understand the fundamentals of art and three-dimensional form, as well as the various media and processes associated with sculpture.

ART 244 SCULPTURE II (6E) 3 credits
PREREQUISITE: ART 243
This course is designed to sharpen skills in the media and processes of sculpture. Emphasis is placed on personal expression through three-dimensional form. Upon completion, students should be able to apply the fundamentals of art, their knowledge of form, and the sculptural processes to communicating ideas.

ART 253 GRAPHIC DESIGN I (6E) 3 credits
PREREQUISITE: Permission
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: 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
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.



Course Descriptions

ART 264	MUSEUM PRACTICE II (2-8E) PREREQUISITE: ART 263 or Permission This course provides further study of museum art-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.	1-4 credits
ART 291	SUPERVISED STUDY IN STUDIO ART I (2-8E) PREREQUISITE: Permission 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.	1-4 credits
ART 292	SUPERVISED STUDY IN STUDIO ART II (2-8E) PREREQUISITE: ART 291, Permission 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.	1-4 credits
ART 293	DIRECTED READINGS IN ART I (3T) This course offers supervised readings in the literature of visual arts. Emphasis is placed on in depth analysis of the chosen area of study. Upon completion, students should have an extensive knowledge of an advanced area in art and evidence of their work in the form of research.	3 credits
ART 294	DIRECTED READINGS IN ART II (3T) PREREQUISITE: ART 293 This course offers supervised readings in the literature of visual art. Emphasis is placed on an in-depth analysis of the chosen area of study. Upon completion, students should have an extensive knowledge of an advanced area in art and evidence of their work in the form of research.	3 credits
ART 299	ART PORTFOLIO (2-8E) PREREQUISITE: Permission 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.	1-4 credits

ASTRONOMY (AST)

AST 220	INTRODUCTION TO ASTRONOMY (3T, 2E) 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 extragalactic objects, and cosmology. Laboratory is required.	4 credits
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BARBERING (BAR)

BAR 110	ORIENTATION TO BARBERING (3T) FORMERLY: BAR 101 This course provides an orientation to professional barber styling. Topics include professional image, basic fundamentals, and the history of barber-styling. Upon completion, the student should be able to identify the core concepts of the profession.	3 credits
BAR 111	SCIENCE OF BARBERING (1T, 2E, 3M) FORMERLY: BAR 110 This course introduces the student to the basic science of barber-styling. Topics include anatomy/physiology, disorders, and treatments of the skin, scalp, and hair, and theory of facial and scalp massage. Upon completion, the student should be familiar with the anatomical structures, as well as disorders and treatments of the skin, scalp, and hair.	3 credits
BAR 112	BACTERIOLOGY AND SANITATION (3T) FORMERLY: BAR 101 This course provides the theory of bacteriology and sanitation. Topics include the types of bacteria and sanitation procedures. Upon completion, the student should be able to identify types of bacteria and methods of sanitation.	3 credits
BAR 113	BARBER-STYLING LAB (9M) FORMERLY: BAR 110 This course provides practical application of barber-styling fundamentals. Emphasis is placed on the care of implements, shampooing, and hair cutting. Upon completion, the student should be able to care for his/her implements properly and demonstrate the basic techniques of shampooing and hair cutting with only minimal supervision.	3 credits
BAR 114	ADVANCED BARBER-STYLING LAB (9M) FORMERLY: BAR 120 This course provides the student with practical experience in haircutting and facial massage. Emphasis is placed on hands-on experience. Upon completion, the student should be able to demonstrate on a model the correct procedures for a facial massage and basic haircut.	3 credits

BAR 120	PROPERTIES OF CHEMISTRY (3T) FORMERLY: BAR 102 This course provides the student with a basic knowledge of chemicals used in barber-styling. Topics include the changes produced in the hair and skin through exposure to chemicals, electricity and special light spectrums. Upon completion, the student should understand the proper use of implements and chemicals to treat hair and skin.	3 credits
BAR 121	CHEMICAL HAIR PROCESSING (9M) FORMERLY: BAR 130 This course provides the student with knowledge and hands-on experience using chemicals to alter the appearance of hair. Emphasis is placed on the use of chemicals to relax, wave, and soft curl the hair. Upon completion, the student should be competent in the use of chemicals to produce desired structure changes to the hair.	3 credits
BAR 122	HAIRCOLORING CHEMISTRY (3T) FORMERLY: BAR 102 This course provides the student with a basic knowledge of hair color alteration. Topics include temporary, semi-permanent, and permanent changes. Upon completion, the student should be able to identify and explain the procedures for each classification of hair color alteration.	3 credits
BAR 124	HAIR COLORING METHODOLOGY LAB (9M) FORMERLY: BAR 131 This course provides the student an opportunity for practical application of all classifications of chemical hair coloring and processing products in a supervised environment. Emphasis is placed on experience in all classifications of hair coloring and processing procedures.	3 credits
BAR 130	MARKETING AND BUSINESS MANAGEMENT (3T) FORMERLY: BAR 105 This course provides the student with marketing and management skills that are essential for successful salon management. Topics include first aid, job search, bookkeeping, selling techniques, shop floor plans, shop locations, and legal regulations. Upon completion, the student should be aware of marketing and business management requirements for a successful salon.	3 credits
BAR 131	STRUCTURE AND DISORDERS OF NAILS (1.5T, 4.5M) FORMERLY: BAR 103 This course provides the student with the knowledge of nail structure and experience in identifying nail disorders. Emphasis is placed on identifying disorders and also using the correct implements and supplies for healthy nail care and manicures. Upon completion, the student should be capable of providing professional nail care.	3 credits

BAR 132	HAIR STYLING AND DESIGN (3T) FORMERLY: BAR 104 This course introduces the student to the art of hair style and design. Topics include the selection of styles to create a mood or complement facial features as well as hair replacement and hair pieces. Upon completion, the student should know the principles of style and design.	3 credits
BAR 133	HAIR STYLING AND MANAGEMENT LAB (9M) FORMERLY: BAR 140 This course includes hair styling and management procedure. Emphasis is placed on styling, management, marketing, and legal regulations. Upon completion, the student should be able to integrate a variety of skills and be ready to begin an internship in a salon setting.	3 credits
BAR 140	PRACTICUM (10M) FORMERLY: BAR 150 This course provides the student an opportunity to combine knowledge and skill covering all aspects of barber-styling in a professional setting or school lab with minimal supervision. Emphasis is placed on utilization of the knowledge and technical skills covered in the barbering/styling curriculum. Upon completion, the student should be able to function in a professional setting with very little assistance.	2 credits
BAR 141	PRACTICUM (10M) FORMERLY: BAR 151 This course provides the student an additional opportunity to combine knowledge and skill covering all aspects of barber-styling in a professional setting or school lab with minimal supervision. Emphasis is placed on utilization of the knowledge and technical skills covered in the barbering-styling curriculum. Upon completion, the student should function in a professional setting as a productive employee or manager.	2 credits

BIOLOGY (BIO)

BIO 103	PRINCIPLES OF BIOLOGY I (3T, 2E) 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. Laboratory is required.	4 credits
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Course Descriptions

BIO 104	<p>PRINCIPLES OF BIOLOGY II (3T, 2E) 4 credits FORMERLY: BIO 104 (Animal Biology) and BIO 105 (Plant Biology) PREREQUISITE: BIO 103.</p> <p>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. Laboratory is required.</p>
BIO 201	<p>HUMAN ANATOMY AND PHYSIOLOGY I (3T, 2E) 4 credits PREREQUISITE: BIO 103.</p> <p>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 and physiology are featured in the laboratory experience. Laboratory is required.</p>
BIO 202	<p>HUMAN ANATOMY AND PHYSIOLOGY II (3T, 2E) 4 credits PREREQUISITE: BIO 103 and BIO 201 or BIO 103 and permission of the instructor.</p> <p>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, and physiology are featured in the laboratory experience. Laboratory is required.</p>
BIO 220	<p>GENERAL MICROBIOLOGY (2T, 4E) 4 credits PREREQUISITE: BIO 103.</p> <p>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.</p>
BIO 240	<p>FIELD BIOLOGY (3T, 2E) 4 credits FORMERLY: BIO 280 PREREQUISITE: BIO 103</p> <p>This course covers basic principles of taxonomy, classification, and selected ecological concepts. Animal and plant diversity is emphasized through collection, identification, and museum preparation of local flora and fauna. Laboratory is required.</p>
BIO 250	<p>DIRECTED STUDIES IN BIOLOGY (2-8E) 1-4 credits FORMERLY: BIO 296 PREREQUISITE: Permission of Instructor</p> <p>This course is designed for independent study in specific areas of biology chosen by the student in consultation with a faculty member and carried out under faculty supervision.</p>

BIO 251	<p>DIRECTED STUDIES IN BIOLOGY (2-8E) 1-4 credits PREREQUISITE: BIO 250 and Permission of Instructor</p> <p>This course is designed for independent study in specific areas of biology chosen by the student in consultation with a faculty member and carried out under faculty supervision.</p>
BIO 286,287	<p>FIELD STUDIES IN PLANT ECOLOGY I and II (1-2T, 2-4E) 2-4 credits each PREREQUISITE: Permission of Instructor</p> <p>These courses introduce a strong field component into our Biology program and expose students to unique ecosystems like the Great Smoky Mountains National Park and the Chihuahuan Desert of Big Bend National Park in western Texas. These laboratory intensive courses introduce plants in selected communities and emphasize identification, sampling and collecting techniques in the field.</p>
BIO 288, 289	<p>FIELD STUDIES IN MARINE BIOLOGY I and II (1-2T, 2-4E) 2-4 credits each PREREQUISITE: Permission of Instructor</p> <p>These laboratory intensive courses introduce salt water and marsh environments with emphasis on vertebrates. Pertinent ecological concepts are introduced using sampling, collecting, preserving, and identification techniques. These courses are offered for students to obtain first hand field experience in marine ecosystems especially on the Gulf Coast. In the past students have studied Marine Biology at the Dauphin Island Sea Lab, the Florida State University Marine Laboratory, Dog Island Sound/St. George Island, taken sampling excursions in the Gulf of Mexico aboard research vessels, and studied ornithology and salt water marshes on the Mississippi Sound coastline.</p>

BASIC SKILLS READING (BSR)

BSR 100	<p>IMPROVED COLLEGE READING (2T) 2 credits FORMERLY: RDG 113 COREQUISITE: BSS 118</p> <p>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.</p>
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BASIC STUDY SKILLS (BSS)

BSS 100	<p>STUDY SKILLS (1T) 1 credit</p> <p>This course is intended for those who placed into credit-level course work but who are not maintaining satisfactory academic progress toward meeting program goals. Topics include study skills, note taking, learning styles, and strategies, test taking, goal set-</p>
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ting, and self-assessment skills. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals.

BSS 118 STUDY SKILLS (1T) 1 credit
COREQUISITE: BSR 095
This course covers skills and strategies designed to improve study behaviors. Topics include time management, note taking, test taking, memory techniques, active reading strategies, critical thinking, communication skills, learning styles, and other strategies for effective learning. Upon completion, students should be able to apply appropriate study strategies and techniques to the development of an effective study plan.

BUSINESS (BUS)

BUS 100 INTRODUCTION TO BUSINESS (3T) 3 credits
This is a survey course designed to acquaint the student with American business as a dynamic process in a global setting. Topics include the private enterprise system, forms of business ownership, marketing, factors of production, personnel, labor, finance, and taxation.

BUS 147 INTRODUCTION TO FINANCE (3T) 3 credits
This course is a survey of monetary and credit systems. Topics include the role of the Federal Reserve System, sources of capital, including forms of long-term corporate financing, and consumer credit in the financial structure of our economy.

BUS 150 BUSINESS MATH (3T) 3 credits
This course is a study of practical business mathematics. Topics include fundamental processes of arithmetic with emphasis on decimals and percentages, markup, discounts, bank reconciliation, simple and compound interest, discounting notes, depreciation methods, and present value.

BUS 175 RETAILING (3T) 3 credits
This course is a study of the principles and practices of retailing. Topics include planning, policies and procedures of distribution, store design, layout and location, the economic and social role of retailing, competitive strategies, and retail management.

BUS 176 PROMOTIONAL STRATEGIES (3T) 3 credits
This course provides an overview of the tools and techniques used by businesses in their promotional strategies. Topics include variables affecting promotional decision, information needed to access these variables, the strengths and limitations of methods and strategies, and the fundamentals of managerial decision making.

BUS 177 SALESMANSHIP (3T) 3 credits
This course provides an introduction to the principles and practices of ethical salesmanship. Topics include industrial and retail selling methods of market analysis, professional salesmanship and sales methods, consumer types, attitudes, and behavior.

BUS 178 PURCHASING (3T) 3 credits
This course provides an overview of the principles of purchasing for resale. Topics include buying techniques, market buying systems, financial management of purchasing departments, market information systems, and problems confronting retail and wholesale buyers.

BUS 190 MANAGEMENT WORKSHOP (1-3T) 1 - 3 credits
This course is a part of a series of workshops wherein current topics of interest are presented. They are offered upon demand and can be tailored for the needs of individuals, business and industry.

BUS 190A PEACHTREE ACCOUNTING IN WINDOWS (1-2T) 1 - 2 credits
PREREQUISITE: Some Accounting Knowledge
Peachtree Accounting in Windows is a fully functional accounting software package that will meet the accounting needs of all types of businesses. Topics include setting up an accounting system, General Ledger, Invoicing, Purchasing, Accounts Receivables, Accounts Payable, Cash Receipts and Disbursements, Payroll, Job Costing, and Financial Reports.

BUS 190B PROBLEM SOLVING (1T) 1 credit
The goal of this course is to help students improve problem-solving skills. Emphasis is placed on developing the five-step process for problem solving: Defining the Situation, Stating the Goal, Identifying a Solution, Preparing a Plan, and Taking Action.

BUS 190C TEAMBUILDING (1T) 1 credit
The goal of this course is to help students identify factors and develop the skills necessary for becoming part of a successful team. Emphasis is placed on developing skills in communication, shared leadership, and conflict resolution.

BUS 190D SELF-MANAGEMENT (1T) 1 credit
The goal of this course is to help students build skills necessary to take responsibility and adjust to the changing demands of the workplace. Emphasis is placed on developing abilities to adjust to new technologies or processes, upgrading skills, career planning, and personal transitions.

BUS 190E EMPLOYABILITY SKILLS (1T) 1 credit
The goal of this course is to help students develop skills to make them more employable. Emphasis is placed on developing a professional resume and cover letter, organizing a job search campaign, interviewing, resigning from a position, and accepting new positions.

BUS 190F ORGANIZATIONAL COMMUNICATIONS (1T) 1 credit
The goal of this course is to help students build personal skills that allow them to communicate effectively in the workplace. Emphasis is placed on verbal, non-verbal, and written communications as they relate to professional work habits.

Course Descriptions

BUS 190G	INTERPERSONAL RELATIONS FOR MANAGEMENT (1T) The goal of this course is to help students achieve better interpersonal relationships on the job. Emphasis is placed on the concepts of professional treatment of customers, managing diversity, commitment to quality, managing office politics, developing positive attitudes, and self-discipline.	1 credit		Emphasis is placed on identifying employment needs, training, supervising, and motivating employees.	
BUS 190H	TIME/PROJECT MANAGEMENT (1T) The goal of this course is to assist students in developing effective time management skills. Emphasis is placed on learning to set priorities, make decisions effectively, delegate appropriately, concentrate on specific tasks, and increase personal productivity.	1 credit	BUS 190Q	PLANNING MARKET STRATEGY (1T) This course is designed to allow owners of businesses to develop a market strategy. Included is a discussion of market analysis, competition, sales and distribution, and pricing strategies.	1 credit
BUS 190I	DIRECTED READINGS IN MANAGEMENT (1T) The goal of this course is to allow students to research a current topic of interest. Topics chosen should benefit the student's professional development or allow for gathering beneficial research for the student's place of work.	1 credit	BUS 190R	PROMOTIONAL STRATEGIES (1T) This course allows students to look specifically at two kinds of promotional strategies: Advertising and Public Relations. Students explore how each of these strategies strongly affects the success of a business.	1 credit
BUS 190J	ETHICS IN THE WORKPLACE (1T) The goal of this course is to allow students to explore the arena of ethics in the workplace. Emphasis is placed on ethics case studies.	1 credit	BUS 190S	CHOOSING A LOCATION FOR A BUSINESS (1T) This course is designed to help students planning to start their own business to choose a suitable location and facility. Course content focuses on site location, purchasing or leasing an existing facility, and arranging layout.	1 credit
BUS 190K	STRESS MANAGEMENT (1T) This course is designed to help students develop skills in managing stress associated with careers in business. Emphasis is placed on developing coping skills such as conflict resolution, delegation, and identifying problems early to avoid unnecessary stress.	1 credit	BUS 190T	STATISTICAL PROCESS CONTROL (SPC) - VARIABLE DATA (1T) This course covers descriptive statistics, types of data, and how to calculate, plot, and analyze various variable charts such as average and range, median and range, and standard deviations. Variable charts are used with measurable data.	1 credit
BUS 190L	DEVELOPING A BUSINESS PLAN (1T) This course is designed to give students the opportunity to develop a personal business plan. The course focuses on the following areas: purpose of a business plan, mechanics of writing a business plan, components of a business plan, and research techniques.	1 credit	BUS 190U	STATISTICAL PROCESS CONTROL (SPC) - ATTRIBUTE DATA (1T) This course addresses the development of non-measurable data into attribute charts for analysis of a process capability. Type of charts covered are P, NP, C and U with emphasis given to development of P-type charts.	1 credit
BUS 190M	EVALUATING THE ENTREPRENEURIAL PERSONALITY (1T) This course is designed to allow students to identify in themselves and others characteristics that are favorable for the successful entrepreneur. Self-analysis and a study of entrepreneurial traits are included.	1 credit	BUS 190V	MANAGEMENT FOR ENTREPRENEURS (1T) This course is an overview of the principles of management as it relates to small and self-owned businesses. Emphasis will be on planning, organizing, and controlling.	1 credit
BUS 190N	FINANCING AN ENTREPRENEURIAL ENTERPRISE (1T) This course is designed to inform students about the options available for financing an entrepreneurial enterprise. The course allows students to investigate possible sources of financing and to study topics such as break-even analysis, fixed and variable costs, and financial statements.	1 credit	BUS 190W	CUSTOMER SERVICE STRATEGIES (1T) This course is an overview of the principles of customer service. Emphasis is placed on determining elements of customer satisfaction, creating a customer-focused culture, soliciting and using customer feedback, and building a "relationship" with the customer.	1 credit
BUS 190P	PLANNING FOR SUPERVISING HUMAN RESOURCES (1T) This course is designed to offer insight into the employee relation side of conducting business.	1 credit	BUS 193	BUSINESS CO-OP I (1T) PREREQUISITE: Successful completion of two (2) business courses 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	1 credit

	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 194	BUSINESS CO-OP II (1T) 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.	1 credit	
BUS 195	BUSINESS CO-OP III (1T) 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.	1 credit	
BUS 196	BUSINESS CO-OP IV (1T) 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.	1 credit	
BUS 197	BUSINESS CO-OP V (1T) 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.	1 credit	
BUS 215	BUSINESS COMMUNICATION (3T) 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.	3 credits	
BUS 241	PRINCIPLES OF ACCOUNTING I (3T) 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 analysis.	3 credits	
BUS 242	PRINCIPLES OF ACCOUNTING II (3T) PREREQUISITE: BUS 241 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.	3 credits	
BUS 246	ACCOUNTING ON THE MICROCOMPUTER (3T) PREREQUISITE: BUS 241 This course utilizes the microcomputer in the study of financial accounting principles and practices. Emphasis is placed on the use of software programs for financial accounting principles. Upon completion of this course the student will be able to use software programs for financial accounting applications.	3 credits	
BUS 248	MANAGERIAL ACCOUNTING (3T) PREREQUISITE: BUS 241 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.	3 credits	
BUS 253	INDIVIDUAL INCOME TAX (3T) 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.	3 credits	
BUS 261	BUSINESS LAW I (3T) This course provides an overview of legal principles affecting businesses. Topics include contracts, agency and employment, negotiable instruments, bailments and sale of goods.	3 credits	

Course Descriptions

BUS 262	BUSINESS LAW II (3T) This course is a continuation of BUS 261. Topics include legal principles related to partnerships, corporations, real property and leases, insurance, security devices, bankruptcy, trust and estates; government regulations of business and labor; civil and criminal liability; and business security.	3 credits	BUS 280	INDUSTRIAL MANAGEMENT (3T) This course provides an overview of management in an industrial setting. Topics include operations analysis, research and development, physical facilities, production planning, productivity improvement, product flow, quality control, jobs and wages, and employee motivation.	3 credits
BUS 263	THE LEGAL AND SOCIAL ENVIRONMENT OF BUSINESS (3T) 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.	3 credits	BUS 285	PRINCIPLES OF MARKETING (3T) This course provides a general overview of the field of marketing. Topics include marketing strategies, channels of distribution, marketing research, and consumer behavior.	3 credits
BUS 271	BUSINESS STATISTICS I (3T) PREREQUISITE: Two years of high school algebra, intermediate college algebra, or appropriate score on math placement test 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.	3 credits	BUS 291	ALTERNATING BUSINESS CO-OP I (1-3T) 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.	1-3 credits
BUS 272	BUSINESS STATISTICS II (3T) PREREQUISITE: BUS 271 This course is a continuation of BUS 271. Topics include sampling theory, statistical interference, regression and correlation, chi square, analysis of variance, time series index numbers, and decision theory.	3 credits	BUS 292	ALTERNATING BUSINESS CO-OP II (1-3T) 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.	1-3 credits
BUS 275	PRINCIPLES OF MANAGEMENT (3T) 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.	3 credits	BUS 296	BUSINESS INTERNSHIP I (3T) PREREQUISITE: Minimum 6 semester hours completed. Minimum GPA 2.0 (C) 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.	3 credits
BUS 276	HUMAN RESOURCE MANAGEMENT (3T) 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.	3 credits			
BUS 279	SMALL BUSINESS MANAGEMENT (3M) This course provides an overview of the creation and operation of a small business. Topics include buying a franchise, starting a business, identifying capital resources, understanding markets, managing customer credit, managing accounting systems, budgeting systems, inventory systems, purchasing insurance, and the importance of appropriate legal counsel.	3 credits			

BUS 297 BUSINESS INTERNSHIP II (3T) 3 credits
PREREQUISITE: Minimum 6 semester hours completed. Minimum GPA 2.0 (C)
 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.

CONSUMER ELECTRONICS (CCT)

CCT 251 CET PREPARATION (3T) 3 credits
PREREQUISITE: Instructor Approval
 This course is designed to prepare students for the Associate Certified Electronics Technicians (CET) examination. This course covers a wide spectrum of materials presented in the electronics program. Upon completion, students should be able to pass the CET exam. Taught on Demand.

CHEMISTRY (CHM)

CHM 099 DEVELOPMENTAL CHEMISTRY (3T) 3 credits
 This course is designed for students with little or no background in chemistry. This preparatory course offers a detailed review of the mathematical base for chemistry, including formulas and equations, and covers basic chemical calculations of stoichiometry, gas laws and solutions. Laboratory techniques and safety are also included.

CHM 104 INTRODUCTION TO INORGANIC CHEMISTRY (3T, 2E) 4 credits
FORMERLY: CHM 101 (Introduction to General Chemistry)
PREREQUISITE: MTH 098 Elementary Algebra 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 105 INTRODUCTION TO ORGANIC CHEMISTRY (3T, 2E) 4 credits
FORMERLY: CHM 102
PREREQUISITE: CHM 104 (Formerly CHM 101) or CHM 111 (Formerly CHM 113)
 This is a survey course of organic chemistry and bio-

CHM 111 COLLEGE CHEMISTRY I (3T, 2E) 4 credits
FORMERLY: CHM 113 and CHM 114
PREREQUISITE: MTH 112, Precalculus Algebra or CHM 099

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, 2E) 4 credits
FORMERLY: CHM 114 and CHM 115
PREREQUISITE: CHM 111 (Formerly CHM 113)

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 220 QUANTITATIVE ANALYSIS (3T, 2E) 4 credits
PREREQUISITE: CHM 112 (Formerly CHM 114 and 115)

This course covers the theories, principles, and practices in standard gravimetric, volumetric, calorimetric, and electrometric analysis with special emphasis on equilibrium in acid-base and oxidation-reduction reactions and stoichiometry of chemical equations. Laboratory is required and will include classical techniques in chemical analysis, modern methods of chemical separation, and basic instrumental techniques. NOTE: Taught only in spring semester of even numbered years, and only on the Decatur campus.

Course Descriptions

CHM 221 ORGANIC CHEMISTRY I
(3T, 2E) **4 credits**
FORMERLY: CHM 233 and CHM 234
PREREQUISITE: CHM 112 (Formerly CHM 114 and CHM 115)

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, 2E) **4 credits**
FORMERLY: CHM 234 and CHM 235
PREREQUISITE: CHM 221 (Formerly CHM 233 and 234)

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 (1T) **1 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 EARLY CARE AND EDUCATION OF CHILDREN**
(2T, 2E) **3 credits**

This course introduces the childcare profession including the six functional areas of the Child Development Associate (CDA) credential. Emphasis is placed on using positive guidance techniques, setting up a classroom and planning a schedule. Upon completion students should be able to create and modify children's environments to meet individual needs, use positive guidance to develop positive relationships with children, and promote children's self-esteem, self-control and self-motivation.

CHD 101 CHILD GROWTH AND DEVELOPMENT PRINCIPLES (2T, 2E) **3 credits**

This course is a systematic study of child growth and development from conception through early childhood. Emphasis is placed on principles underlying physical, mental, emotional, and social development,

methods of child study, and practical implications. Upon completion, students should be able to use knowledge of how young children differ in their development and approaches to learning to provide opportunities that support the physical, social, emotional, language, cognitive, and aesthetic development of children.

***CHD 102 CREATIVE EXPERIENCES IN EARLY CHILDHOOD EDUCATION (2T, 2E)** **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. Upon completion, students should be able to select and implement creative and age-appropriate experiences for young children.

CHD 103 LANGUAGE AND LITERACY DEVELOPMENT IN PRESCHOOL EDUCATION (2T, 2E) **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 106 CHILDREN'S HEALTH, SAFETY, AND NUTRITION (3T) **3 credits**

This course introduces basic health, nutrition and safety management practices for young children. Emphasis is placed on setting up and maintaining a safe, healthy environment for young children including specific procedures for infants and toddlers and procedures regarding childhood illnesses and communicable diseases. Upon completion, students should be able to prepare a healthy, safe environment, plan nutritious meals and snacks, and recommend referrals, if necessary.

CHD 111 CHILD DEVELOPMENT SEMINAR (1-2T) **1-2 credits**

A selection of topics relating to young children is addressed in this course. Subject matter will vary according to industry and student needs. Upon completion, students should demonstrate competencies designed to assess course objectives.

CHD 112 SPECIAL TOPICS (3T) **3 credits**

PREREQUISITE: Permission of Instructor
A selection of topics relating to young children is addressed in this practicum. Subject matter and projects will vary according to industry and student needs. Upon completion, students should demonstrate competencies designed to assess course objectives.

CHD 117 SPECIAL TOPICS (3T) 3 credits
PREREQUISITE: Permission of Instructor
 A selection of topics relating to young children is addressed in this combined theory and lab. Subject matter and projects will vary according to industry and student needs. Upon completion, students should demonstrate competencies designed to assess course objectives.

CHD 118 CHILD CARE PRACTICUM (2T) 2 credits
PREREQUISITE: Permission of Instructor
 Case studies will be developed to challenge the student to solve problems encountered in today's small businesses. The student will be required to apply a theoretical base to solve case studies and to defend solutions to case studies.

CHD 119 SUPERVISED PRACTICAL EXPERIENCE (2T) 2 credits
 This course provides a minimum of 150 hours of hands-on, supervised experience in an approved program for young children. Emphasis is placed on performance of daily duties which are assessed by the college instructor and the cooperating teacher. Upon completion, students should be able to demonstrate competency in a child care setting.

CHD 130 INTRODUCTION TO SCHOOL-AGE PROGRAMS (3T) 3 credits
 This course will introduce and discuss the unique aspects of quality school-age programs and the roles of the adult staff. Topics will include a brief view of child development, positive guidance techniques, administrative considerations, beginning program planning, and adaptations for a variety of program settings. Upon completion, students should be able to understand the staff's role, create and modify unique program settings, use positive guidance and implement a quality program.

CHD 131 SCHOOL-AGE PROGRAMMING (3T) 3 credits
 This course focuses on the specialized variety of needs for a quality school-age program. Topics will include program planning and material considerations for a variety of quiet/active indoor/outdoor activities, health/safety/nutrition needs, parent and community information and involvement. Upon completion, the student should be able to select a variety of age-appropriate activities; implement a safe, healthy, quality program; and effectively communicate with parents and the community.

***CHD 204 METHODS AND MATERIALS FOR TEACHING PRESCHOOL CHILDREN (1-3T, 2-6E) 1-3 credits**
FORMERLY: CHD 104
 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 should be able to demonstrate basic

CHD 205 DEVELOPING PROGRAMS FOR PRESCHOOL CHILDREN (3T) 3 credits
FORMERLY: CHD 105
PREREQUISITE: CHD 204
 This course is designed to give students practice in lesson and unit planning, writing behavioral objectives, and evaluating activities taught to young children. Emphasis is placed on identifying basic aspects of cognitive development and how children learn. Upon completion, students should be able to plan and implement developmentally appropriate curriculum and instructional practices based on knowledge of individual differences and the curriculum goals and content.

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 (2-3T, 0-2E) 3 credits
 Select one of three course options: CHD 209, CHD 221, or CHD 224. This course focuses on child development from infancy to thirty months of age with emphasis on planning programs using developmentally appropriate material. Emphasis is placed on positive ways to support an infant's social, emotional, physical and intellectual development. Upon completion, students should be able to plan an infant-toddler program and environment, which is appropriate and supportive of the families and the children.

CHD 210 EDUCATING EXCEPTIONAL YOUNG CHILDREN (2T, 2E) 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 young exceptional children.

CHD 212 CHILD DEVELOPMENT ASSOCIATE SEMINAR (2T, 2E) 3 credits
 This course includes topics from competency areas required for individuals working toward or renewing CDA credentials. Industry needs determine course topics. Upon completion, students will demonstrate competency in meeting course objectives.

Course Descriptions

CHD 213 CHILD DEVELOPMENT TRENDS SEMINAR (1-3T) 1-3 credits
This course includes current topics in the child development field as an update for the professional caregiver. Industry needs determine course topics. Upon completion, students will demonstrate competency in meeting course objectives.

CHD 215 SUPERVISED PRACTICAL EXPERIENCES IN EARLY CHILDHOOD EDUCATION (6E) 3 credits
FORMERLY: CHD 107
PREREQUISITE: Permission of Instructor
This course provides a minimum of 90 hours of hands-on, supervised experience in an approved program for young children. Emphasis is placed on performance of daily duties, which are assessed by the college instructor and the cooperating teacher. Upon completion, students should be able to demonstrate competency in a childcare setting.

CHD 219 COMPETENT INFANT AND TODDLER CARE (3T) 3 credits
This course provides guidelines for the professional ethics and responsibilities of teachers who work with infants and toddlers. Emphasis is placed on the health, nutrition, safety, parental involvement, record keeping and other responsibilities, especially for children ages birth to 30 months.

CHD 221 FAMILY CHILD CARE (3T) 3 credits
Select one of three course options: CHD 209, CHD 221, or CHD 224. This course introduces methods of providing a developmentally-appropriate child care program in a home setting, to include organizing home environments, establishing a daily schedule with children of different ages, building partnerships with parents, helping children learn through play, etc. A special instruction addresses family care as a small business operation, with emphasis being placed on budgeting and tax requirements.

CHD 224 SCHOOL AGE CHILD CARE (3T) 3 credits
Select one of three course options: CHD 209, CHD 221, or CHD 224. This course is designed for caregivers/teachers providing programs for children age 5-12 in their after school care needs. The course provides information on developmental profiles, discusses family concerns and includes a variety of activities that caregivers can adopt to provide an educational and stimulating program.

***Courses required in the Child Development Associate (CDA) Certification for employees currently employed within the industries.**

COMPUTER INFORMATION SYSTEMS (CIS)

CIS 100 INTRODUCTORY COMPUTER SKILLS I (4E) 2 credits
This course places emphasis on the usage of personal computers and software applications for personal and workplace use. Topics include impact of computers in business and industry, word processing, spreadsheets, ethical issues, database, and related concepts. Upon completion, the student will be able to demonstrate computer skills as applied to occupational-related fields. This course fulfills the CIS requirement only for certificate programs of study.

CIS 103 INTRODUCTORY COMPUTER SKILLS II (3T) 3 credits
This course is designed to focus on the development of computer skills suited to the needs of students in non-degree occupational programs. The course will generally use software packages appropriate to occupational programs and may include such topics as word processing, database, basic graphics, spreadsheets or other features typically needed in the field. Upon completion, the student will be able to demonstrate proficiency by the completion of appropriate assignments and occupation-specific applications. This course fulfills the CIS requirement only for certificate programs of study.

CIS 130 INTRODUCTION TO INFORMATION SYSTEMS (3T) 3 credits
This course is an introduction to computers that reviews computer hardware and software concepts such as equipment, operations, communications, programming and their past, present and future impact on society. Topics include computer hardware, various types of computer software, communication technologies and program development using computers to execute software packages and/or to write simple programs. Upon completion, students should be able to describe and use the major components of selected computer software and hardware.

CIS 146 MICROCOMPUTER APPLICATIONS (3T) 3 credits
This course is an introduction to the most common software applications of microcomputers and includes "hands-on" use of microcomputers and some of the major commercial software. These software packages should include typical features of office suites, such as word processing, spreadsheets, database systems, and other features found in current software packages. Upon completion, students will understand common applications and be able to utilize selected features of these packages.

CIS 147 ADVANCED MICRO APPLICATIONS (3T) 3 credits
PREREQUISITE: CIS 146, Microcomputer Applications
This course is a continuation of CIS 146 in which students utilize the advanced features of topics in CIS 146 and introduce additional topics of office suite software. Advanced features of word processing, spreadsheets, database, 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 211	BASIC PROGRAMMING (3T) 3 credits This course introduces fundamental concepts of the BASIC Programming language. This course includes file processing, internal sorts, and data structures. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.
CIS 196	<p>COMMERCIAL SOFTWARE APPLICATIONS (1-3T) 1-3 credits This is a "hands-on" introduction to software packages, languages, and utility programs currently in use, with the course being able to be repeated for credit for each different topic being covered. Emphasis is placed on the purpose, capabilities and utilization of each package, language or program. Upon completion, students will be able to use the features selected for the application covered.</p> <ul style="list-style-type: none"> A. MS Windows 98 B. MS Word for Windows C. MS Excel for Windows D. PowerPoint for Windows E. Access for Windows F. WordPerfect for Windows G. Quattro Pro for Windows H. Paradox for Windows I. WordPerfect Presentations J. Intro to Software/Hardware K. Microcomputer Utilities L. Introduction to the Internet M. Introduction to GIS N. Telecommunications Software O. Lotus 1-2-3 for Windows P. MS Foxpro Q. Pagemaker R. MS Works for Windows 95 S. MS Publisher T. Toolbox 	CIS 212	<p>VISUAL BASIC (3T) 3 credits This course places emphasis on BASIC programming using a graphical user interface. The course will emphasize graphical user interfaces with additional topics in such areas as advanced file handling techniques, simulation, and other selected areas. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.</p>
		CIS 221	<p>PASCAL PROGRAMMING (3T) 3 credits PREREQUISITE: MTH 112 This course introduces fundamental concepts, including an algorithmic approach to problem solving via the design and implementation of programs in Pascal. Structured programming techniques and simple data structures are introduced. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.</p>
		CIS 231	<p>FORTRAN PROGRAMMING (3T) 3 credits PREREQUISITE: MTH 112 and a previous computer science course or equivalent This course introduces fundamental concepts of the programming language FORTRAN. Topics included are mathematical and relational operators, branching, the use of input devices, arrays, subprograms, and introductory file and disk operation. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.</p>
CIS 197	<p>ADVANCED COMMERCIAL SOFTWARE APPLICATIONS (1-3T) 1-3 credits PREREQUISITE: CIS 196 or Permission of Instructor This course provides the student with hands-on experience in using the advanced features of software packages, languages, and utility programs currently in use. Each offering focuses on one software package with credit being received for each different package. Upon completion, students will be able to use the features selected for the application covered.</p> <ul style="list-style-type: none"> B. Advanced Word for Windows C. Advanced Excel for Windows D. Advanced PowerPoint for Windows E. Advanced Access for Windows F. Advanced WordPerfect for Windows H. Advanced Paradox O. Advanced Lotus 1-2-3 for Windows P. Advanced FoxPro 	CIS 232	<p>ADVANCED FORTRAN PROGRAMMING (3T) 3 credits PREREQUISITE: CIS 231 FORTRAN programming This course is a continuation of CIS 231. It presents the principles and techniques of programming applications. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.</p>
		CIS 236	<p>SCIENTIFIC COMPUTATION (3T) 3 credits PREREQUISITE: MTH 125 Calculus I. This course presents the principles and techniques of a scientific programming language such as FORTRAN with applications in engineering, science, and mathematics.</p>
CIS 198	<p>WEB PAGE DEVELOPMENT (3T) 3 credits This course is an introduction to Web page development techniques. Topics in this course include HTML, scripting languages and commercial software packages used in the development of Web pages. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of Web page development projects and appropriate tests.</p>	CIS 251	<p>C PROGRAMMING (3T) 3 credits This course is an introduction to the C Programming language. Included in this course are topics in an algorithmic approach to problem solving, structured programming techniques and constructs, using functions and macros, simple data structures, and using</p>

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	files for input and output. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.			introduction to Novell Netware and the Internet are included.
CIS 252	ADVANCED C PROGRAMMING (3T) 3 credits PREREQUISITE: CIS 251. This course is a continuation of the CIS 251 course in C Programming. Techniques for the improvement of application and systems programming will be covered and other topics may include memory management, C Library functions, debugging, portability, and reusable code. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.		CIS 292	ADA PROGRAMMING (3T) 3 credits This course is an introduction to the Ada Programming language. Included in this course are topics in problem solving, programming techniques and constructs, and simple data structures.
CIS 255	JAVA PROGRAMMING (3T) 3 credits This course is an introduction to the Java programming language. Topics in this course include object-oriented programming constructs, Web page applet development, class definitions, threads, events and exceptions. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.		CIS 295	BUSINESS SYSTEMS DESIGN (3T) 3 credits PREREQUISITE: Permission of Instructor This course is designed to assist students in understanding techniques and procedures for developing a systems project. Students will study the functions of a system analyst with real life problems and situations. The design of a system is covered from preliminary investigation through implementation and evaluation.
CIS 261	COBOL PROGRAMMING (3T) 3 credits This course is an introduction to the COBOL programming language. Included are structured programming techniques, report preparation, arithmetic operations, conditional statements, group totals, and table processing. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.		CIS 299	DIRECTED STUDIES IN COMPUTER SCIENCE (1-3T) 1-3 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.
CIS 262	ADVANCED COBOL PROGRAMMING (3T) 3 credits PREREQUISITE: CIS 261 This course consists of development, completion, testing, and execution of complex problems in COBOL using various data file structures. A structured approach will be implemented as a methodological system. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.		COSMETOLOGY INSTRUCTOR TRAINING (CIT)	
CIS 281	SYSTEMS ANALYSIS AND DESIGN (3T) 3 credits PREREQUISITE: Any advanced programming course. This course is a study of contemporary theory and system analysis and design. Emphasis is placed on investigating, analyzing, designing, implementing, and documenting computer systems. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.		CIT 211	TEACHING & CURRICULUM DEVELOPMENT (3T) 3 credits PREREQUISITE: Licensed managing cosmetologist 1 year experience This course focuses on the principles of teaching, teaching maturity, personality conduct, and the development of cosmetology curriculum. Emphasis is placed on teacher roles, teaching styles, teacher challenges, aspects of curriculum development, and designing individual courses. Upon completion, the student should be able to describe the role of teacher, identify means of motivating students, develop a course outline, and develop lesson plans.
CIS 288	MICROCOMPUTER NETWORKING (3T) 3 credits This course is an introduction to networking and data communications with an emphasis on microcomputers. Topics covered in the course include LAN design and use, different LAN topologies and protocols. An		CIT 212	TEACHER MENTORSHIP (9M) 3 credits FORMERLY: COS 261 PREREQUISITE: Licensed managing cosmetologist 1 year experience This course is designed to provide the practice through working with a cosmetology instructor in a mentoring relationship. Emphasis is placed on communication, student assessment, and assisting students in the lab. Upon completion, the student should be able to communicate with students, develop a course of study, and apply appropriate teaching methods.
			CIT 213	LESSON PLAN DEVELOPMENT (3T) 3 credits FORMERLY: COS 231 and COS 241 COREQUISITE: CIT 211, 212, or Permission of Instructor

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	demonstrate skills in programming, operations, and setup of CNC machining centers.				
CNC 222	COMPUTER NUMERICAL CONTROL GRAPHICS: TURNING (1T, 4E) PREREQUISITE: MTT 215 This course introduces Computer Numerical Control graphics programming and concepts for turning center applications. Emphasis is placed on the interaction of menus to develop a shape file in a graphics CAM system and to develop tool path geometry and part geometry. Upon completion, students should be able to develop a job plan using CAM software, include machine selection, tool selection, operational sequence, speed, feed and cutting depth.	3 credits	COS 112	COSMETOLOGY SCIENCE AND ART LAB (9M) FORMERLY: COS 110 COREQUISITE: COS 111 or Permission of Instructor In this course, students are provided the practical experience for sanitation, shampooing, hair shaping, hair styling, and nail care. Emphasis is placed on sterilization, shampooing, hair shaping, hairstyling, manicuring, and pedicuring. Upon completion, the student should be able to perform safety and sanitary precautions, shampooing, hair shaping, hairstyling, and nail care procedures.	3 credits
CNC 223	COMPUTER NUMERICAL CONTROL GRAPHICS PROGRAMMING: MILLING (1T, 4E) PREREQUISITE: MTT 215 This course introduces Computer Numerical Control graphics programming and concepts for machining center applications. Emphasis is placed on developing a shape file in a graphics CAM system and transferring coded information from CAM graphics to the CNC milling center. Upon completion, students should be able to develop a complete job plan using CAM software to create a multi-axis CNC program.	3 credits	COS 113	CHEMICAL METHODOLOGY (1T, 2E, 3M) FORMERLY: COS 102 COREQUISITE: COS 114 or COS 115, or Permission of Instructor This course focuses on the theory of hair and scalp disorders, permanent waving, chemical relaxers, and the composition of the hair. Topics include disorders and analysis of the scalp and hair, permanent waving, chemical hair relaxing, and soft curling. Upon completion, the student should be able to write procedures for permanent waving and chemical relaxing, identify the composition of the hair, safety and sanitary precautions and steps for scalp and hair analysis as well as the disorders.	3 credits
CNC 229	TOTAL QUALITY MANAGEMENT (3T) This is an introductory course designed to cover Total Quality Management (TQM) concepts. Topics include common direction, team building, statistical analysis, and problem solving skills and techniques. Upon completion, students will acquire a knowledge in TQM as it relates to the industrial setting.	3 credits	COS 114	CHEMICAL METHODOLOGY LAB (9M) FORMERLY: COS 120 COREQUISITE: COS 113 or Permission of Instructor In this course, students are provided the practical experience of permanent waving, chemical relaxing, and hair analysis. Topics include permanent waving, chemical relaxing, soft curl, and scalp and hair analysis. Upon completion, the students should be able to analyze the scalp and hair and perform these chemical services using safety and sanitary precautions.	3 credits
CNC 230	COMPUTER NUMERICAL CONTROL SPECIAL PROJECTS (3M) PREREQUISITE: Permission of Instructor This course is designed to allow students to work in the lab with limited supervision. The student is to enhance his/her proficiency levels on various CNC machine tools. Upon completion, students are expected to plan, execute, and present results of advanced CNC products.	3 credits	COS 121	COLORIMETRY (3T) FORMERLY: COS 102 COREQUISITE: COS 122 or Permission of Instructor In this course, students learn the techniques of hair coloring and hair lightening. Emphasis is placed on color application, laws, levels and classifications of color and problem solving. Upon completion, the student should be able to identify all phases of hair coloring and the effects of the hair.	3 credits
COSMETOLOGY (COS)					
COS 111	COSMETOLOGY SCIENCE AND ART (3T) FORMERLY: COS 101 COREQUISITE: COS 112 or Permission of Instructor In this course, students are provided a study of personal and professional image, ethical conduct, sanitation, hair styling, and nail care. Topics include personal and professional development, bacteriology, decontamination, infection control, draping, shampooing, conditioning, hair shaping, and hair styling. Upon completion, students should be able to apply safety rules and regulations and write procedures for skills identified in this course.	3 credits	COS 122	COLORIMETRY APPLICATIONS (9M) FORMERLY: COS 120 COREQUISITE: COS 121 or Permission of Instructor In this course, students apply hair coloring and hair lightening techniques. Topics include consultation, hair analysis, skin test and procedures and applications of all phases of hair coloring and lightening. Upon completion, the student should be able to perform procedures for hair coloring and hair lightening.	3 credits
			COS 123	COSMETOLOGY SALON PRACTICES (9M) FORMERLY: COS 140 This course is designed to allow students to practice	3 credits

	all phases of cosmetology in a salon setting. Emphasis is placed on professionalism, receptionist duties, hair styling, hair shaping, chemical, and nail and skin services for clients. Upon completion, the student should be able to demonstrate professionalism and the procedures of cosmetology in a salon setting.		
COS 124	INTRODUCTION TO SALON MANAGEMENT (3T) FORMERLY: COS 104 In this course, students will develop entry-level management skills for the beauty industry. Topics include job-seeking, leader and entrepreneurship development, business principles, business laws, insurance, marketing, and technology issues in the workplace. Upon completion, the student should be able to list job-seeking and management skills and the technology that is available for use in the salon.	3 credits	
COS 131	ESTHETICS (3T) FORMERLY: COS 103 COREQUISITE: COS 132 or Permission of Instructor This course is the study of cosmetic products, massage, skin care, and hair removal, as well as identifying the structure and function of various systems of the body. Topics include massage, skin analysis, skin structure, disease and disorder, light therapy, facials, facial cosmetics, anatomy, and hair removal. Upon completion, the student should be able to state procedures for analysis, light therapy, facials, hair removal, and identify the structures, functions and disorders of the skin.	3 credits	
COS 132	ESTHETICS APPLICATIONS (9M) FORMERLY: COS 130 COREQUISITE: COS 131 or Permission of Instructor This course provides practical applications related to the care of the skin and related structure. Emphasis is placed on facial treatments, product application, skin analysis, massage techniques, facial make-up, and hair removal. Upon completion, the student should be able to prepare clients, assemble sanitized materials, follow procedures for product application, recognize skin disorders, demonstrate facial massage movement, cosmetic application, and hair removal using safety and sanitary precautions.	3 credits	
COS 143	HAIR DESIGNS (1T, 2E, 3M) FORMERLY: COS 105 This course focuses on the theory and practice of hair design. Topics include creating styles using basic and advanced techniques of back combing, up sweeps, and braiding. Upon completion, the student should be able to demonstrate the techniques and procedures for hair designing.	3 credits	
COS 146	HAIR ADDITIONS (2T, 2E, 3M) FORMERLY: COS 104 This course focuses on the practice of adding artificial hair. Topics include hair extensions, weaving, and braiding. Upon completion, the student should be able to demonstrate the techniques and procedures for attaching human hair and synthetic hair.	4 credits	
COS 151	NAIL CARE (3T) FORMERLY: COS 105 and COS 106 COREQUISITE: COS 152 or Permission of Instructor This course focuses on all aspects of nail care. Topics include salon conduct, professional ethics, sanitation, nail structure, manicuring, pedicuring, nail disorders, and anatomy and physiology of the arm and hand. Upon completion, the student should be able to demonstrate professional conduct, recognize nail disorders and diseases, and identify the procedures for sanitation and nail care services.	3 credits	
COS 152	NAIL CARE APPLICATIONS (9M) FORMERLY: COS 150 and COS 160 COREQUISITE: COS 151 or Permission of Instructor This course provides practice in all aspects of nail care. Topics include salon conduct, professional ethics, bacteriology, sanitation and safety, manicuring and pedicuring. Upon completion, the student should be able to perform nail care procedures.	3 credits	
COS 153	NAIL ART (3T) FORMERLY: COS 107 COREQUISITE: COS 154 or Permission of Instructor This course focuses on advanced nail techniques. Topics include acrylic, gel, fiberglass nails, and nail art. Upon completion, the student should be able to identify the different types of sculptured nails and recognize the different techniques of nail art.	3 credits	
COS 154	NAIL ART APPLICATIONS (9M) FORMERLY: COS 170 COREQUISITE: COS 153 or Permission of Instructor This course provides practice in advanced nail techniques. Topics include acrylic, gel, fiberglass nails, and nail art. Upon completion, the student should be able to perform the procedures for nail sculpturing and nail art.	3 credits	
	<i>The following labs are designed for students in need of additional lab hours or services in preparation for licensure exams. The labs will be directed by instructors according to the student's area of specialty and may be taken during the course of the program as needed.</i>		
COS 160	IMAGE PROJECTION (9M) FORMERLY: COS 180 This course includes the study of professionalism, personal development, and ethics related to skin care. Topics include practical applications for hygiene, care of the feet and nails, and human relations. Upon completion, the student will be able to project visual poise and demonstrate professionalism needed in customer service.	3 credits	
COS 161	SPECIAL TOPICS IN COSMETOLOGY (1T) FORMERLY: COS 297 OL PREREQUISITE: Permission of Instructor This course is designed to survey current trends and developing technology for the cosmetology profession. Emphasis is placed on, but is not limited to,	1 credit	

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	dependability, attitude, professional judgement, emerging trends, new styling techniques, and practical cosmetology skills. Upon completion, students should have developed new skills in areas of specialization for the cosmetology profession.				
COS 162	SPECIAL TOPICS IN COSMETOLOGY (2T) FORMERLY: COS 296OL PREREQUISITE: Permission of Instructor This course is designed to survey current trends and developing technology for the cosmetology profession. Emphasis is placed on, but is not limited to, dependability, attitude, professional judgment, emerging trends, new styling techniques, and practical cosmetology skills. Upon completion, students should have developed new skills in areas of specialization for the cosmetology profession.	2 credits			FORMERLY: COS 181 In this skin care course, emphasis is placed on the decontamination, infection control and safety practiced in the esthetics facility. Topics covered include demonstration of sanitation, sterilization methods and bacterial prevention. Upon completion, the student will be able to properly sanitize facial implements and identify non-reusable items.
COS 163	FACIAL TREATMENTS (3T) FORMERLY: COS 191 This course includes all phases of facial treatments in the study of skin care. Topics include treatments for oily, dry, and special skin applications. Upon completion, students will be able to apply facial treatments according to skin type.	3 credits	COS 169	SKIN FUNCTIONS (9M) FORMERLY: COS 190 This course introduces skin functions and disorders. Topics include practical application for skin disorder treatments, dermabrasion, and skin refining. Upon completion of this course, students will be able to demonstrate procedures for acne, facials, and masks for deeper layers and wrinkles.	3 credits
COS 164	FACIAL MACHINE (9M) FORMERLY: COS 202 This is a course designed to provide practical experience using the vapor and facial machine with hydraulic chair. Topics include the uses of electricity and safety practices, machines and apparatus, use of the magnifying lamp, and light therapy. Upon completion, the student will be able to demonstrate an understanding of electrical safety and skills in the use of facial machines.	3 credits	COS 190	INTERNSHIP IN COSMETOLOGY (5-15M) FORMERLY: COS 141 AND COS 161 PREREQUISITE: Permission of Instructor This course is designed to provide exposure to cosmetology practices in non-employment situations. Emphasis is on dependability, attitude, professional judgment, and practical cosmetology skills. Upon completion, the student should have gained skills necessary for entry-level employment.	1-3 credits
COS 165	RELATED SUBJECTS-ESTHETICIANS (9M) FORMERLY: COS 203 This course includes subjects related to the methods for removing unwanted hair. This course includes such topics as electrolysis information and definitions, safety methods of permanent hair removal, the practice of removal of superfluous hair, and the use of depilatories. Upon completion of this course, students will be able to apply depilatories and practice all safety precautions.	3 credits	COS 191	CO-OP (5-15M) FORMERLY: COS 151 and COS 171 PREREQUISITE: Permission of Instructor This course provides work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.	1-3 credits
COS 166	COLOR PSYCHOLOGY – COORDINATION (9M) FORMERLY: COS 204 This skin care course is designed for the make-up artistry requirements to be a professional make-up artist. Topics in this course include art make-up techniques for all skin types, sanitation of application tools and color tonality as it relates to make-up. Upon completion of this course, students will be able to apply make-up after determining correct skin tones, skin types and facial shapes, and design personalized make-up techniques for clients.	3 credits			
COS 168	BACTERIOLOGY AND SANITATION (3T)	3 credits			
				CRIMINAL JUSTICE (CRJ)	
			CRJ 100	INTRODUCTION TO CRIMINAL JUSTICE (3T) 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.	3 credits
			CRJ 110	INTRODUCTION TO LAW ENFORCEMENT (3T) 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.	3 credits
			CRJ 130	INTRODUCTION TO LAW AND JUDICIAL PROCESS (3T) This course provides an introduction to the basic elements of substantive and procedural law and the	3 credits

- 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 attention to the Alabama Code. Areas of criminal procedure essential to the criminal justice professional 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 looks at the operation, organization and problems in providing safety and security to business enterprises. Private, retail and industrial security are covered.
- CRJ 161 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 162 SECURITY RISK MANAGEMENT (3T) 3 credits**
This course deals with the identification of assets, threats, and vulnerabilities, and the development of countermeasures.
- CRJ 163 SECURITY MANAGEMENT (3T) 3 credits**
This course introduces the student to sound security management theories, principles, budgeting, communications, and education.
- CRJ 164 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 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 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.



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CRJ 230	CRIMINALISTICS (3T) 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.	3 credits	DNT 102	DENTAL MATERIALS (2T, 3S) FORMERLY: DNT 116 PREREQUISITE: Admission to the Dental Assisting Program and Permission of Instructor COREQUISITES: DNT 100, DNT 101, DNT 103, DNT 113, PSY 200 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.	3 credits
CRJ 256	CORRECTIONAL REHABILITATION (3T) 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.	3 credits			
CRJ 280	INTERNSHIP IN CRIMINAL JUSTICE (1-3T) 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.	1-3 credits	DNT 103	ANATOMY AND PHYSIOLOGY FOR DENTAL ASSISTING (3T) FORMERLY: DNT 186 and BIO 141 PREREQUISITE: Admission to Dental Assisting Program and Permission of Instructor COREQUISITE: DNT 100, DNT 101, DNT 102, DNT 113, PSY 200 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.	3 credits
CRJ 290	SELECTED TOPICS - SEMINAR IN CRIMINAL JUSTICE (1-3T) 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.	1-3 credits			
DENTAL ASSISTING (DNT)					
DNT 100	INTRODUCTION TO DENTAL ASSISTING (2T) PREREQUISITE: Admission to the Dental Assisting Program and Permission of Instructor COREQUISITE: DNT 101, DNT 102, DNT 103, DNT 113, PSY 200 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.	2 credits	DNT 104	BASIC SCIENCES FOR DENTAL ASSISTING (2T) FORMERLY: DNT 187 and BIO 142 PREREQUISITE: Admission to Dental Assisting Program and Permission of Instructor COREQUISITE: DNT 111, DNT 112, DNT 124, MTH 100 or 112 or 116, SPH 107 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.	2 credits
DNT 101	PRE-CLINICAL PROCEDURES I (2T, 3S) FORMERLY: DNT 101 and 102 PREREQUISITE: Admission to the Dental Assisting Program and Permission of Instructor COREQUISITES: DNT 100, DNT 102, DNT 103, DNT 113, PSY 200 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.	3 credits	DNT 111	CLINICAL PRACTICE I (1T, 12C) FORMERLY: DNT 173 PREREQUISITE: Admission to Dental Assisting Program or Permission of Instructor COREQUISITE: DNT 104, DNT 112, DNT 124, MTH 100 or 112 or 116, SPH 107 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.	5 credits

DNT 112	<p>DENTAL RADIOLOGY (2T, 3S) 3 credits FORMERLY: DNT 131 and DNT 132 PREREQUISITE: Admission to Dental Assisting Program or Permission of Instructor COREQUISITE: DNT 104, DNT 111, DNT 124, MTH 100, or 112 or 116, SPH 107</p> <p>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.</p>	DNT 122	<p>CLINICAL PRACTICE II (12C) 4 credits FORMERLY: DNT 174 PREREQUISITE: Admission to Dental Assisting Program and Permission of Instructor COREQUISITE: DNT 121, DNT 123</p> <p>This course is designed to provide the student the opportunity to develop advanced dental assisting skills in chairside dental assisting procedures, radiology, receptionist duties, team work, and communication skills. Emphasis will be placed on clinical procedures. Upon completion, students should be able to demonstrate proficiency in the area of chairside assisting.</p>
DNT 113	<p>DENTAL HEALTH EDUCATION (2T) 2 credits FORMERLY: DNT 146 PREREQUISITE: Admission to Dental Assisting Program and Permission of Instructor COREQUISITE: DNT 100, DNT 101, DNT 102, DNT 103, PSY 200</p> <p>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 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.</p>	DNT 123	<p>DENTAL ASSISTING SEMINAR (4T) 4 credits FORMERLY: DNT 196 COREQUISITE: DNT 121 and DNT 122 PREREQUISITE: Admission to Dental Assisting Program and Permission of Instructor</p> <p>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.</p>
DNT 116	<p>PRECLINICAL PROCEDURES II (2T) 2 credits FORMERLY: DNT 102 PREREQUISITE: DNT 101 Pre-Clinical Procedures I and permission of the instructor COREQUISITE: DNT 111, DNT 112, DNT 113, DNT 124, SPH 107 and MTH elective</p> <p>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.</p>	DNT 124	<p>CLINICALLY APPLIED INFECTION CONTROL AND OSHA STANDARDS (3C) 1 credit PREREQUISITE: DNT 111 or Permission of Instructor COREQUISITE: DNT 104, DNT 111, DNT 112, SPH 107, MTH 100 or 112 or 116</p> <p>This course is designed for the integration of previously acquired knowledge of OSHA Standards and Infection Control in a clinical setting. Emphasis will be placed on clinical application of Infection Control and Compliance of OSHA Standards as it relates to dental chairside assisting. Upon completion, students should be able to demonstrate skills in the area of Infection Control and OSHA Guidelines.</p>
DNT 121	<p>DENTAL OFFICE PROCEDURES (4T) 4 credits FORMERLY: DNT 156 PREREQUISITE: Admission to Dental Assisting Program and Permission of Instructor COREQUISITE: DNT 122, DNT 123</p> <p>This course is designed to address basic dental office procedures including appointment and recall systems, financial records, accounting procedures, insurance claims, filing systems, purchasing and inventory of supplies and equipment, and the utilization of computers to perform business office procedures. Emphasis is placed on the duties of a dental receptionist. Upon completion, students should be able to demonstrate efficiently in practice management.</p>	DNT 134	<p>CLINIC/CO-OP (5 I) 1 credit PREREQUISITE: DNT 122 or Permission of Instructor</p> <p>This course is designed to enable the student who has completed the Certificate program to gain hands-on experience at a work site or by performing job-related activities. Emphasis will be placed on chairside assisting skills. Successful completion of student cognitive, psychomotor or affective domain competencies are required in this course.</p>
		DNT 135	<p>CLINICAL/CO-OP (10 I) 2 credits PREREQUISITE: DNT 122 or Permission of Instructor</p> <p>This course is designed to enable the student who has completed the Certificate Program to gain hands-on experience at a work-site or by performing job-related activities. Successful completion of student cognitive, psychomotor or affective domain competencies are required in this course.</p>

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- DNT 136** **CLINICAL/CO-OP (15 I)** **3 credits**
PREREQUISITE: DNT 122 or Permission of Instructor
 This course is designed to enable the student who has completed the Certificate Program to gain hands-on experience at a work-site or by performing job-related activities. Successful completion of student cognitive, psychomotor or affective domain competencies are required in this course.
- DNT 137** **CLINICAL/CO-OP (20 I)** **4 credits**
PREREQUISITE: DNT 122 or Permission of Instructor
 This course is designed to enable the student who has completed the Certificate Program to gain hands-on experience at a work-site or by performing job-related activities. Successful completion of student cognitive, psychomotor or affective domain competencies are required in this course.
- DNT 139** **DIRECTED STUDIES IN DENTAL ASSISTING (1T)** **1 credit**
PREREQUISITE: Permission of Instructor
 This course is designed to study specific areas of dentistry as chosen by the student and faculty member. Emphasis will be placed on the research and critique of a specific dental topic. Upon completion, students should be able to deliver a written and oral presentation on the chosen topic.
- DNT 140** **DIRECTED STUDIES IN DENTAL ASSISTING (2T)** **2 credits**
PREREQUISITE: Permission of Instructor
 This course is designed to study specific areas of dentistry as chosen by the student and faculty member. Emphasis will be placed on the research and critique of a specific dental topic. Upon completion, students should be able to deliver a written and oral presentation on the chosen topic.
- DNT 141** **DIRECTED STUDIES IN DENTAL ASSISTING (3T)** **3 credits**
PREREQUISITE: Permission of Instructor
 This course is designed to study specific areas of dentistry as chosen by the student and faculty member. Emphasis will be placed on the research and critique of a specific dental topic. Upon completion, students should be able to deliver a written and oral presentation on the chosen topic.
- DNT 296** **SPECIAL TOPICS IN DENTISTRY (1T)** **1 credit**
PREREQUISITE: Permission of Instructor
 This course is designed to address special topics in dentistry according to the criteria approved for continuing education by the code of Alabama. Emphasis is placed on chairside dental assisting, Infection Control/OSHA, treatment of special needs/medically compromised patients, oral pathology basic sciences, dental materials, medical emergencies, and ethics and jurisprudence. Upon completion, the student should be able to discuss the special topic addressed in the symposium as it relates to dentistry.

- DNT 297** **SPECIAL TOPICS IN DENTISTRY (2T)** **2 credits**
PREREQUISITE: Permission of Instructor
 This course is designed to address special topics in dentistry according to the criteria approved for continuing education by the code of Alabama. Emphasis is placed on chairside dental assisting, Infection Control/OSHA, treatment of special needs/medically compromised patients, oral pathology basic sciences, dental materials, medical emergencies, and ethics and jurisprudence. Upon completion, the student should be able to discuss the special topic addressed in the symposium as it relates to dentistry.
- DNT 298** **SPECIAL TOPICS IN DENTISTRY (3T)** **3 credits**
PREREQUISITE: Permission of Instructor
 This course is designed to address special topics in dentistry according to the criteria approved for continuing education by the code of Alabama. Emphasis is placed on chairside dental assisting, Infection Control/OSHA, treatment of special needs/medically compromised patients, oral pathology basic sciences, dental materials, medical emergencies, and ethics and jurisprudence. Upon completion, the student should be able to discuss the special topic addressed in the symposium as it relates to dentistry.

DESIGN DRAFTING TECHNOLOGY (DDT)

- DDT 103** **INTRODUCTION TO COMPUTER AIDED DRAFTING (2T, 3M)** **3 credits**
FORMERLY: DDT 152
PREREQUISITE: DDT 115
 This course provides an introduction to basic Computer-Aided Design and Drafting (CAD) functions and techniques using "hands-on" applications. Topics include terminology, hardware, basic DOS and Windows functions, file manipulation, and basic CAD software applications in producing softcopy and hardcopy. Upon completion, students should be able to identify and select CAD hardware, employ basic DOS and Windows functions, handle basic text and drawing files, and produce acceptable hardcopy on a CAD system.
- DDT 111** **FUNDAMENTALS OF DRAFTING AND DESIGN TECHNOLOGY (1T, 2E, 3M)** **3 credits**
 This course serves as an introduction to the field of drafting and design and provides a foundation for the entire curriculum. Topics include safety, lettering, tools and equipment, geometric constructions, and orthographic sketching. Upon completion, students should develop and use safe work habits, identify and properly use common drafting tools and equipment, construct geometric figures, and sketch basic orthographic views of objects.

DDT 112 INTRODUCTORY TECHNICAL DRAWING (1T, 2E, 3M) 3 credits
PREREQUISITE: DDT 111

This course covers drawing reproduction and orthographic projection and sectioning. Emphasis will be placed on the theory as well as the mechanics of orthographic projection and shape description, the relationship of orthographic planes and views, the views and their space dimensions, the application of the various types of sections, and drawing reproduction. Upon completion, students should have an understanding of orthographic projection and be able to identify orthographic planes, produce orthographic views of objects, and apply the various sectioning techniques and methods and reproduce drawings.

DDT 114 INDUSTRIAL BLUEPRINT READING (3T) 3 credits

This course provides students with basic blueprint reading for various industrial applications. Topics include orthographic projection, dimensions and tolerances, symbols, industrial application, scales and notes. This course may be tailored to meet a specific industry need.

DDT 115 BLUEPRINT READING FOR MACHINISTS (3T) 3 credits
FORMERLY: DDT 151

This course provides the students with terms and definitions, theory of orthographic projection, and other information required to interpret drawings used in the machine trades. Topics include multiview projection, pictorial drawings, dimensions and notes, lines and symbols, and sketching. Upon completion, students should be able to interpret blueprint drawings used in the machine trades.

DDT 116 BLUEPRINT READING FOR CONSTRUCTION (3T) 3 credits
FORMERLY: DDT 150

This course provides the students with terms and definitions, theory of orthographic projection, and other information required to interpret drawings used in the construction trades. Topics include multiview projection, dimensions and notes, lines and symbols, sketching, foundation plans, site plans, elevations, sections, details, schedules, electrical plans and specifications. Upon completion, students should be able to interpret blueprint drawings used in the construction trades.

DDT 119 ADVANCED ELECTRONIC DRAFTING (1T, 2E, 3M) 3 credits
FORMERLY: DDT 229
PREREQUISITE: DDT 122 and DDT 123

This course introduces drafting and design techniques dealing with production of electronic equipment for consumer, commercial, and military applications. Emphasis is placed on schematic drawings, connection or wiring diagrams, industrial electronic diagrams, ladder schematics, flow block diagrams, and documentation types and techniques related to the power delivery industry. Upon completion, students should be able to prepare documentation specified by ANSI standards

DDT 121 INTERMEDIATE TECHNICAL DRAWING (1T, 2E, 3M) 3 credits
PREREQUISITE: DDT 112 and DDT 103

This course is designed to develop a strong foundation in common drafting and design practices and procedures. Topics include auxiliary views, basic space geometry, pictorial drawings, and basic charts and graphs. Upon completion, students should be able to project and develop auxiliary views, locate and specify points, lines, and planes in space, develop axonometric, oblique, and perspective drawings and draw basic charts and graphs.

DDT 122 ADVANCED TECHNICAL DRAWING (1T, 2E, 3M) 3 credits
PREREQUISITE: DDT 112 AND DDT 103

This course covers the methods of providing size description and manufacturing information for production drawings. Emphasis will be placed on accepted dimensioning and tolerancing practices including Geometric Dimensioning and Tolerancing for both the Customary English System and the ISO System. Upon completion, students should be able to apply dimensions, tolerances, and notes to drawings to acceptable standards, including Geometric Dimensioning and Tolerancing, and produce drawings using and specifying common threads and various fasteners, including welding methods.

DDT 123 INTERMEDIATE CAD (2T, 2E, 3M) 4 credits
FORMERLY: DDT 153
PREREQUISITE: DDT 103

This course covers intermediate-level concepts and applications of CAD design and drafting. Emphasis will be placed on intermediate-level features, commands, and applications of CAD software. Upon completion, students should be able to develop and use external references and paper space, apply higher-level block creation techniques and usage, including attributes, and apply basic-level customization techniques to CAD software.

DDT 131 MACHINE DRAFTING BASICS (1T, 2E, 3M) 3 credits
FORMERLY: DDT 228
PREREQUISITE: DDT 122 and DDT 123

This course in machine drafting and design provides instruction in the largest specialty area of drafting in the United States in terms of scope and job opportunities. Emphasis will be placed on the applications of multi-view drawings, including drawing organization and content, title blocks and parts lists, assembly drawings, detail drawings, dimensioning and application of engineering controls in producing industrial-type working drawings. Upon completion, students should be able to organize, layout, and produce industrial-type working drawings, including the application of title blocks, parts lists, assemblies, details, dimensions, and engineering controls.

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- DDT 132 ARCHITECTURAL DRAFTING**
(1T, 2E, 3M) **3 credits**
PREREQUISITE: DDT 122 and DDT 123
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.
- DDT 211 INTERMEDIATE MACHINE DRAFTING**
(1T, 2E, 3M) **3 credits**
PREREQUISITE: DDT 131
This second course in machine drafting and design provides more advanced instruction in the largest specialty area of drafting. Topics include applications of previously developed skills in the organization and development of more complex working drawings, use of vendor catalogs and the Machinery's Handbook for developing specifications, and use of standardized abbreviations in working drawings.
- DDT 212 INTERMEDIATE ARCHITECTURAL DRAFTING** (1T, 2E, 3M) **3 credits**
FORMERLY: DDT 234
PREREQUISITE: DDT 211
This second course in architectural design and drafting continues with more advanced and detailed architectural plans. Topics include floor construction and detailing; foundation, wall, and roof construction and detailing; use of standards manuals; perspective drawings; electrical plans; plumbing plans; and building materials, with emphasis on residential and some light commercial applications. Upon completion, students should be able to draw and specify advanced-level plans including various architectural details.
- DDT 213 CIVIL DRAFTING, PLAT MAPS**
(1T, 2E, 3M) **3 credits**
FORMERLY: DDT 230
PREREQUISITE: DDT 122 AND DDT 123
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.
- DDT 224 STRUCTURAL CONCRETE DRAFTING**
(1T, 2E, 3M) **3 credits**
PREREQUISITE: DDT 122 and DDT 123 (formerly DDT 153)
This course is designed to develop the knowledge and skills necessary to understand the basic components and terminology of pre-cast and poured-in-place concrete structures. Emphasis is placed on pre-cast concrete framing plans, sections, fabrication and connection details, poured-in-place concrete foundations,



floor systems, and bills of material. Upon completion, students should be able to construct engineering and shop drawings of concrete beams, column, floor, roof, and wall framing plans using the A.I.S.C. Manual and incorporating safety practices.

- DDT 225 STRUCTURAL STEEL DRAFTING**
(1T, 2E, 3M) **3 credits**
PREREQUISITE: DDT 122 AND DDT 123
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.
- DDT 235 SPECIALIZED CAD**
(2T, 2E, 3M) **4 credits**
PREREQUISITE: DDT 113 OR PERMISSION OF INSTRUCTOR
This course introduces alternative CAD application software and alternative platforms, and can serve as a means of introducing third party programs that work in conjunction with a specific CAD application. Topics include various Graphical User Interfaces (GUI's) and how to navigate them, as well as how to use a third party application to make working in a specific CAD package easier and more productive. Upon completion, students should be able to use more than one CAD software package to produce hardcopy and use third party software to make certain tasks easier with a specific CAD program.
- DDT 236 DESIGN PROJECT** (1T, 2E, 3M) **3 credits**
PREREQUISITE: DDT 122 and DDT 123
This course is designed for advanced students who aspire to more advanced and specialized skills in one certain drafting area. Emphasis will be placed on the student's ability to apply the principles learned in pre-

vious drafting classes in one special area, as approved by the instructor. The required project, as well as how the work is to be accomplished, must be agreed upon by the instructor and the student. Upon completion, students will further reinforce previously learned concepts by applying engineering principles and controls to a personal design project.

DDT 237 **CURRENT TOPICS IN CAD** **3 credits**
(1T, 2E, 3M)
FORMERLY: DDT 155
PREREQUISITE: DDT 123

This course serves to introduce changing technology and current CAD subjects and software and the computing hardware needed to utilize new products. Topics include current trends in how industries use CAD applications, new developments, improvements and progressions within specific CAD applications as well as the necessary hardware. Upon completion, students should be able to use more updated software in a specific CAD application and be more aware of improvements in CAD software and how to apply advancing technology in improving their CAD proficiency.

DDT 239 **INDEPENDENT STUDIES (2-8E)** **1-4 credits**
PREREQUISITE: DDT 122 and DDT 123

This course provides practical application of prior attained skills and experiences as selected by the instructor for the individual student. Emphasis is placed on applying knowledge from prior courses toward the solution of individual drafting and design problems. With completion of this course, the student will demonstrate the application of previously attained skills and knowledge in the solution of typical drafting applications and problems.

ECONOMICS (ECO)

ECO 130 **CONSUMER ECONOMICS (3T)** **3 credits**
This course explores the application of general economic principles and practices concerning personal consuming, saving, and investing. It also stresses the relationship of sound personal financial management with successful career goals. Topics covered will include: consumerism, income and family financial planning, insurance, and investments.

ECO 231 **PRINCIPLES OF MACROECONOMICS (3T)** **3 credits**
FORMERLY: Principles of Economics I
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
FORMERLY: Principles of Economics II
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.

EDUCATION

EDU 100 **EXPLORING TEACHING AS A PROFESSION (1T, 2E)** **2 credits**
This course provides students with an opportunity to explore teaching as a career. The role of the teacher, the benefits of teaching, and the steps to becoming a teacher are some of the topics that will be explored. Students will be exposed to examples of good teaching and self-assess their personal and professional qualities.

ELECTRONIC ENGINEERING TECHNOLOGY (EET)

EET 101 **DC THEORY (3T)** **3 credits**
COREQUISITE: MTH 112
An introduction to DC Circuit analysis. Topics include voltage, current and power in series, parallel, series-parallel and bridge circuits, node and mesh circuits, superposition and Thevenin's theorems, inductors, capacitors, R-L, R-C time constants. Upon completion of this course and EET 102, students should be able to calculate all parameters in DC circuitry, construct equivalent circuits, and describe circuit behavior.

EET 102 **DC LAB (1T, 3M)** **2 credits**
FORMERLY: EET 101
COREQUISITE: EET 101
Companion to EET 101. Topics include circuit construction, measurements of voltage, current, relative voltages, component identification, DC meters, schematic reading, circuit construction, and parameter measurements. Upon completion of this course and EET 101 students should be able to calculate all parameters in DC circuitry, construct equivalent circuits and describe circuit behavior.

EET 120 **ELECTRONICS FABRICATION (3M)** **1 credit**
FORMERLY: EET 142
PREREQUISITE: EET 102
An introduction to device construction and fabrication. Topics include soldering, cable construction, printed circuit boards, coaxial cable connection and termination, component mounting, cases, and chassis. Upon completion of this course, students should be able to perform basic circuit and project construction.

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EET 151	AC THEORY (3T) FORMERLY: EET 102 PREREQUISITE: EET 101, MTH 112 COREQUISITE: MTH 113 An introduction to AC circuit analysis. Topics include AC waveforms: amplitude, phase, frequency and period reactance, phasors; filters; R-L and R-C; resonance; AC circuit analysis; power factors, delta circuits, WYE circuits; rectifier circuits; and power supplies. Upon completion of this course and EET 152, students should be able to calculate all parameters in AC circuits, describe circuit behavior and use AC instruments.	3 credits	EET 201	ELECTRONIC CIRCUITS (3T) FORMERLY: EET 141 PREREQUISITE: EET 161 An introduction to analog electronic circuits. Topics include operational amplifiers, active filters, phase-lock loops, use and component selection/design for specific circuit behavior, circuit use, and circuits as part of systems. Upon completion of this course and EET 202, a student should be able to choose circuitry to perform specific functions and design for specific behavior as part of a system.	3 credits
EET 152	AC LABORATORY (1T,3M) FORMERLY: EET 102 PREREQUISITE: EET 101, EET 102 COREQUISITE: EET 151 Companion to EET 151. Topics include use of oscilloscopes, function generators, frequency counters, circuit construction, measurements, use of circuits. Upon completion of this course and EET 151, a student will be able to construct circuitry and perform all necessary act measurements.	2 credits	EET 202	ELECTRONIC CIRCUITS LABORATORY (3M) FORMERLY: EET 141 PREREQUISITE: EET 161, 162 COREQUISITE: EET 201 Companion to EET 201. Topics include behavior and use of circuitry using Op-Amps, PLL's, other IC components/circuits; emphasis is placed on construction testing and understanding of circuits. Upon completion of this course and EET 201, students should be able to describe circuits taught, evaluate behavior of circuits, and describe circuit use.	1 credit
EET 161	SOLID STATE THEORY (3T) FORMERLY: EET 131 PREREQUISITE: EET 151, and EET 152 An introduction to solid-state devices and circuits. Topics include solid-state devices: diodes, transistors, FETS, SCR's, TRIACS, LED's, UITs, and the basic circuits that use these devices: amplifiers, power control and switching circuits. Upon completion of this course and EET 162, students should be able to describe the operation of various devices and the circuits using these devices and calculate all parameters.	3 credits	EET 210	DIGITAL BASICS (3T) FORMERLY: EET 211 PREREQUISITE: EET 161 and EET 162 This course is an introduction to digital logic and circuits. Topics include Boolean Algebra, basic logic gates, and characteristics of simple TTL, IC's, shift registers and flip-flops. Upon completion of this course and EET 211, students should be able to construct a circuit from boolean expression, and alter a circuit design for use with a particular type of gate.	3 credits
EET 162	SOLID STATE LABORATORY (3M) FORMERLY: EET 131 PREREQUISITE: EET 151, EET 152 COREQUISITE: EET 161 Companion to EET 161. Topics include circuit operation and measurements using various solid-state devices. Upon completion of this course and EET 161, students should be able to construct circuits using various solid-state devices to amplify signals, control power, perform switching operations, etc.	1 credit	EET 211	DIGITAL BASICS LABORATORY (3M) PREREQUISITE: EET 161 and EET 162 COREQUISITE: EET 210 Companion to EET 210. Topics include logic gates, circuit construction, and measurements of states, counters, timers, Divide-By-N circuits and shift-registers. Upon completion of this course and EET 210, a student should be able to describe operation of circuitry, construct and demonstrate operation of circuits.	1 credit
EET 186	MICROPROCESSOR BASICS (3T) FORMERLY: EET 212 PREREQUISITE: EET 210 An introduction to the organization and interconnection of microprocessor system components. Topics include machine architecture, arithmetic logic, data handling operations, bus concepts, interrupt concepts, subroutines, stack operations, and elementary programming. Upon completion of this course, a student will be able to program a simple microprocessor system.	3 credits	EET 213	INSTRUMENTATION (3T) FORMERLY: Industrial Electronics PREREQUISITE: EET 201 and EET 202 This course provides introduction to the field of process control and instrumentation. Topics covered include sensors, transducers, signal conditioning, control devices, an introduction to ladder logic, and PLC's. Upon completion of this course and EET 238 a student will be able to analyze a simple industrial process control system.	3 credits

EET 214	VIDEO DISPLAY SYSTEMS (4E) 2 credits FORMERLY: EET 240 (Television Systems) PREREQUISITE: EET 201 and EET 202 and EET 230 and EET 231 This course covers circuit analysis, troubleshooting and repair techniques on display systems such as computer monitors and television receivers. Students will be given hands-on experience in the laboratory. Upon completion of this course a student will be able to analyze, troubleshoot, and repair a video display.	EET 240	COMMUNICATIONS ADVANCED (3T) 3 credits PREREQUISITES: EET 230 and EET 231 A continuation of EET 230. Topics include transmission lines, antennas, microwave systems, radar, and FDM. Upon completion of this course and EET 241 a student will be able to describe and analyze transmission lines, antennas, microwave systems, radar, and FDM.
EET 220	DIGITAL ADVANCED (3T) 3 credits FORMERLY: EET 215 (Digital Logic Design) PREREQUISITE: EET 210 and EET 211 A continuation of EET 210. Topics include memory, circuits, sum-of-products, Karnaugh maps, and gate arrays. Upon completion of this course and EET 221, a student will be able to construct, evaluate, troubleshoot, repair and demonstrate the operation of a logic design.	EET 241	COMMUNICATIONS ADVANCED LABORATORY (3M) 1 credit PREREQUISITE: EET 230 and EET 231 COREQUISITE: EET 240 Companion to EET 240 and a continuation of EET 231. Topics include wave guides, antennas, coaxial cables, klystrons, and radar. Upon completion of this course and EET 240 a student will be able to describe and analyze transmission lines, antennas, microwave systems, radar, and FDM.
EET 221	DIGITAL ADVANCED LABORATORY (3M) 1 credit FORMERLY: EET 215 (Digital Logic Design) PREREQUISITE: EET 210 and EET 211 COREQUISITE: EET 220 Companion to EET 220 and a continuation of EET 211. Topics include RAM, ROM, and addressing circuitry and gate arrays. Upon completion of this course and EET 220, a student will be able to construct, evaluate, troubleshoot, repair, and demonstrate the operation of a logic design.	EET 250	MICROPROCESSORS INTERMEDIATE (3T) 3 credits FORMERLY: EET 212 PREREQUISITE: EET 186 COREQUISITE: EET 220 and EET 221 An introduction to microprocessor systems. Topics include microprocessor software model, programming in machine language, I/O, basic circuitry (PS, RAM, ROM, logic interrupts) and DMA. Upon completion of this course and EET 251 a student will be able to describe and program a simple microprocessor systems.
EET 230	COMMUNICATION BASICS (3T) 3 credits FORMERLY: EET 222 (Communication Circuits) PREREQUISITE: EET 201 and EET 202 An introduction to electronic communication. Topics include AM and FM modulation and demodulation, RF amplifiers, mixers, heterodyning and frequency shifting and oscillators. Upon completion of this course and EET 231 students should be able to describe, operate, and troubleshoot basic communication circuits.	EET 251	MICROPROCESSORS INTERMEDIATE LABORATORY (3M) 1 credit FORMERLY: EET 212 COREQUISITE: EET 220, EET 221, and EET 250 Companion to EET 250. Topics include cycle-by-cycle programming, MPU addressing, READ/WRITE, interrupts, and MPU circuitry. Upon completion of this course and EET 250 a student will be able to describe and program microprocessor systems.
EET 231	COMMUNICATION BASICS LABORATORY (3M) 1 credit FORMERLY: EET 222 (Communication Circuits) PREREQUISITE: EET 201 and EET 202 COREQUISITE: EET 230 Companion to EET 230. Topics include RF amplifiers, oscillators, mixers, AM and FM modulation and demodulation. Upon completion of this course and EET 230 a student will be able to describe, operate, and troubleshoot basic communication circuits.	EET 252	ELECTRONIC SERVICE LAB (2E) 1 credit FORMERLY: EET 205 PREREQUISITE: EET 201, 202 and 120 An introduction to product service technique. Emphasis is placed on the repair, calibration, and operation of a wide variety of test equipment, instruments and systems. Upon completion of this course a student will be able to repair an actual electronic device.
EET 238	INSTRUMENTATION LAB (4E) 2 credits FORMERLY: EET 213 (Industrial Electronics) COREQUISITE: EET 213 Companion to EET 213. Emphasizes hands-on experience for the student using transducers and sensors as well as control of processes. Upon completion of this course and EET 213 a student will be able to analyze a	EET 260	MICROPROCESSORS INTERFACING (3T) 3 credits FORMERLY: EET 242 (Microcomputer Systems Fundamentals) PREREQUISITE: EET 250 and EET 251 A continuation of EET 250. Emphasis is placed on

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	interfacing microprocessor systems. Upon completion of this course and EET 261 a student will be able to interface a microprocessor.		
EET 261	MICROPROCESSORS INTERFACING LABORATORY (3M) 1 credit FORMERLY: EET 242 (Microcomputer Systems Fundamentals) COREQUISITE: EET 260 PREREQUISITE: EET 250 and EET 251 Companion to EET 260 and a continuation of EET 251. Emphasis is placed on interfacing microprocessor systems. Upon completion of this course and EET 260 a student will be able to interface a microprocessor.		
EET 270	FIBER OPTICS (3T) 3 credits FORMERLY: EET 245 (Fiber Optics Systems) PREREQUISITE: EET 230, 231, 210 and 211/Physics II An introduction to fiber optic systems. Topics include optics, fiber characteristics, light sources, detectors, splices, lasers, LED's, photodiodes, and phototransistors. Upon completion of this course and EET 271 a student will be able to describe and characterize a fiber optic system.		
EET 271	FIBER OPTICS LABORATORY (3M) 1 credit FORMERLY: EET 245 (Fiber Optic Systems) COREQUISITE: EET 270 Companion to EET 270. Topics include fibers, splices, losses, emitters and detectors. Upon completion of this course and EET 270, a student will be able to describe and characterize a fiber optic system.		
EET 286	MICROCOMPUTERS REPAIR (2T, 2E) 3 credits FORMERLY: EET 244 (Microcomputer Peripheral Repair) COREQUISITE: EET 260 and 261 An introduction to microcomputer repair. Topics include microcomputer architecture, clocks, microprocessors, BUS lines, memory maps, input/output boards, monitors, disk drives, and power supplies. Upon completion of this course a student will be able to locate and replace a defective microcomputer circuit board or device.		
EET 287	TELECOMMUNICATIONS BASICS (2T, 2E) 3 credits FORMERLY: EET 247 (Telecommunications) PREREQUISITE: EET 201 and EET 202 An introduction to telecommunications technology. Topics include noise, modulation, and television. Upon completion of this course a student will be able to calculate noise voltage, calculate noise figure, describe the various types of modulation, and describe the operation of a television receiver.		
EET 289		TELECOMMUNICATIONS ADVANCED (2T, 2E) 3 credits FORMERLY: EET 247 PREREQUISITE: EET 287 or EET 230 and EET 231 A continuation of EET 287. Topics include communication techniques, digital communications, transmission lines, wave propagation, antennas, and wave guides. Upon completion of this course a student will be able to describe the various types of communications, describe various types of digital communication, solve for a single transmission variable, describe the various types of wave propagation, describe the various types of antenna, and describe the various types of wave guide.	
EET 290		ELECTRONICS PROJECT (2-6E) 1-3 credit FORMERLY: EET 214 (Sophomore Seminar) PREREQUISITE: Permission of Instructor This course integrates skills and knowledge from other courses. Upon course completion, a student will be able to design, fabricate, analyze, program, and/or operate an electronic system under faculty supervision. Emphasis will be placed on skills identified by the instructor.	
ELECTRICAL TECHNOLOGY (ELT)			
ELT 101		DC PRINCIPLES OF ELECTRICITY (2T, 3M) 3 credits FORMERLY: ELT 111 PREREQUISITE: MTH 098 or Permission of Instructor This course is a study of basic atomic structure, electron flow, Ohm's Law, electrical power and conductors and insulators. Topics include atomic theory, series and parallel circuits, complex circuits, magnetism and electromagnetism. Upon completion, students should be able to solve DC electrical quantity problems and use voltmeters, ohm meters, and amp meter.	
ELT 102		AC PRINCIPLES OF ELECTRICITY (2T, 3M) 3 credits FORMERLY: ELT 121 PREREQUISITE: ELT 101, MTH 098 or Permission of Instructor This course is a study of alternating current and its measurements, circuit analysis, resistive, inductive and capacitive circuits, vectors, AC power and AC test equipment. Emphasis is placed on sinewave generation and valves, circuit construction and analysis and test equipment. Upon completion, students should be able to construct AC circuits and use AC test equipment.	
ELT 105		DC AND AC ELECTRICITY (4T, 6M) 6 credits PREREQUISITE: MTH 098 or Permission of Instructor This course is a study of basic atomic structure, electron flow, Ohm's Law, electrical power, conductors and insulators, alternating current and its measure-	

	ments, circuit analysis, resistive, inductive and capacitive circuits, vectors, AC power and AC test equipment. Topics include atomic theory, series and parallel circuits, complex circuits, magnetism and electromagnetism, sinewave generation and valves, and circuit construction and analysis. Upon completion, students should be able to solve DC electrical quantity problems, use voltmeters, ohm meters and amp meters, and be able to construct AC circuits and use AC test equipment.		
ELT 111	RESIDENTIAL WIRING METHODS I (2T, 3M) 3 credits FORMERLY: ELT 132 PREREQUISITE: MTH 098, ELT 102 or Permission of Instructor This course introduces the student to residential wiring practices and methods, use of hand and power tools, electrical safety, the NEC requirements and residential blueprint interpretations. Topics include standard residential wiring procedures and practices, grounding NEC requirements, wiring diagrams and wiring layouts. Upon completion, students should be able to read blueprints, understand code requirements, and wire lights and switches.		
ELT 112	ADVANCED RESIDENTIAL WIRING METHODS (2T, 3M) 3 credits FORMERLY: ELT 132 PREREQUISITE: ELT 111, MTH 098, ELT 101, ELT 102 COREQUISITES: ELT 111, ELT 102 or Permission of Instructor This course provides the student with information on how to interpret electrical residential blueprints, wiring diagrams, layouts and will teach them to wire many different residential circuits in accordance with the National Electric Code. Emphasis is placed on applying the National Electric Code, actual wiring of panels, service and branch circuits. Upon completion, students should be able to interpret and wire most aspects of a residential application to code.		
ELT 113	RESIDENTIAL WIRING (4T, 6M) 6 credits PREREQUISITE: ELT 105 or Permission of Instructor This course is a study of residential wiring practices and methods and introduces the student to the use of hand and power tools, electrical safety, the NEC requirements, and how to interpret electrical residential blueprints, wiring diagrams, and layouts. Students will also learn to wire many different residential circuits in accordance with the National Electric Code. Topics include standard residential wiring procedures and practices, grounding NEC requirements, wiring diagrams and wiring layouts. Emphasis will also be placed on applying the National Electric Code, actual wiring of panels, service and branch circuits. Upon completion, students should be able to read blueprints, understand code requirements, wire lights and switches, and be able to interpret and wire most aspects of a residential application to code.		
ELT 120		MOTORS (4T, 6M) 6 credits PREREQUISITE: ELT 105 or Permission of Instructor This course covers the theory and operation of single and three phase AC and DC motors. Emphasis is placed on the various types of single and three phase motors, wiring diagrams, starting devices, field wiring, troubleshooting AC and DC motors and using test equipment. Upon completion, students should be able to explain, wire and troubleshoot most all types of AC and DC motors.	
ELT 121		BASIC AC/DC MACHINES (2T, 3M) 3 credits FORMERLY: ELT 130 PREREQUISITE: ELT 101, ELT 102, MTH 098 COREQUISITE: ELT 102 or Permission of Instructor This course covers the theory and operation of 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 the lab. Upon completion, students should be able to explain, wire and troubleshoot most single and three phase AC motors.	
ELT 122		ADVANCED AC AND DC MACHINES (2T, 3M) 3 credits FORMERLY: ELT 130 PREREQUISITE: MTH 098, ELT 121 or Permission of Instructor This course focuses on single and three-phase motors and introduces students to DC motors. Emphasis is placed on field wiring, various types of AC and DC motors, troubleshooting AC and DC motors and using test instruments. Upon completion, students should be able to explain, wire, troubleshoot and test most all types of AC and DC electric motors.	
ELT 131		COMMERCIAL/INDUSTRIAL WIRING I (2T, 3M) 3 credits PREREQUISITE: MTH 098, ELT 102 or Permission of Instructor This course teaches the student the principles and applications of commercial and industrial wiring. Emphasis is placed on blueprint symbols, hand and power tools, electrical safety, calculations and the NEC code requirements as applied to commercial and industrial wiring. Upon completion, students should be able to read electrical plans, understand electrical symbols, calculate electrical loads for commercial industrial applications and interpret the NEC code requirements.	
ELT 132		COMMERCIAL/INDUSTRIAL WIRING II (2T, 3M) 3 credits FORMERLY: ELT 131 PREREQUISITE: MTH 098, ELT 131 or Permission of Instructor This course is a continuation of ELT 131 and includes the study of branch circuits, installation requirements for services, feeders and special equipment considerations including the NEC code requirements. Emphasis is placed on load calculations, conductors, service siz-	

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	ing, installation requirements, NEC code requirements, transformers, lighting, HVAC and special equipment considerations. Upon completion, students should be able to size complete electrical commercial/industrial systems and understand the NEC requirements for each system.		
ELT 133	COMMERCIAL/INDUSTRIAL WIRING (4T, 6M) 6 credits PREREQUISITE: ELT 105 or Permission of Instructor This course teaches the students the principles and applications of commercial and industrial wiring, including the study of branch circuits, installation requirements for services, feeders and special equipment considerations including the NEC requirements. Emphasis is placed on blueprint symbols, hand and power tools, electrical safety, calculations, NEC code requirements, load calculations, conductors, service sizing, installation requirements, transformers, lighting, HVAC and special equipment consideration. Upon completion, students should be able to read electrical symbols, calculate electrical loads for commercial industrial applications and interpret the NEC code requirements.		
ELT 206	OSHA SAFETY STANDARDS (3T) 3 credits This course focuses on OSHA safety standards related to the job site. Emphasis is placed on overall safety practices, construction site safety practices and safety procedures required by federal and state laws. Upon completion, students should be able to apply OSHA safety standards.		
ELT 210	MOTOR CONTROLS (4T, 6M) 6 credits PREREQUISITE: ELT 105 or Permission of Instructor 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 electronic 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 211	MOTOR CONTROLS I (2T, 3M) 3 credits FORMERLY: ELT 201 PREREQUISITE: ELT 102 or Permission of Instructor This course introduces the use of motor control symbols, magnetic motor starters, running overload protection, push-button stations and sizing of magnetic motor starters and overload protection. Topics include sizing magnetic starters and overload protection and the use of push-button stations, ladder diagrams and magnetic motor starters in control of electric motors. Upon completion, students should be		able to understand the operation of magnetic motor starters, overload protection and interpret ladder diagrams using push-button stations.
ELT 212		MOTOR CONTROLS II (2T, 3M) 3 credits FORMERLY: ELT 202 PREREQUISITE: ELT 211 or Permission of Instructor 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 214		HYDRAULICS (2T, 3M) 3 credits FORMERLY: INT 101 This course is the study of fluid power systems including the theory and function of devices that pressurize, direct, and control fluid power systems. Lab will reinforce the principles and characteristics of hydraulic systems. Emphasis is placed on setting up and operating hydraulic trainers in the correct manner with the aid of hydraulic prints. Upon completion, students should be able to explain and operate a typical hydraulic system.	
ELT 215		PNEUMATICS (2T, 3M) 3 credits FORMERLY: INT 102 This course is the study of compressed air power systems and the theory and function of devices that pressurize, direct and control air systems. Labs will reinforce the principles and characteristics of pneumatic systems. Emphasis is placed on setting up and operating pneumatic trainers in the correct manner with the aid of pneumatic prints. Upon completion, students should be able to explain and operate a typical pneumatic system.	
ELT 218		HYDRAULICS AND PNEUMATICS (4T, 6M) 6 credits This course is the study of fluid power systems including the theory and function of devices that pressurize, direct and control fluid power systems and a study of compressed air power systems and the theory and function of devices that pressurize, direct and control air systems. Emphasis is placed on setting up and operating hydraulic and pneumatic trainers in the correct manner with the aid of hydraulic and pneumatic prints. Upon completion, students should be able to explain and operate a typical hydraulic and pneumatic system.	
ELT 221		ELECTRONICS FOR ELECTRICIANS I (2T, 3M) 3 credits FORMERLY: ELT 221 PREREQUISITE: ELT 102 or Permission of Instructor This course introduces students to the basic principles of solid state electronic equipment as found in many electrical and motor control circuits. Emphasis is placed on fundamental concepts of diodes, transistors, FET's and MOSFETs as they are used in electrical control circuits. Upon completion, students should	

	understand the basic operation of solid state components and be able to perform basic troubleshooting tasks.		
ELT 230	PROGRAMMABLE CONTROLS (4T, 6M) 6 credits PREREQUISITE: ELT 105 or Permission of Instructor This state-of-the-art course includes the fundamental principles of programmable logic controls (PLCs) including hardware, programming and program design. Emphasis is placed on hardwiring associated with PLC, different options available with most PLCs, basic ladder logic programming, developing working programs, timers, counters, different special functions, and designing programs from existing hardwired systems. Upon completion, students should be able to develop programs, load programs into PLCs and troubleshoot the system.		
ELT 231	PROGRAMMABLE CONTROLS I (2T, 3M) 3 credits FORMERLY: ELT 222 PREREQUISITE: ELT 102 or Permission of Instructor This state-of-the-art course includes the fundamental principles of programmable logic controls (PLCs) including hardware and programming. Emphasis is placed on hardwiring associated with PLC, different options available with most PLCs and basic ladder logic programming. Upon completion, students should be able to develop programs, load programs into PLCs and troubleshoot the system.		
ELT 232	PROGRAMMABLE CONTROLS II (2T, 3M) 3 credits FORMERLY: ELT 262 PREREQUISITE: ELT 231 or Permission of Instructor This state-of-the-art course focuses on PLC hardware, programming and program design. Emphasis is placed on developing working programs, timers, counters, different special functions, and designing programs from existing hardwired systems. Upon completion, students should be able to develop programs, load programs into PLCs and troubleshoot the system.		
ELT 241	NATIONAL ELECTRIC CODE (3T) 3 credits FORMERLY: ELT 135 PREREQUISITE: ELT 102 or Permission of Instructor 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.		
		EMS 100	CARDIOPULMONARY RESUSCITATION I (1T) 1 credit 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 or program approval 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 105	FIRST RESPONDER (3T) 3 credits This course provides theory in emergency procedures as contained in the current National Standard Training Curriculum (NSTC) for the First Responder. The course is an introduction to the emergency medical services system and provides fundamentals for students to improve the quality of emergency care provided as the first person to an emergency scene until emergency medical services arrive. Completion of specific student competencies, as outlined in the current NSTC for the First Responder, are required for successful course completion.
		EMS 106	MEDICAL TERMINOLOGY FOR HEALTH PROFESSIONS (2T) 2 credits 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 and program approval The Emergency Vehicle Operator Course-Ambulance

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	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 108	DIRECTED STUDIES IN EMS I (1T) 1 credit This course offers independent study or computer assisted instruction under faculty supervision and/or theory in an EMS subject relevant to the student's interest and need. Specific cognitive competencies required by the student are defined in writing at the first class period.	
EMS 109	DIRECTED STUDIES IN EMS II (1T) 1 credit This course offers independent study or computer assisted instruction under faculty supervision and/or theory in an EMS subject relevant to the student's interest and need. Specific cognitive competencies required by the student are defined in writing at the first class period.	
EMS 113	INFECTION CONTROL FOR HEALTH PROFESSIONS (1T) 1 credit This course is designed for students planning to enter a health-related field of study or public service occupations. The course focuses on the sources of communicable diseases and describes methods for prevention of transmission of bloodborne and airborne pathogens. Topics include prevention; universal precautions (body-substance isolation) and asepsis; immunization; exposure control; disposal; labeling; transmission; exposure determination; post-exposure reporting; and an exposure control plan. The course is taught following current guidelines set forth by the Occupational Safety and Health Administration (OSHA). Upon course completion, students should be able to participate in the clinical setting, identify potential sources of bloodborne and airborne pathogens, and use appropriate universal precautions.	
EMS 115	SPECIAL SKILLS FOR HEALTH RELATED PROFESSIONS (1T) 1 credit PREREQUISITE: Students enrolled in a health related professions program or program approval This course is designed for students enrolled in a health related professions program. The course provides students with concepts related to peripheral venous anatomy and venipuncture techniques. Upon course completion, students should be able to identify veins of the extremities and perform basic venipuncture techniques of the upper extremities.	
EMS 120	VEHICLE EXTRICATION (2T) 2 credits FORMERLY: EMS 200 PREREQUISITE: Program Approval This course provides students with theory in the development of concepts related to the removal of persons from damaged vehicles. Topics include gaining access, stabilization, packaging, patient removal, and basic hazardous situations. Upon course completion, students should be able to effectively extricate a person from a wrecked vehicle.	
EMS 140	EMT PREPARATORY AND PREHOSPITAL EMS OPERATIONS (1T, 2E) 2 credits PREREQUISITE: Admission to the Basic EMT program This course is one of four courses (EMS 140, 141, 142, 143) required for successful completion of the EMT-Basic Program according to the current National Standard Curriculum for the EMT-Basic. Content areas include introduction to emergency medical care; the well-being of the EMT-Basic; medical/legal and ethical issues; the human body; baseline vitals and SAMPLE history; lifting and moving; airway management; ambulance operations; gaining access; an overview of hazardous materials, incident management systems, mass casualty situations, and triage; and state and local EMS rules and regulations. Computer use in simulated scenarios is also included in the course. Successful completion of student cognitive, psychomotor, and affective domain competencies are required in this course.	
EMS 141	EMT PATIENT ASSESSMENT & TRAUMA RELATED INJURIES (2T, 2E) 3 credits PREREQUISITE: Admission to the Basic EMT Program This course is one of four courses (EMS 140, 141, 142, 143) required for successful completion of the EMT-Basic Program according to the current National Standard Curriculum for the EMT-Basic. Content areas include scene size-up; initial assessment; focused history and physical exam; medical and trauma; detailed physical exam; on-going assessment; communications; documentation; bleeding and shock; soft tissue injuries; musculoskeletal care; and injuries to the head and spine. Computer use in simulated scenarios is also included in the course. Successful completion of student cognitive, psychomotor, and affective domain competencies are required in this course.	

EMS 142 EMT MEDICAL EMERGENCIES AND PEDIATRIC CARE (2T, 2E) 3 credits
PREREQUISITE: Admission to the EMT-Basic Program

This course is one of four courses (EMS 140, 141, 142, 143) required for successful completion of the EMT-Basic Program according to the current National Standard Curriculum for the EMT-Basic. Content areas include general pharmacology; respiratory emergencies; cardiovascular emergencies; diabetic emergencies (including the use of a digital glucometer)/altered mental status; allergic reactions; poisoning/overdose emergencies; environmental emergencies; behavioral emergencies; obstetrics; and infants/children. Computer use in simulated scenarios will also be included in the course. Successful completion of student cognitive, psychomotor, and affective domain competencies are required in this course.

EMS 143 EMT BASIC CLINICAL COMPETENCIES (3P3) 1 credit
PREREQUISITE: Admission to EMT-Basic Program

This course is one of four courses (EMS 140, 141, 142, 143) required for successful completion of the EMT-Basic Program according to the current National Standard Curriculum for the EMT-Basic. It provides students with clinical education experiences to enhance knowledge and skills learned in the EMT-Basic Program. Successful completion of student cognitive, psychomotor, and affective domain competencies are required in this course.

EMS 145 EMERGENCY DEPARTMENT PRECEPTORSHIP (1T, 3P3) 2 credits
PREREQUISITE: Admission to the EMT-Basic level of training or current Alabama licensure as an EMT-Basic

This course provides students with clinical experiences in the emergency department to enhance knowledge and skills learned in the EMT-Basic training. Specific skills objectives, including patient assessment and management, are evaluated and students are required to complete patient care summaries and other written work. This course is optional for completing requirements for the EMT-Basic level of training.

EMS 150 EMT-BASIC REFRESHER (2T) 2 credits
PREREQUISITE: Completion of a NSTC course for EMT-Basic or program approval

This course provides students with theory in review of the current National Standard Training Curriculum (NSTC) for the EMT-Basic. 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 NSTC. Students are required to complete specific competencies, as outlined by the NSTC, for successful course completion.

EMS 152 DEFIBRILLATION (1T) 1 credit
PREREQUISITE: Current Alabama licensure as a EMT-Basic or program approval

EMS 153 EMS DISPATCHER (3T) 3 credits
PREREQUISITE: Program Approval

This course provides students with theory as contained in the National Standard Training Curriculum (NSTC) for EMS Dispatcher. This course is designed to prepare EMS dispatcher personnel to operate a telecommunication base station for the purpose of receiving requests for emergency medical services and allocating community resources in response to such requests. Upon course completion, students should have an understanding of emergency medical services dispatch procedures and be able to receive a call and dispatch appropriate personnel, utilizing a scenario in a simulated situation.

EMS 180 PRE-HOSPITAL OPERATIONS FOR ADVANCED EMS PROVIDERS (2T, 2E) 3 credits
PREREQUISITE: Admission to the EMT-Intermediate Program

This is one of eight courses (EMS 180, 181, 182, 183, 184, 185, 267, 269) required for successful completion of EMT-Intermediate in the State of Alabama. The course is taught in accordance with the current National Standard Curricula for the EMT-Intermediate, Paramedic, and requirements set forth by the Alabama Department of Public Health. Content areas include the following as related to the EMT-Intermediate and Paramedic; EMS operations/systems/roles and responsibilities; current Alabama EMS rules and regulations; the well-being of the advanced EMS provider; illness and injury prevention; medical/legal considerations and ethics; EMS and therapeutic communications; medical terminology, and patient assessment. Successful completion of student cognitive, psychomotor, and affective domain competencies are required in this course.

EMS 181 PREPARATORY MANAGEMENT FOR ADVANCED EMS PROVIDERS (2T, 2E) 3 credits
PREREQUISITE: Admission to the EMT-Intermediate Program

This is one of eight courses (EMS 180, 181, 182, 183, 184, 185, 267, 269) required for successful completion of EMT-Intermediate in the State of Alabama. The course is taught in accordance with the current National Standard Curricula for the EMT-Intermediate, Paramedic, and requirements set forth by the Alabama Department of Public Health. Content areas include the following as related to the EMT-Intermediate and Paramedic: the respiratory system; airway and ventilation control; and physiology, assessment and management of shock (to include intravenous/intraosseous

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	techniques and the use of Dextrose 50% in water). Successful completion of student cognitive, psychomotor, and affective domain competencies are required in this course.		
EMS 182	CV ELECTROPHYSIOLOGY AND MANAGEMENT (2T, 2E) 3 credits PREREQUISITE: Admission to the EMT-Intermediate Program Cardiovascular Electrophysiology and Management is one of eight courses (EMS 180, 181, 182, 183, 184, 185, 267, 269) required for successful completion of EMT-Intermediate in the State of Alabama. The course is taught in accordance with the current National Standard Curricula for the EMT-Intermediate, Paramedic, and requirements set forth by the Alabama Department of Public Health. Content areas include the following as related to the EMT-Intermediate and Paramedic: anatomy, physiology, and electrophysiology of the cardiovascular system; interpretation of lead II electrocardiograms; prehospital 12-lead EKG monitoring; and techniques of management for dysrhythmias. Successful completion of student cognitive, psychomotor, and affective domain competencies are required in this course.	EMS 185	EMS ADVANCED LIFE SUPPORT FIELD PRECEPTORSHIP - I (1T, 6P3) 3 credits PREREQUISITE: Admission to the EMT-Intermediate Program This is one of eight courses (EMS 180, 181, 182, 183, 184, 185, 267, 269) required for successful completion of EMT-Intermediate in the State of Alabama. The course is taught in accordance with the current National Standard Curricula for the EMT-Intermediate, Paramedic, and requirements set forth by the Alabama Department of Public Health. The course provides students with opportunities to participate in field experiences in the prehospital area with advanced life support EMS units. Students validate competencies under the direction of a field preceptor and begin the process of providing leadership in patient care and management. Students will have opportunities to participate in review and discussion of patient care reports and begin the development of clinical decision making. Successful completion of student cognitive, psychomotor, and affective domain competencies are required in this course.
EMS 183	EMS ADVANCED PSYCHOMOTOR COMPETENCIES I (1T, 2E) 2 credits PREREQUISITE: Admission to the EMT-Intermediate Program This is one of eight courses (EMS 180, 181, 182, 183, 184, 185, 267, 269) required for successful completion of EMT-Intermediate in the State of Alabama. The course is taught in accordance with the current National Standard Curricula for the EMT-Intermediate, Paramedic, and requirements set forth by the Alabama Department of Public Health. Students validate knowledge and review and validate performance of psychomotor competencies as well as prehospital treatment protocols utilized in Alabama's EMS system. Computer use in simulated scenarios is also included in the course. Successful completion of student cognitive, psychomotor, and affective domain competencies are required in this course.	EMS 190	EMT – INTERMEDIATE REFRESHER (2T) 2 credits PREREQUISITE: Completion of a NSTC course for the EMT-Intermediate. This course provides students with a review of material contained in the National Standard Training Curriculum (NSTC) for the EMT-Intermediate. 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 NSTC and the Alabama Department of Public Health. Students are required to complete specific competencies according to the NSTC for successful course completion.
EMS 184	EMS ADVANCED CLINICAL COMPETENCIES - I (1T, 9P3) 4 credits PREREQUISITE: Admission to the EMT-Intermediate Program This is one of eight courses (EMS 180, 181, 182, 183, 184, 185, 267, 269) required for successful completion of EMT-Intermediate in the State of Alabama. The course is taught in accordance with the current National Standard Curricula for the EMT-Intermediate, Paramedic, and requirements set forth by the Alabama Department of Public Health. The course provides students with opportunities to participate in clinical experiences in various areas of the hospital as well as completion of patient assessments and patient management discussions. Successful completion of student cognitive, psychomotor, and affective domain competencies are required in this course.	EMS 265	PARAMEDIC REFRESHER (3T) 3 credits PREREQUISITE: Completion of a NSTC course for the Paramedic or program approval This course provides students with a review of material contained in the current National Standard Training Curriculum (NSTC) for the Paramedic. 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 NSTC. Students are required to complete specific competencies for successful course completion.
		EMS 266	ADVANCED CV LIFE SUPPORT PROVIDER (1T) 1 credit PREREQUISITE: Program Approval 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	BASIC TRAUMA LIFE SUPPORT PROVIDER (1T) 1 credit PREREQUISITE: LPN, RN, Intermediate EMT, or Paramedic or program approval. This is one of eight courses (EMS 180, 181, 182, 183, 184, 185, 267, 269) required for successful completion of EMT-Intermediate in the State of Alabama. 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 PROVIDER (1T) 1 credit PREREQUISITE: LPN, R.N., Intermediate EMT, Paramedic, or program approval This is one of eight courses (EMS 180, 181, 182, 183, 184, 185, 267, 269) required for successful completion of EMT-Intermediate in the State of Alabama. 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 PREREQUISITE: Program Approval 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.
EMS 280	BASIC LIFE SUPPORT INSTRUCTOR (1T) 1 credit PREREQUISITE: Successful completion, within the past 12 months, of all areas of basic life support training (CPR) This course provides students with concepts as related to areas of basic life support instruction. Topics include history, concepts, and systems of emergency cardiac care; cardiopulmonary physiology, dysfunction, and actions for survival; introduction to the performance of CPR; foreign body airway obstruction management; pediatric basic life support; special techniques/resuscitation situations, pitfalls, and complications; teaching and learning in basic life support; teaching strategies, and basic provider course organi-

zations. Students will also successfully participate in practice teaching of a cardiopulmonary resuscitation (CPR) class prior to course completion. Students successfully completing this course will receive appropriate documentation of course completion.

ENGLISH (ENG)

ENG 092	BASIC ENGLISH I (3T) 3 credits FORMERLY: ENG 091 This course is a review of basic writing skills and basic grammar. Emphasis is placed on the composing process of sentences and paragraphs in standard American written English. Students will demonstrate these skills chiefly through the writing of well-developed, multi-sentence paragraphs.
ENG 093	BASIC ENGLISH II (3T) 3 credits FORMERLY: ENG 092 PREREQUISITE: A grade of "C" or better in ENG 092 (Formerly ENG 091) or satisfactory placement score This course is a review of composition skills and grammar. Emphasis is placed on coherence and the use of a variety of sentence structures in the composing process and on standard American written English usage. Students will demonstrate these skills chiefly through the writing of paragraph blocks and short essays.
ENG 100	VOCATIONAL TECHNICAL ENGLISH I (3T) 3 credits FORMERLY: VTE 101 PREREQUISITE: Appropriate Placement Score This course includes communication and technical writing skills that prepare students for vocational areas. This course fulfills the ENG requirement only for certificate programs of study.
ENG 101	ENGLISH COMPOSITION I (3T) 3 credits PREREQUISITE: Successful completion of ENG 093 (Formerly ENG 092) 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 the 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.

Course Descriptions

ENG 130	TECHNICAL REPORT WRITING (3T) PREREQUISITE: 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.	3 credits
ENG 251	AMERICAN LITERATURE I (3T) PREREQUISITE: 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.	3 credits
ENG 252	AMERICAN LITERATURE II (3T) PREREQUISITE: 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.	3 credits
ENG 261	ENGLISH LITERATURE I (3T) PREREQUISITE: 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.	3 credits
ENG 262	ENGLISH LITERATURE II (3T) PREREQUISITE: 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 composi-	3 credits

tions, 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) PREREQUISITE: 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.	3 credits
ENG 272	WORLD LITERATURE II (3T) PREREQUISITE: 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.	3 credits
ENG 297	AFRICAN AMERICAN LITERATURE (3T) PREREQUISITE: 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.	3 credits
ENGLISH AS A SECOND LANGUAGE ALABAMA LANGUAGE INSTITUTE (ALI)		
ALI 030	COMPOSITION I (3T) This course is the beginner course in writing for non-native English speakers. This course provides instruction in basic sentence patterns and progresses through fully developed essays. Upon completion, students will demonstrate improvement in use of standard written English.	3 credits
ALI 040	READING AND VOCABULARY I (3T) This course is the beginning reading and comprehension course for non-native English speakers. This course provides instruction in a variety of technical,	3 credits

literary and recreational readings. Upon completion, students will demonstrate improvement in English and reading and comprehension.

ALI 050 CONVERSATIONAL ENGLISH I (3T) 3 credits
This course is the beginner course in oral communication for non-native English speakers. This course provides instruction in practice dialogues and grammatical exercises as well as free conversation. Upon completion, students will demonstrate improvement in oral communication skills.

FIRE SERVICES MANAGEMENT (FSC)

FSC 101 INTRODUCTION TO THE FIRE SERVICE (3T) 3 credits
This course is a survey of the philosophy and history of fire protection, loss of property and life by fire, review of municipal fire defenses, and the organization and function of federal, state, county, city, and private fire protection.

FSC 200 FIRE COMBAT TACTICS AND STRATEGY (3T) 3 credits
This course is a review of fire chemistry, equipment and manpower, basic fire fighting tactics and strategy, methods of attack and preplanning fire problems.

FSC 210 BUILDING CONSTRUCTION FOR THE FIRE SERVICE (3T) 3 credits
This course highlights and assesses the problems and hazards to fire personnel when a building is attacked by fire or is under stress from other factors dealing with collapse.

FSC 240 FIRE CAUSE DETERMINATION (3T) 3 credits
This course covers the burning characteristics of combustibles, interpretation of clues, burn patterns leading to points of origin, identification of incendiary indications, sources of ignition and ignited materials, and preservation of fire science evidence.

FSC 292 ELEMENTS OF SUPERVISION/FIRE SERVICE SUPERVISION (3T) 3 credits
This course covers the responsibility of supervisors, organization, human relations, grievance training, rating, promotion, quality-quantity control, and management-employee relations.

FRENCH (FRN)

FRN 101 INTRODUCTORY FRENCH I (4T) 4 credits
FORMERLY: FRN 103
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
FORMERLY: FRN 104 and FRN 105
PREREQUISITE: FRN 101 (Formerly FRN 103) 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
FORMERLY: FRN 203
PREREQUISITE: FRN 102 (Formerly FRN 104 and 105) 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
FORMERLY: FRN 204
PREREQUISITE: FRN 201 (Formerly FRN 203) 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
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
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.

Course Descriptions

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
FORMERLY: GRN 103

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
FORMERLY: GRN 104
PREREQUISITE: GRN 101 (Formerly GRN 103) 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
FORMERLY: GRN 203
PREREQUISITE: GRN 102 (Formerly GRN 104) 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
FORMERLY: GRN 204 (Formerly GRN 203)
PREREQUISITE: GRN 201 (Formerly GRN 203) 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 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 232 CARE AND PREVENTION OF ATHLETIC INJURIES (3T) 3 credits

This course provides a study of specific athletic injuries, their treatment, and preventative measures.

HED 267 DRUG EDUCATION (3T) 3 credits

This course provides an examination of the drug scene with emphasis on the following: the pharmacological and sociological aspects of drug use; the rehabilitation and treatment resources; and the law enforcement procedures.

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 101 WESTERN CIVILIZATION I (3T) 3 credits**
This course is a survey of social, intellectual, economic, and political developments which have molded the modern western world. The course covers the ancient and medieval periods and concludes in the era of the Renaissance and Reformation.
- HIS 102 WESTERN CIVILIZATION II (3T) 3 credits**
This course is a continuation of HIS 101; it surveys development of the modern western world from the era of the Renaissance and Reformation to the present.
- HIS 111 TECHNOLOGY AND CIVILIZATION I (3T) 3 credits**
This course introduces the interaction between technology and culture in World History from prehistoric times to 1750. While the course provides a basic survey of World History, primary emphasis is placed on technological change and its consequences.
- HIS 112 TECHNOLOGY AND CIVILIZATION II (3T) 3 credits**
This course is a continuation of HIS 111. It surveys technology and culture in World History from 1750 to the present. The course provides a basic survey of modern world history. The course places primary emphasis on technological change and its consequences.
- HIS 121 WORLD HISTORY I (3T) 3 credits**
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**
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**
This course surveys United States history during colonial, Revolutionary, early national, and antebellum periods. It concludes with the Civil War and Reconstruction.
- HIS 202 UNITED STATES HISTORY II (3T) 3 credits**
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 Afro-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 an historical nature either as part of class or on an individual basis.

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 111, NUR 121, 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 103

COMPUTER APPLICATIONS FOR THE HEALTH SCIENCES (3M) 1 credit
PREREQUISITE: Regular admission status
This course introduces computer applications relevant to use in the health sciences. Emphasis is placed on the use of Windows, health-related software, Internet, and basic word processing. Upon completion of this course, the student should be competent in the basic use of computers.

Course Descriptions

HPS 105 MEDICAL TERMINOLOGY (2T, 2E) 3 credits
PREREQUISITE: Regular admission status
 This course is an application to 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 109 ASEPSIS (3S) 1 credit
PREREQUISITE: Regular admission status
 This interdisciplinary course provides the student the opportunity to study pathological organisms as they relate to health, illness, and maintenance of physiological integrity. The principles and skills of clean and sterile technique, universal precautions, medical isolation, and OSHA guidelines are included. Related medical terminology may be presented through computer assisted instruction. Upon completion of this course, students should be able to apply these principles in a variety of clinical settings.

INTERDISCIPLINARY STUDIES (IDS)

IDS 114 INTERDISCIPLINARY SEMINAR: CURRENT TOPICS IN HUMAN CONCERNS (1-2T) 1-2 credits
PREREQUISITE: Permission of the instructor.
 This course is a seminar/discussion course designed to provide an opportunity for the student to conduct an in-depth investigation of selected topics. The particular topic selected will include issues from two or more disciplines and is determined by faculty and student interest. Classroom experiences emphasize and help develop skills in organizing and presenting information as well as explaining and defending ideas and conclusions. An oral seminar presentation is required. IDS 114 may be repeated for credit.

INDUSTRIAL MAINTENANCE TECHNOLOGY (INT)

INT 112 INDUSTRIAL MAINTENANCE SAFETY PROCEDURES (3T) 3 credits
 This course is an in-depth study of the health and safety practices required for maintenance of industrial production equipment. Topics include traffic, ladder, electrical, and fire safety, safe work in confined spaces, electrical and mechanical lock-out procedures, emergency procedures, OSHA regulations, MSDS Right-to-Know law, hazardous materials safety, and safety equipment use and care. Upon course completion, students will be able to implement health and safety practices in an industrial setting.

INT 233 INDUSTRIAL MAINTENANCE METAL WELDING AND CUTTING TECHNIQUES (1T, 6M) 3 credits
 This course provides instruction in the fundamentals of acetylene cutting and the basics of SMAW welding needed for the maintenance and repair of industrial production equipment. Topics include oxy-fuel safety, choice of cutting equipment, proper cutting angles, equipment setup, cutting plate and pipe, hand tools, types of metal welding machines, rod and welding joints, and common welding passes and beads. Upon course completion, students will demonstrate the ability to perform metal welding and cutting techniques necessary for repairing and maintaining industrial equipment.

LIBRARY SCIENCE (LBS)

LBS 100 INTRODUCTION TO LIBRARY USE (2T) 2 credits
 This course provides instruction in the use of the library. Emphasis is placed on the use of the library catalog, periodical indexes, bibliographic sources and general reference materials.

LBS 101 INTRODUCTION TO LIBRARY USE I (1T) 1 credit
 This course provides instruction in the use of the library. Emphasis is placed on basic library skills, including use of library catalogs, reference sources, current information sources and indexes.

LBS 102 INTRODUCTION TO LIBRARY USE II (1T) 1 credit
 This course builds on basic library skills offered in LBS 101, with particular emphasis on library resources involved in writing the research paper.

MACHINE TOOL TECHNOLOGY (MTT)

MTT 101 BASIC MACHINING TECHNOLOGY (1T, 4E) 3 credits
FORMERLY: MTT 111
PREREQUISITE: MTT 121
 This course introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, measuring tools, lathes, drilling machines, saws, milling machines, bench grinders, and layout instruments. Upon completion, students should be able to safely perform the basic operations of measuring, layout, drilling, sawing, turning and milling.

- MTT 102 INTERMEDIATE MACHINE TECHNOLOGY (1T, 4E) 3 credits**
FORMERLY: MTT 112
PREREQUISITE: MTT 101
 This course provides additional instruction and practice in the use of precision measuring tools, lathes, milling machines, and grinders. Emphasis is placed on setup and operation of machine tools including the selection and use of work holding devices, speeds, feeds, cutting tools, and coolants. Upon completion, students should be able to perform basic procedures on precision grinders and advanced operations of measuring, layout, drilling, sawing, turning and milling.
- MTT 104 BASIC MACHINING CALCULATIONS (3T) 3 credits**
PREREQUISITE: MTT 101
 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.
- MTT 105 LATHE SET-UP AND OPERATIONS (2T, 8E) 6 credits**
FORMERLY: MTT 113
PREREQUISITE: MTT 102
 This course includes more advanced lathe practices such as taper turning, threading, boring, and set-up procedures. Emphasis is placed on safety procedures and machinist responsibility in the set-up and operation of lathes. Upon completion, students should be able to apply lathe techniques to produce machine tool projects.
- MTT 106 MILLING MACHINE OPERATIONS (2T, 8E) 6 credits**
FORMERLY: MTT 171 and MTT 272
PREREQUISITE: MTT 102, MTT 104
 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.
- MTT 110 HANDBOOK FUNCTIONS (3T) 3 credits**
PREREQUISITE: MTT 104
 This course covers the use of 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 setup of machine tools.
- MTT 121 BASIC BLUEPRINT READING FOR MACHINISTS (3T) 3 credits**
FORMERLY: MTT 101
 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.

- MTT 131 INTRODUCTION TO METROLOGY (2T, 2E) 3 credits**
FORMERLY: MTT 292
PREREQUISITE: MTT 121, 143
 This course introduces the care and use of precision measuring instruments. 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 the correct use of measuring instruments.
- MTT 142 ADVANCED MACHINING CALCULATIONS (2T) 2 credits**
PREREQUISITE: MTT 104
 This course combines mathematical functions with practical machine shop applications and problems. Emphasis is placed on gear ratios, lead screws, indexing problems, and their applications in the machine shop. Upon completion, students should be able to calculate solutions to machining problems.
- MTT 143 GEOMETRIC DIMENSIONING AND TOLERANCING (2T) 2 credits**
FORMERLY: MTT 102
PREREQUISITE: MTT 121
 This course serves as an introduction to geometric dimensioning and tolerancing for students who are pursuing careers in manufacturing technology or their related fields. Topics covered include fundamentals of symbols, terms used in applications, positional tolerance-coastal applications, data frame and conversion tables.
- MTT 181 SPECIAL TOPICS IN MACHINE TOOL TECHNOLOGY (1T, 3E, 3M) 2 credits**
FORMERLY: MTT 299
PREREQUISITE: Permission of Instructor
 This course is a guided independent 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.



Course Descriptions

MTT 200	INDUSTRIAL PROCESSES (3T) 3 credits PREREQUISITE: Permission of Instructor This course is the study of industrial processes as they pertain to manufacturing. Emphasis will be placed on classroom study of industrial practices and will be supplemented with field trips to manufacturing facilities. Upon completion, students should have knowledge of industrial practices and application.	Emphasis is placed on computer-aided manufacturing, basic computer operations, and the cartesian coordinate system. Upon completion, students should be able to perform basic computer operations and recognize fundamental machining operations.
MTT 201	ADVANCED MACHINING TECHNOLOGY (2T, 8E) 6 credits FORMERLY: MTT 282 and MTT 283 PREREQUISITE: MTT 106 This course provides an introduction to advanced and special machining operations. Emphasis is placed on working to specified tolerances with special and advanced setups. Upon completion, students should be able to produce a part to specifications.	MTT 242 CNC PROGRAMMING (3T) 3 credits PREREQUISITE: CNC 111 A study of the theory of transforming blueprints into computer commands when using a computer controlled mill.
MTT 202	MACHINE MAINTENANCE AND REPAIR (3T) 3 credits PREREQUISITE: Permission of Instructor This course covers preventive maintenance as well as repair of machine tools. Emphasis is placed on safety, disassembly and assembly of lathes, grinders, saws, and milling machines. Upon completion, students should be able to perform machine maintenance and repair of machine tools.	MTT 281 SPECIAL TOPICS IN MACHINE TOOL TECHNOLOGY (1T, 3E, 3M) 2 credits FORMERLY: MTT 191 PREREQUISITE: MTT 102, MTT 106, MTT 121 This course is a guided independent 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 214	COMPUTER NUMERICAL CONTROL GRAPHICS PROGRAMMING TURNING (3T, 6M) 3 credits FORMERLY: MTT 261 PREREQUISITE: MTT 105, CNC 111, CNC 115 This course introduces Computer Numerical Control graphics programming and concepts for turning center applications. Emphasis is placed on the interaction of menus to develop a shape file in a graphics CAM system to develop tool path geometry and part geometry. Upon completion, students should be able to develop a job plan using CAM software, include machine selection, tool selection, operational sequence, speed, feed, and cutting depth.	MASS COMMUNICATIONS (MCM) MCM 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.
MTT 215	COMPUTER NUMERICAL CONTROL GRAPHICS PROGRAMMING MILLING (1T, 6M) 3 credits PREREQUISITE: MTT 106, CNC 111, CNC 115 This course introduces Computer Numerical Control graphics programming and concepts for machining center applications. Emphasis is placed on developing a shape file in a graphics CAM system and transferring coded information from CAM graphics to the CNC milling center. Upon completion, students should be able to develop a complete job plan using CAM software to create a multi-axis CNC program.	MCM 113, 114, 115 STUDENT PUBLICATIONS (1-2E) 1-2 credits each These courses offer practical experience in journalism skills through working on the staff of the student publications.
MTT 217	ORIENTATION TO CNC (3T) 3 credits PREREQUISITE: Permission of Instructor This course introduces the student to the concepts of Computerized Numerical Control as it relates to the modern industrial manufacturing workplace.	MCM 130 NEWS REPORTING (3E) 3 credits PREREQUISITE: Typing ability. This course includes instruction and practice in news-gathering and newswriting techniques including methodology, observation, interviews, and use of sources.
		MCM 213, 214, 215 STUDENT PUBLICATIONS (1-2E) 1-2 credits each These courses offer practical experience in journalism skills through working on the staff of the student publications.
		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 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 (4T) 4 credits
FORMERLY: MTH 108 Elementary Algebra
PREREQUISITE: 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: MTH 092 (Developmental Algebra II) or MTH 098 (Elementary Algebra) 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 for AS degrees.

MTH 101 INTRODUCTORY MATHEMATICS I (2T, 2E) 3 credits
FORMERLY: VTM 101
PREREQUISITE: MTH 090 (Basic Mathematics) or satisfactory placement score.

This course is a comprehensive review of arithmetic with basic algebra designed to meet the needs of certificate and diploma programs. Topics include business and industry related arithmetic and geometric skills used in measurement, ratio and proportion, exponents and roots, applications of percent, linear equations, formulas, and statistics. Upon completion, students should be able to solve practical problems in their specific occupational areas of study. This course fulfills MTH requirement only for certificate programs of study.

MTH 103 INTRODUCTION TO TECHNICAL MATHEMATICS (3T) 3 credits
PREREQUISITE: MTH 092 (Developmental Algebra II) or MTH 098 (Elementary Algebra) or appropriate mathematics placement score

This course is designed for the student in technology needing simple arithmetic, algebraic, and right triangle trigonometric skills.

MTH 104 PLANE TRIGONOMETRY (3T) 3 credits
PREREQUISITE: MTH 100 (Intermediate College Algebra)

This course emphasizes such topics as the solution of triangles, vectors, geometric concepts and complex numbers.

MTH 105 MATH FOR NURSING (2T, 2E) 3 credits
FORMERLY: VTM 103
PREREQUISITE: MTH 090 (Basic Mathematics) or satisfactory placement score

This course is a comprehensive review of arithmetic with basic algebra and introduces calculations of solutions and systems of measurement to meet the practical nursing program requirement. Topics include a review of basic arithmetic, metric system conversions, ratio and proportion, and conversion among and between the metric, apothecaries, and household unit systems and intravenous infusion rates as well as ethical, cultural, and legal aspects of accurate mathematical skills. Upon completion, students will demonstrate proficiency in calculating drug dosages and IV infusion rates for adults and children.

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.

Course Descriptions

MTH 113	<p>PRECALCULUS TRIGONOMETRY (3T) 3 credits</p> <p>FORMERLY: MTH 123 Plane Trigonometry</p> <p>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</p> <p>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.</p>	<p>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.</p> <p>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).</p>
MTH 115	<p>PRECALCULUS ALGEBRA & TRIGONOMETRY (4T) 4 credits</p> <p>FORMERLY: MTH 113 Precalculus with Trigonometry</p> <p>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 pass/fail) MTH 100 (Intermediate College Algebra) and receive permission from the department chairperson.</p> <p>This course is a one-semester combination of Precalculus Algebra and Precalculus Trigonometry intended for superior students. The course covers the following topics: the algebra of functions (including polynomial, rational, exponential, and logarithmic functions), systems of equations and inequalities, quadratic inequalities, and the binomial theorem, as well as the study of trigonometric (circular functions) and inverse trigonometric functions, and includes extensive work with trigonometric identities and trigonometric equations, vectors, complex numbers, DeMoivre's Theorem, and polar coordinates.</p>	<p>MTH 125 CALCULUS I (4T) 4 credits</p> <p>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).</p> <p>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.</p>
MTH 116	<p>MATHEMATICAL APPLICATIONS (3T) 3 credits</p> <p>PREREQUISITE: MTH 090 (Basic Mathematics) or appropriate mathematics placement score</p> <p>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. This is a terminal course designed for students seeking an AAS degree and does not meet the general core requirement for mathematics for AS degrees.</p>	<p>MTH 126 CALCULUS II (4T) 4 credits</p> <p>PREREQUISITE: MTH 125 (Calculus I)</p> <p>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.</p>
MTH 120	<p>CALCULUS AND ITS APPLICATIONS (3T) 3 credits</p> <p>FORMERLY: MTH 146 Calculus for Business</p> <p>PREREQUISITE: A minimum prerequisite of high school Algebra I, Geometry, and Algebra II with an</p>	<p>MTH 131 MATHEMATICS IN GENERAL EDUCATION I (3T) 3 credits</p> <p>FORMERLY: MTH 101 MATHEMATICAL INSIGHTS</p> <p>PREREQUISITE: MTH 090 (Basic Mathematics)</p> <p>This course is designed for general education and for all students in education programs except those who will concentrate on science or mathematics. Emphasis is on the structure of the number system from the integers to the real numbers, logic, numeration systems, prime numbers, basic concepts of algebra, elementary probability and statistics, graphs, informal geometry, and the metric system. This course does not apply toward the general core requirement for mathematics.</p>
	<p>MTH 227 CALCULUS III (4T) 4 credits</p> <p>PREREQUISITE: MTH 126 (Calculus II)</p> <p>This is the third of three courses in the basic calculus</p>	

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: MTH 090 (Basic Mathematics)
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; 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: MTH 231 (Mathematics for the Elementary Teacher I)
This course is the second of a three-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 233 MATHEMATICS FOR THE ELEMENTARY TEACHER III (3T) 3 credits
PREREQUISITE: MTH 232 (Mathematics for the Elementary Teacher II)
This course is the third of a three-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 concepts for plane and solid geometry. Emphasis is on linear measurement as well as fundamental concepts of geometry dealing with lines, angles, triangles, polygons, and solids. The metric system is used for measurement through the course. The use of manipulatives and calculators in the teaching and learning process is emphasized. Upon completion, students

will be given exams to test for mathematical proficiency and the learning of teaching concepts. Additionally, students will demonstrate teaching techniques by preparing a lesson and teaching it to the class for their final exam grade.

MTH 237 LINEAR ALGEBRA (3T) 3 credits
FORMERLY: MTH 219 Linear Algebra
PREREQUISITE: 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 246 MATHEMATICS OF FINANCE (3T) 3 credits
FORMERLY: MTH 102 Business Math
PREREQUISITE: MTH 092 (Developmental Algebra II) or MTH 098 (Elementary Algebra) or appropriate mathematics placement score.
This course explores mathematical applications relevant to business practices. Topics covered include simple and compound interest, credits, trade and bank discounts, annuities, amortization, depreciation, stocks and bonds, insurance, capitalization, and perpetuities. This course does not meet the general core requirement for mathematics.

MTH 265 ELEMENTARY STATISTICS (3T) 3 credits
FORMERLY: MTH 261
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.

Course Descriptions

MUSIC (MUL) (MUP) (MUS)

MUL 192-193A PIANO ENSEMBLE (2-4E) 1 credit
MUL 292-293A FORMERLY: MUE 132C, 232C

PREREQUISITE: Audition and Permission of Instructor
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. Performances are assigned.

MUL 101-02 CLASS PIANO I, II (2E) 1 credit each
FORMERLY: MUS 120, 121, 122, 220, 221, 222

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 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 111-12 CLASS VOICE I, II, III, IV (2E) 1 credit each
MUL 211-12 FORMERLY: MUS 124, 125, 126, 224, 225, 226

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 161-62 CLASS FRETTED INSTRUMENTS I AND II (2E) 1 credit each
FORMERLY: MUS 141, 142, 143, 241, 242, 243

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 170-71 MUSIC WORKSHOP I, II, III, IV (4E) 2 credits each
MUL 270-71 FORMERLY: MUS 160

PREREQUISITE: Permission of Instructor
This course is a seminar clinic in advanced rehearsal/performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

MUL 180-81 CHORALE (2-4E) 1-2 credits
MUL 280-81 FORMERLY: MUE 120A, 220A

PREREQUISITE: Permission of Instructor
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 182-83 MADRIGAL SINGERS (2-4E) 1-2 credits
MUL 282-83 FORMERLY: MUE 120B, MUE 220B

PREREQUISITE: Permission of Instructor and audition
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. This course is a select a cappella performing ensemble. Enrollment is limited. Performances are assigned.

MUL 184-85 CONNECTION (2-4E) 1-2 credits
MUL 284-85 FORMERLY: MUE 121, 221

PREREQUISITE: Permission of Instructor and Audition
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 192-93B GUITAR ENSEMBLE (2-4E) 1-2 credits
MUL 292-93B FORMERLY: MUE 132B, 232B

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 196-97 JAZZ BAND (2-4E) 1-2 credits
MUL 296-97 FORMERLY: MUE 131, 231

PREREQUISITE: Permission of Instructor
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 (1E) 2 credits
102, 201
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 103
104, 203,
204

ORGAN (1E) **2 credits**
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
112, 211
212

VOICE (1E) **2 credits**
PREREQUISITE: MUL 111 AND 112
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
134, 233
234

GUITAR (1E) **2 credits**
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 education 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 next level.

MUP 141
142, 241
242

FLUTE (0.5 – 1E) **1-2 credits**
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 education 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 next level.

MUP 143
144, 243
244

CLARINET (0.5 – 1E) **1-2 credits**
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 education 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 next level.

MUP 145
146, 245
246

CLARINET (0.5 – 1E) **1-2 credits**
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 education goals.

MUP 151
152, 251
252

OBOE (0.5 – 1E) **1-2 credits**
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 education 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 next level.

MUP 153
154, 253,
254

BASSOON (0.5 – 1E) **1-2 credits**
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 education 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 next level.

MUP 161
162, 261
262

TRUMPET (0.5 – 1E) **1-2 credits**
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 education 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 next level.

MUP 163
164, 263
264

FRENCH HORN (0.5 – 1E) **1-2 credits**
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 education 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 next level.

MUP 171
172, 271
272

TROMBONE (0.5 – 1E) **1-2 credits**
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 education 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 next level.

MUP 173
174, 273
274

EUPHONIUM (0.5 – 1E) **1-2 credits**
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 education goals. Students are required to practice a minimum of five

Course Descriptions

	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 next level.		
MUP 175 176, 275 276	TUBA (0.5 – 1E) 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 education 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 next level.	1-2 credits	
MUP 181 182, 281, 282	PERCUSSION (0.5-1E) 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 education 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 next level.	1-2 credits	
MUS 101	MUSIC APPRECIATION (3T) 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 a telecourse, self-paced and lecture format.	3 credits	
MUS 103	SURVEY OF POPULAR MUSIC (1-2T) 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 self-paced and lecture format.	1-2 credits	
MUS 105	READING/LISTENING IN MUSIC APPRECIATION FORMERLY: MUS 107 This course is an independent study reading and listening course in which the student will become familiar with selected musical works and eras. The student will meet periodically with the instructor to discuss or assess assigned materials.	1 credit	
MUS 111	MUSIC THEORY I (3T) PREREQUISITE: Minimum grade of "C" in MUS 110 or acceptable score on placement test (75%) 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. Fall; Decatur campus.	3 credits	
MUS 112	MUSIC THEORY II (3T) PREREQUISITE: Minimum grade of "C" in MUS 111 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. Spring; Decatur campus.	3 credits	
MUS 115	FUNDAMENTALS OF MUSIC (3T) This course is designed to teach the basic fundamentals of music and develop usable musical skills for the classroom teacher. Topics include rhythmic notation, simple and compound meters, pitch notation, correct singing techniques, phrases, keyboard awareness, key signatures, scales, intervals and harmony using I, IV and V with a chordal instrument. Upon completion, students should be able to sing a song, harmonize a simple tune, demonstrate rhythmic patterns and identify musical concepts through written documentation.	3 credits	
MUS 211	MUSIC THEORY III (3T) PREREQUISITE: Minimum grade of "C" in MUS 112 This course introduces the student to the chromatic harmonic practices in the Common Practice Period. Topics include secondary functions, modulatory techniques, and binary and ternary forms. Upon completion, students should be able to demonstrate competence using chromatic harmony through analysis, writing, sight singing, dictation and keyboard skills. Open lab required. Fall; Decatur campus.	3 credits	
MUS 212	MUSIC THEORY IV (3T) PREREQUISITE: Minimum grade of "C" in MUS 211 This course completes the study of chromatic harmonic practices in the Common Practice Period and introduces the student to twentieth-century practices. Topics include the Neapolitan and augmented sixth chords, sonata form, late nineteenth-century tonal harmony and twentieth century practices and forms. Upon completion, students should be able to demonstrate competence using chromatic harmony and basic twentieth century techniques through analysis, writing, sight singing, dictation and keyboard skills. Open lab required. Spring; Decatur campus.	3 credits	

- MUS 251 INTRODUCTION TO CONDUCTING (3T) 3 credits**
FORMERLY: MUS 281
PREREQUISITE: MUS 110 or acceptable score on placement test (75%)
 This course introduces the fundamentals of conducting choral and/or instrumental ensembles. Topics include a study of simple and compound meters, score reading and techniques for conducting effective rehearsals. Upon completion, students should be able to prepare and conduct a choral and/or instrumental score in a rehearsal or performance setting.
- MUS 270 ORGANIZATION OF THE CHURCH MUSIC PROGRAM (2-3T) 2-3 credits**
 This course is designed to explore administrative models of a comprehensive church music program. Topics include leadership, administrative structure, music personnel, facilities, equipment, vestments, music library, budgeting, planning, vocal and instrumental ensembles and scheduling for a music program. Upon completion, students should be able to demonstrate how to plan, coordinate and administer a comprehensive church music program.
- MUS 271 CHURCH MUSIC LITERATURE (2-3T) 2-3 credits**
FORMERLY: MUS 272
 This course provides an historic survey of traditional church music from the 17th century to the present and introduces contemporary Christian styles. Topics include criteria for choosing appropriate music for graded church choirs at easy, medium and advanced levels of difficulty, and a survey of publishing resources and cataloging systems. Upon completion, students should be able to demonstrate a knowledge and understanding of church music literature.
- MUS 272 THE CHILDREN'S CHOIR (2-3T) 2-3 credits**
FORMERLY: MUS 276
 This course is designed to provide techniques for working with the child's voice in a choral setting. Topics include working with children's voices, rehearsal techniques, selecting literature, vestments and organizing a graded choir program. Upon completion, students should be able to demonstrate how to plan, coordinate and administer a graded choir program in a church.
- 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**
FORMERLY: MUS 292
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.

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 which field of mass communications to focus on.
- 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

Course Descriptions

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

PREREQUISITE: MIC 153 or instructor approval

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 harddisk 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 292 MUSICAL ACOUSTICS (3T) 3 credits

PREREQUISITE: MIC 253 or instructor approval

This course pertains to problems of musical acoustics. Emphasis is placed upon the nature of musical acoustics and the science of sound including vibrations, frequency, internals, harmonics, consonance, dissonance and resonance. Upon completion, students should be able to apply acoustic principals to different settings and design a sound system for different situations.

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/AIDE (NAS)

NAS 100 LONG TERM CARE NURSING ASSISTANT (3T, 3C) 4 credits

This course fulfills the seventy-five (75) hour 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.

NAS 111 FUNDAMENTALS OF LONG TERM CARE (3T, 6S) 5 credits

COREQUISITE: NAS 112

This course provides the student with necessary theory and laboratory experiences for the development of skills required of the long term care nursing assistant. Emphasis is placed on infection control, safety, body mechanics, communications, observation, and personal and restorative care. Upon completion of this course, students should apply theoretical concepts to care for the resident/client and perform skills in accordance with the Omnibus Budget Reconciliation Act (OBRA) 1987 guidelines.

NAS 112 FUNDAMENTALS OF LONG TERM CARE CLINICAL (6C) 2 credits

COREQUISITE: NAS 111

This course is designed to assist the student to develop the knowledge, attitudes, and skills needed to perform basic nursing care safely and efficiently in a supervised long term care clinical setting. Emphasis is placed on the application of knowledge, attitudes and skills appropriate for the long term care nursing assistant. Upon completion of this course, the student should demonstrate beginning competence in the delivery of care to the client in a long term care facility.

NAS 113 FUNDAMENTALS OF HOME HEALTH CARE (3T, 6S) 5 credits

This course provides the student with the necessary theory and laboratory experiences for the development of skills required to qualify as a Home Health Aide. Emphasis is placed on the acquisition of skills in communication, observation, mobility, personal care, and infection control that are required to care for the home-bound client of all ages. Upon completion of this course, the student should be able to apply concepts and skills in areas required by the Omnibus Budget Reconciliation Act (OBRA) 1987 and the National Association of Home Care.

NAS 114 HOME HEALTH AID CLINICAL (6C) 2 credits
PREREQUISITE: NAS 113

This course is designed to assist the student to develop knowledge, attitudes and skills needed to perform basic nursing care safely and efficiently in a supervised home health care clinical setting. Emphasis is placed on application of knowledge, attitudes, and skills needed appropriate for the home health care aide. Upon completion of this course, the student will demonstrate beginning competence in care of the client in the home care setting.

NAS 115 CPR & BASIC FIRST AID (2T) 1 credit

This course is designed to help the student feel more confident and act appropriately in an emergency situation. Emphasis is placed on providing the student with theoretical concepts to develop skills in basic first aid and cardiopulmonary resuscitation. Upon successful course completion, which includes specific competencies in basic life support, the student will receive appropriate course completion documentation.

NURSING/ADN (NUR)

NUR 101 BASIC LIFE SUPPORT (1T) 1 credit
PREREQUISITE: Permission of Instructor

This course includes theory and application in the area of cardiopulmonary resuscitation (CPR). Emphasis is placed on single-rescuer of the adult, two-rescuer, CPR, managing obstructed airways, and infant and child. The student should be able to successfully demonstrate CPR.

NUR 110 FUNDAMENTALS OF NURSING (4T, 3S/3C) 6 credits
PREREQUISITE: Admission to program, permission of instructor.

This course presents concepts and theories basic to the art and science of nursing. Emphasis is placed on introduction to problem-solving and the nursing process. The role of the nurse as a member of the discipline of nursing is emphasized. Students are introduced to the concepts of needs, growth and development, safety, communication, teaching-learning, critical thinking, ethical-legal, nursing history, and the program's philosophy of nursing. 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. Students will demonstrate a beginning level of competency in performing basic nursing skills for individuals with common health alterations. (Lab/clinical required.)

NUR 131 HEALTH ASSESSMENT (3S) 1 credit
PREREQUISITE: ENG 101, SPH 107, PSY 200, MTH 100 or MTH 112 or MTH 116
COREQUISITE: BIO 201, PSY 210, HPS 100, NUR 111, NUR 121, NUR 241
This course is designed to provide students the opportunity to learn and practice history taking and physical

NUR 200 BASIC LIFE SUPPORT UPDATE (1T) 1 credit

PREREQUISITE: Permission of Instructor

This course provides the student a review of concepts related to cardiopulmonary resuscitation. Emphasis is placed on single-rescuer of the adult, two-rescuer CPR, managing obstructed airways, and infant and child CPR. The student should be able to successfully demonstrate CPR.

NUR 201 SPECIALIZED AREA OF STUDY (1T) 1 credit

PREREQUISITE: Permission of Instructor

This course is directed toward the specialized study of theory experiences in a selected area as determined by students, employers, and/or the program. Emphasis is placed on the development of knowledge in an area of interest to the student. The student should be able to meet the objectives of the course as approved by the instructor.

NUR 202 SPECIALIZED AREA OF STUDY (2T) 2 credits
PREREQUISITE: BIO 220, NUR 262, NUR 263, NUR 278

COREQUISITE: NUR 264, NUR 279, NUR 291, Humanities Elective

This course is directed toward the specialized study of nursing experiences in a selected area as determined by students, employers, and/or the program. Emphasis is placed on the development of knowledge and skills in an area of interest to the student. The student should be able to meet the theoretical and skill objectives of the course as approved by the instructor.



Course Descriptions

NUR 203	SPECIALIZED AREA OF STUDY (3P3) 1 credit PREREQUISITE: Permission of Instructor This course is directed toward the application of clinical experience in a selected area as determined by students, employers, and/or the program. Emphasis is placed on the development of knowledge and skills in an area of interest to the student. The student should be able to meet the theoretical and skill objectives of the course as approved by the instructor/preceptor. (Clinical required).		should be able to meet the objectives of the course as approved by the instructor. (Clinical required).
NUR 204	COMPUTER APPLICATION IN NURSING (3S) 1 credit PREREQUISITE: Permission of Instructor This course includes concepts related to computer and technology applications in nursing. Emphasis is placed on computer hardware and software utilized in education, research, and health care settings. Students should be able to incorporate computer technology into nursing practice. (Lab required).	NUR 209	DIRECTED STUDY IN NURSING (3T) 3 credits PREREQUISITE: Permission of Instructor This course is designed to provide the opportunity for study in a specific area of nursing. Emphasis is placed on the increase in knowledge in an area of interest to the student. The student should be able to meet the objectives of the course as approved by the instructor.
NUR 205	ADVANCED CONCEPTS OF GERIATRIC NURSING (2T) 2 credits PREREQUISITE: Permission of Instructor This course is designed to enhance the student's knowledge of nursing care of the older adult. Emphasis is placed on current issues and research in gerontology. The student should be able to integrate research findings into nursing practice.	NUR 210	MOBILITY PLACEMENT REVIEW (2T, 3S) 3 credits PREREQUISITE: Permission of Instructor This course is designed to provide LPN Mobility Students knowledge to assist in preparation for proficiency exams. Emphasis is placed on review and update of relevant nursing theory, process and skills. The student should be able to pass designated proficiency exams. (Lab required).
NUR 206	ADVANCED NUTRITION CONCEPTS (2T) 2 credits PREREQUISITE: Permission of Instructor This course includes concepts related to normal nutrition and modifications for therapeutic diets throughout the life cycle. Topics include enteral/parenteral feedings, disabling disease, rehabilitation, and drug-nutrient interactions. The student should be able to provide diet therapy for clients in acute care as well as community settings.	NUR 211	NURSING CONCEPTS FOR MOBILITY STUDENTS (4T, 3C) 5 credits PREREQUISITE: ENG 101, SPH 107, PSY 200, BIO 201, MTH 100 or MTH 112 or MTH 116, Validation, Permission of Instructor COREQUISITE: PSY 210, BIO 202 This course is designed to assist the licensed practical nurse in transition to the role of the associate degree nurse. The program's philosophy, objectives, and conceptual framework are also introduced. Emphasis is placed on the nursing process, communication, selected theory, and nursing skills and the role of the registered nurse. Upon completion, students should be able to articulate into the ADN program. (Clinical required)
NUR 207	DIRECTED STUDY IN NURSING (1T) 1 credit PREREQUISITE: Permission of Instructor This course is designed to increase the opportunity for exploring, reading, and reporting on specific theoretical topics related to the field of nursing. Topics must be approved by the instructor. Emphasis is placed on the development of knowledge in an area of interest to the student. The student should be able to meet the objectives of the course as approved by the instructor.	NUR 231	HEALTH ASSESSMENT FOR NURSES (2T, 3S) 3 credits PREREQUISITE: Permission of Instructor This course is designed to build on the knowledge and skills of nurses to enhance the practitioner's performance of physical examinations and history taking. Techniques for a systematic head-to-toe approach to all body systems will be taught and validated through return demonstration. Participants will be expected to document normal and abnormal health assessment findings and interpret pertinent findings in order to identify nursing diagnosis. The participant should be able to utilize comprehensive health assessment skills in a variety of health care settings. (Lab required).
NUR 208	DIRECTED STUDY IN NURSING (1T, 3C) 2 credits PREREQUISITE: Permission of Instructor This course is designed to increase the opportunity for exploring, reading and practicing selected clinical laboratory skills related to the field of nursing. Topics must be approved by the instructor. Emphasis is placed on the development of knowledge and clinical skills in an area of interest to the student. The student	NUR 232	ADVANCED MANAGEMENT OF DYSRHYTHMIAS (3S) 1 credit PREREQUISITE: Permission of Instructor This course is designed to assist the student in the identification and treatment of cardiac emergencies. Emphasis is placed on invasive and non-invasive treatment. The student should be able to identify complex dysrhythmias and implement treatment modalities. (Lab required).

NUR 241 BASIC PHARMACOLOGY (3S) 1 credit
PREREQUISITE: ENG 101, SPH 107, PSY 200, MTH 100 or MTH 112 or MTH 116
COREQUISITE: BIO 201, PSY 210, HPS 100, NUR 111, NUR 121, NUR 131

This course introduces the student to basic principles of pharmacology and the skills necessary to safely administer medications. Areas of emphasis include concepts of legal implications, pharmacokinetics, pharmacodynamics, calculation of drug dosages, and medication administration. Students will be able to demonstrate accurate dosage calculations, correct medication administration and knowledge of drug classifications. (Lab required).

NUR 242 ADVANCED PHARMACOLOGY (2T) 2 credits
PREREQUISITE: NUR 111, NUR 121, NUR 131, NUR 241, BIO 201, PSY 210, HPS 100
COREQUISITE: NUR 271, NUR 251, BIO 202

This course is designed to provide the student comprehensive knowledge of drug classifications and applications of pharmacology. Emphasis is placed on nursing responsibility, accountability, and application of the nursing process regarding drug therapy. The actions, dosages, side effects, adverse reactions are presented for drug prototypes from each classification of drugs. The student will be able to synthesize knowledge of drug therapy in a variety of settings with individuals across the life span.

NUR 251 ADULT NURSING I (3T, 6C) 5 credits
PREREQUISITE: NUR 111, NUR 121, NUR 131, NUR 241, BIO 201, PSY 210, HPS 100
COREQUISITE: NUR 271, BIO 202

This course provides an opportunity to utilize the provider of care and manager of care roles to meet nursing needs of adults in a variety of settings. Emphasis is placed on the aging process as it applies to normal developmental changes and alterations in health commonly occurring in the adult. Topics include fluid and electrolytes, perioperative care, stress, pain management and nursing care related to the integumentary, genitourinary, reproductive, digestive and sensory systems. Students should be able to apply the nursing process in caring for adults in a variety of settings.

NUR 265 ADVANCED NURSING I (3.5T, 7.5C) 6 credits
PREREQUISITES: NUR 251, NUR 271, BIO 202, PSY 210
COREQUISITE: BIO 220

This course introduces concepts related to the nursing care of adults and children experiencing acute and chronic alterations in health and concepts related to the psychosocial needs of individuals. Emphasis is placed on utilizing the nursing process as a framework for providing and managing nursing care to individuals along the wellness-illness continuum. Common biopsychosocial theories and treatment modalities are included. Cultural, family and individual beliefs are addressed. Students should be able to apply the nursing

NUR 266

ADVANCED NURSING II (3.5T, 7.5C) 6 credits
PREREQUISITE: NUR 265
COREQUISITE: BIO 220

This course provides expanded concepts related to nursing care for adults and children experiencing common complex alterations in health and concepts related to the psychosocial needs of individuals. Common alterations in mental health and treatment modalities are included. Cultural, family and individual beliefs are addressed. Emphasis is placed on the nurse's role as a member of a multi-disciplinary team and as a manager of care for groups of individuals. Students should be able to provide comprehensive nursing care for groups of individuals with complex alterations in health in a variety of settings. (Clinical required)

NUR 267

ADVANCED NURSING III (4T, 6C) 6 credits
PREREQUISITE: NUR 266, BIO 220
COREQUISITE: NUR 291, NUR 201, NUR 242, HUMANITIES ELECTIVE

This course includes concepts related to nursing care of adults and children experiencing complex alterations in health and provides expanded concepts related to the psychosocial needs of individuals. Common alterations in mental health and treatment modalities are included. Cultural, family and individual beliefs are addressed. Emphasis is placed on the nurse's role as a member of a multi-disciplinary team and as a manager of care for groups of individuals. Students should be able to provide comprehensive nursing care for groups of individuals with complex alterations in health in a variety of settings. (Clinical required.)

NUR 271

MATERNAL-NEWBORN NURSING (2T, 6C) 4 credits
PREREQUISITE: NUR 111, NUR 121, NUR 131, NUR 241, BIO 201, PSY 210, HPS 100
COREQUISITE: NUR 251, BIO 202

This course provides a family centered approach to the nursing care of the childbearing family. Emphasis is placed on concepts related to the antepartal, intrapartal, post-partal, and neonatal periods. The student should be able to manage and provide care to the childbearing family in a variety of health care settings. (Clinical Required).

NUR 281

STRESS MANAGEMENT (1T) 1 credit
PREREQUISITE: Permission of Instructor

This course provides an enlightened approach to recognizing and dealing with stress and stressors. A variety of stress reduction techniques, such as art therapy, humor, music, poetry, progressive relaxation, imagery, and journal writing are taught through class participation. The participant should be able to utilize a variety of methods for reducing stress in self and others.

Course Descriptions

- NUR 291** **TRANSITION INTO NURSING PRACTICE (2T, 5P5)** **3 credits**
PREREQUISITE: NUR 265, NUR 266, BIO 220, Validation or Permission of Instructor
COREQUISITE: NUR 267, NUR 242, NUR 201, Humanities Elective
 This course prepares the student for transition into nursing practice. Emphasis is placed on the roles of the professional nurse, concepts of leadership, and management, and trends and issues in health care delivery. The student will apply these concepts in the preceptor experience. (Preceptorship required).
- NUR 292** **NURSING LICENSURE EXAMINATION REVIEW (2T)** **2 credits**
PREREQUISITE: Permission of Instructor
 This course is designed to assist the student in preparation for the nursing licensure examination. Emphasis is placed on test taking skills, computer assisted simulations, and content basic to the practice of nursing. The student should be able to pass the nursing licensure exam.
- NUR 293** **SAFETY INTERVENTIONS IN NURSING (2T)** **2 credits**
PREREQUISITE: Permission of Instructor
 This course is taught by using the current guidelines set forth in OSHA, and is designed to ensure that the pre-requirements of clinical affiliating agencies are met. The course focus is in the use of interventions related to family domestic violence, standard/universal precautions/bloodborne pathogens, infection control, communicable disease and review of selected emergency procedures. Upon course completion students should be able to participate in the clinical settings.

NURSING/PRACTICAL (LPN)

- LPN 098** **PREPARATION FOR PRACTICAL NURSING (3T)** **3 credits**
 This course begins to build the knowledge base for the more advanced courses in the practical nursing program. Content includes effective study and test-taking skills, assertiveness training, stress management, values clarification, cultural diversity, ethics and legal considerations, communication skills, introduction to the nursing process, and basic computer skills. Upon completion of this course, the student will demonstrate basic knowledge necessary for entry into the practical nursing program.
- LPN 099** **BASIC NURSING SKILLS (2T, 3S)** **3 credits**
 This course provides the student with an introduction of procedures utilized in the basic care of clients. Topics included in this course are vital signs, body mechanics, infection control measures, personal care, and nutritional needs. Upon completion of this course, the student will demonstrate the designated basic nursing skills.

- LPN 100** **BASIC LIFE SUPPORT (1T)** **1 credit**
 Basic Cardiopulmonary Resuscitation is a course for the health care provider to develop skills in administering a combination of artificial respirations and external compressions as an emergency procedure when cardiac arrest occurs. The course content is consistent with national standards for basic life support courses. Upon completion, the student will demonstrate proficiency as specified by established national standards.
- LPN 101** **EMERGENCY/FIRST AID (2T, 3S)** **3 credits**
 This course will prepare the student to assess and make appropriate decisions to implement first aid. Content emphasizes common health related emergencies and preventive measures. Upon completion of this course, the student will demonstrate proficiency of written, oral and skill requirements.
- LPN 103** **NURSING INFORMATICS (1T, 3S)** **2 credits**
PREREQUISITE: Permission of Instructor
COREQUISITE: LPN 145, LPN 118
 Nursing informatics introduces the student to the use of computer technology in nursing and in the delivery of health care. Emphasis is placed on basic computer operations and functions, nursing information systems and computerized medical records, computer-assisted learning, and basic computer applications. Upon completion of this course, the student will demonstrate the basic knowledge and skills of computer applications.
- LPN 104** **PRACTICAL NURSING MASTER STUDENT (2T, 3S)** **3 credits**
 This course is designed to assist the student to acquire the skills necessary to become successful in the student role. The focus of the course includes study skills, overcoming test anxiety, note-taking, improving memory, managing time, and developing organizational skills. Upon completion of this course, the student will demonstrate skills needed to be successful in the student role.
- LPN 105** **FUNDAMENTALS OF NURSING (2T, 9C)** **5 credits**
PREREQUISITE: Permission of Instructor
 This course is an introduction to basic nursing concepts and skills. Topics include basic needs, medical terminology, homeostasis, and the health/wellness continuum. Upon completion of this course, the student will demonstrate competency in providing fundamental care to all patients.
- LPN 113** **BODY STRUCTURE AND FUNCTION FOR LPN (2T, 3S)** **3 credits**
PREREQUISITE: Admission to program or Permission of Instructor
 This course is designed to enable the student to acquire knowledge of normal structure and function of body systems. Content focuses on the interrelations among the organ systems and the relationship of each organ system to homeostasis. Upon completion of this course, the student will demonstrate basic knowledge of body systems and their relationships.

LPN 114	DOSAGE CALCULATIONS (3S) 1 credit PREREQUISITE OR COREQUISITE: MTH 100 or above and Permission of Instructor This course introduces calculation of solutions and systems of measurement. Conversions among and between the metric, apothecaries, and household unit systems and intravenous infusion rates will be included. Upon completion of this course, the student will demonstrate proficiency in calculating drug dosages and IV infusion rates for adults and children.	LPN 134	MATERNAL HEALTH NURSING (1T, 3S) 2 credits PREREQUISITE: LPN 110, 111, 112, 113 COREQUISITE: LPN 172 This course uses the nursing process to focus on the childbearing cycle of the family unit and the role of the nurse in care of mother and newborn and facilitator of adaptation. Course content includes the normal pregnancy and complications; labor and delivery; care of the newborn; post-partum care, and drug therapy. Upon completion of this course, the student will demonstrate knowledge needed to deliver safe and effective nursing care for the family unit in the child-bearing cycle.
LPN 115	NUTRITION AND DIET THERAPY (1T, 3S) 2 credits PREREQUISITE: LPN 113, HPS 105, HPS 109 COREQUISITE: LPN 110, LPN 111, LPN 112 CO/PREREQUISITE: HPS 104 This course uses the nursing process to present basic principles of normal nutrition and diet therapy throughout the life cycle. The functions, requirements and deficiency of specific nutrients are identified as well as the modifications for therapeutic diets. Upon completion of this course, the student will demonstrate knowledge of basic nutrition principles and modifications necessary for health maintenance, promotion, and restoration.	LPN 135	CHILD HEALTH NURSING (1T, 3S) 2 credits PREREQUISITE: LPN 110, LPN 111, LPN 112, LPN 113 COREQUISITE: LPN 182, LPN 132 This course is designed to provide the student with knowledge necessary to meet the physiological, psychosocial, cultural, and developmental needs of the sick or well child from infancy through adolescence in a safe and ethical manner. Course content includes aspects of growth and development, health supervision, prevention and care of the pediatric client. Upon completion of this course, the student will demonstrate knowledge needed to deliver safe and effective care to children.
LPN 118	MENTAL HEALTH CONCEPTS (2T) 2 credits PREREQUISITE: LPN 122, LPN 161, LPN 134 COREQUISITE: LPN 103, LPN 145 This course is designed to provide an overview of psychosocial adaptation and coping concepts used throughout the life span. Topics include therapeutic communication skills, normal and abnormal behaviors, treatment modalities, and developmental needs. Upon completion of this course, the student will demonstrate the ability to assist client in maintaining psychosocial integrity through the use of the nursing process.	LPN 136	PHARMACOLOGY (2T) 2 credits PREREQUISITE: LPN 105, LPN 113 or BIO 147. COREQUISITE: LPN 121, LPN 122, LPN 131, LPN 132, LPN 135 or LPN 141 and appropriate clinical. This course provides the student with knowledge of pharmacological agents used to treat disorders related to the corequisite nursing theory course. The nursing process provides the framework for the study of medications, classifications, physiological action, common side effects, appropriate nursing action and criteria for evaluating effectiveness of drug therapy. Upon completion of this course, the student will demonstrate knowledge necessary to safely administer medications.
LPN 120	PHARMACOLOGY (1T, 3C) 2 credits This course is an introduction to pharmacological agents commonly used with recurring pathology. Topics include drug laws, drug classifications, and therapeutic pharmacological interventions. Upon completion of this course, the student will demonstrate knowledge of basic pharmacology agents and the administration of medications.	LPN 141	ADULT HEALTH CONCEPTS III (2T, 3S) 2 credits PREREQUISITE: LPN 105, LPN 113 or BIO 147. PREREQUISITE or COREQUISITES: LPN 143, LPN 136 or HPS 104 and the appropriate clinical. This course provides the student with principles necessary to meet the needs of the individual throughout the adult life span in a safe and ethical manner using nursing process. The focus of the course is on meeting the needs of individuals requiring emergency care and with diseases/disorders of the neurological, sensory, cardiovascular and endocrine systems. Upon completion of this course, the student will demonstrate knowledge necessary to deliver safe and effective nursing care.
LPN 121	ADULT HEALTH CONCEPTS I (2T, 3S) 3 credits PREREQUISITE: LPN 105, LPN 113 or BIO 147 COREQUISITE: LPN 123, LPN 136 or HPS104 and the appropriate clinical course. This course provides the student with principles necessary to meet the needs of the individual throughout the adult life span in a safe and ethical manner using the nursing process. The focus of the course is on meeting the needs of individuals with diseases and disorders of the musculoskeletal, integumentary, respiratory, gastrointestinal systems and peri-operative states. Upon completion of this course, the student will demonstrate knowledge necessary to deliver safe and effective nursing care.		

Course Descriptions

LPN 145	ROLE TRANSITION (3S) 1 credit PREREQUISITE: LPN 110, LPN 111, LPN 112, LPN 113 or Permission of Instructor COREQUISITE: LPN 103, LPN 118 This course is designed to provide the student with the knowledge and skills necessary to make the transition from student to LPN practitioner. Content includes the professional responsibilities of the LPN, leadership skills, quality assurance, fiscal management and professional accountability, resume preparation, job interviewing skills, obtaining/resigning employment, and preparation for the NCLEX-PN. Upon completion of this course the student will demonstrate knowledge and skills necessary for entry into practical nursing.	LPN 200	CURRENT HEALTH ISSUES AND TRENDS (3T) 3 credits PREREQUISITE: Permission of Instructor This theory course is designed to allow the student to explore issues that affect health care. Topics include issues that are relevant to current nursing practice. Upon completion of this course, the student will demonstrate knowledge necessary to adapt to a changing health care environment.
LPN 161	APPLIED CLINICAL CONCEPTS (12C) 4 credits PREREQUISITE: LPN 110, LPN 111, LPN 112, LPN 113 COREQUISITE: LPN 122 This course provides the student with opportunities to apply concepts and principles of client care in a structured environment. Client experiences are designed to provide opportunity for application of nursing process, psychomotor skills, critical thinking, and knowledge of client care for clients through the life span. Upon completion of this course, the student will demonstrate knowledge and skills necessary to provide safe and effective care to clients utilizing nursing process.	LPN 201	GERIATRIC NURSING CONCEPTS (3T) 3 credits PREREQUISITE: Permission of the Instructor This course is designed to provide the student with an opportunity to explore physiological, psychosocial, cultural and developmental needs of the geriatric client. Content will include physical and psychosocial needs unique to the geriatric client, methods of health promotion, maintenance, and restoration, issues related to death and dying, long-term care, and pharmacological considerations. Upon completion of this course, the student will demonstrate knowledge and skills necessary to provide effective care to the geriatric client.
LPN 162	ADULT CHILD NURSING CLINICAL (9C) 3 credits PREREQUISITE: LPN 105, LPN 113, or BIO 147. COREQUISITES: LPN 121, LPN 122, LPN 134, or LPN 135. This course provides the student with opportunities to apply concepts and principles of client care in a structured environment. Client experiences are designed to provide opportunity for application of nursing process, psychomotor skills, critical thinking, and knowledge of client care for clients through the life span. Upon completion of this course, the student will demonstrate knowledge and skills necessary to provide safe and effective care utilizing nursing process.	LPN 202	READING EKG'S FOR PRACTICAL NURSING (3T) 3 credits PREREQUISITE: Permission of Instructor This course provides the student with the knowledge and skills for interpretation of electrocardiograms. Emphasis is placed on the recognition and treatment of common atrial, junctional, and ventricular arrhythmias. Upon completion of this course, the student will demonstrate knowledge and skills necessary for recognition of normal and abnormal heart rhythms.
LPN 172	MATERNAL HEALTH CLINICAL (6C) 2 credits PREREQUISITE: LPN 110, LPN 111, LPN 112, LPN 113 COREQUISITE: LPN 134 This course is designed to provide the student with opportunities to apply concepts and principles of maternal health nursing in a structured environment. Clinical experiences are designed to provide opportunity for application of nursing process, psychomotor skills, critical thinking, and knowledge of client care for the maternal health client. Upon completion of this course, the student will demonstrate knowledge and skills necessary to provide safe and effective care to the family unit in the child bearing cycle.	LPN 203	IV THERAPY CONCEPTS (2T, 3S) 3 credits PREREQUISITE: Permission of Instructor This course provides the student with advanced knowledge and skills in the principles of intravenous fluid therapy. Emphasis is placed on anatomy review, phlebotomy techniques, and IV procedures and delivery systems. Upon completion of this course, the student will demonstrate knowledge and skills necessary to deliver safe and effective intravenous therapy.
		LPN 204	PULMONARY NURSING CONCEPTS FOR LPN (3T) 3 credits PREREQUISITE: Permission of Instructor This course is designed to expand the knowledge base of the student in principles of respiratory nursing. Topics include physiology/pathophysiology review, concepts of pulmonary nursing, and health promotion/maintenance concepts. Upon completion of this course, the student will demonstrate knowledge and skills necessary to deliver safe and effective care to the client with pulmonary alterations.
		LPN 205	DIRECTED STUDIES I FOR LPN (1T) 1 credit PREREQUISITE: Permission of Instructor This course provides the student with an opportunity to expand knowledge of practical nursing. Learning

activities will be tailored to meet the unique needs of the student. Upon completion of this course, the student will meet requirements as specified in a preconstructed contractual agreement.

- LPN 206 DIRECTED STUDIES II FOR LPN (2T) 2 credits**
PREREQUISITE: Permission of Instructor
This course provides the student with an opportunity to expand knowledge of practical nursing. Learning activities will be tailored to meet the unique needs of the student. Upon completion of this course, the student will meet requirements as specified in a preconstructed contractual agreement.
- LPN 207 DIRECTED STUDIES III FOR LPN (3T) 3 credits**
PREREQUISITE: Permission of Instructor
This course provides the student with an opportunity to expand knowledge of practical nursing. Learning activities will be tailored to meet the unique needs of the student. Upon completion of this course, the student will meet requirements as specified in a preconstructed contractual agreement.
- LPN 208 LONG TERM/RESTORATIVE NURSING FOR LPN (2T, 3S) 3 credits**
PREREQUISITE: Permission of Instructor
This course is designed to expand the knowledge base of the student in principles of long term care and restorative nursing. Topics include physiological and psychosocial restorative concepts, chronic illness, dementias, and community resources. Upon completion of this course, the student will demonstrate knowledge and skills necessary to deliver safe and effective care for the client requiring long term and restorative care.
- LPN 209 NCLEX-PN EXAMINATION REVIEW (2T) 2 credits**
PREREQUISITE: Permission of Instructor
This course is designed to assist the student in preparation for the practical nursing licensure examination (NCLEX-PN). Emphasis is placed on test taking skills, computer-assisted simulations and practice tests, development of prescriptive plan for medication and content specific to the practice of practical nursing.
- LPN 251 CLINICAL PRECEPTORSHIP FOR LPN (15 5P) 3 credits**
PREREQUISITE: Permission of Instructor
This course is designed to provide the student with an opportunity to participate in utilizing the nursing process in practice in a health care setting under the direct leadership of a licensed professional. Emphasis is placed on developing clinical skills. Upon completion of this course, the student will meet requirements as specified in a preconstructed contractual agreement.

OFFICE ADMINISTRATION (OAD)

- OAD 100 BASIC KEYBOARDING (1-3T) 1-3 credits**
FORMERLY: OAD 100A
This course is designed to enable the student to develop touch keyboarding skills for efficient use of the typewriter or microcomputer through classroom instruction and outside lab. Emphasis is on speed and accuracy in keying alphabetic, symbol, and numeric information. Upon completion, the student should be able to demonstrate proper technique while keying on a typewriter or microcomputer keyboard.
- OAD 101 BEGINNING KEYBOARDING (3T) 3 credits**
FORMERLY: OAD 101 Keyboarding I
This course is designed to enable the student to use the touch method of keyboarding through classroom instruction and outside lab. Emphasis is on speed and accuracy in keying alphabetic, symbol, and numeric information using the typewriter or microcomputer keyboard. Upon completion, the student should be able to demonstrate proper technique and an acceptable rate of speed and accuracy, as defined by the course syllabus, in the production of basic business documents such as memos, letters, reports, and tables.
- OAD 103 INTERMEDIATE KEYBOARDING (3T) 3 credits**
FORMERLY: OAD 103 Keyboarding II
PREREQUISITE: OAD 101 or Permission of Instructor
This course is designed to assist the student in increasing speed and accuracy using the touch method of keyboarding through classroom instruction and outside lab. Emphasis is on the production of business documents such as memoranda, letters, reports, tables, and outlines. 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 104 ADVANCED KEYBOARDING (3T) 3 credits**
FORMERLY: OAD 104 Keyboarding III
PREREQUISITE: OAD 103 or Permission of Instructor
This course is designed to assist the student in continuing to develop speed and accuracy using the touch method of keyboarding through classroom instruction and outside lab. Emphasis is on the production of business documents using decision-making skills. 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 high-quality business documents.
- OAD 125 WORD PROCESSING (3T) 3 credits**
FORMERLY: OAD 228
PREREQUISITE: OAD 101 or Permission of Instructor
This course is designed to provide the student with basic word processing skills through classroom instruction and outside lab. Emphasis is on the utilization of software features to create, edit and print common office documents. Upon completion, the student

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should be able to demonstrate the ability to use industry-standard software to generate appropriately formatted, accurate, and attractive business documents such as memos, letters and reports.

OAD 126 ADVANCED WORD PROCESSING (3T) 3 credits
FORMERLY: OAD 229 Word Processing II
PREREQUISITE: OAD 125 or Permission of Instructor

This course is designed to increase student proficiency in using the advanced word processing functions through classroom instruction and outside lab. Emphasis is on the use of industry-standard software to maximize productivity. Upon completion, the student should be able to demonstrate the ability to generate complex documents such as forms, newsletters, and multi-page documents.

OAD 138 RECORDS/INFORMATION MANAGEMENT (3T) 3 credits
FORMERLY: OAD 220

This course is designed to give the student knowledge about managing office records and information. Emphasis is on basic filing procedures, methods, systems, supplies, equipment, and modern technology used in the creation, protection, and disposition of records stored in a variety of forms. Upon completion, the student should be able to perform basic filing procedures.

OAD 200 MACHINE TRANSCRIPTION (3T) 3 credits
FORMERLY: OAD 224
PREREQUISITE: OAD 103

This course is designed to develop marketable skills in transcribing various forms of dictated material through classroom instruction and outside lab. Emphasis is on the use of microcomputers and a commercial word processing package. Upon completion, the student should be able to accurately transcribe documents from dictated recordings.

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 use of the tools necessary for effective supervision of people and technology in the modern office.

OAD 230 ELECTRONIC PUBLISHING (3T) 3 credits
FORMERLY: OAD 240 Electronic Publishing
PREREQUISITE: Permission of Instructor

This course is designed to introduce the student to the elements and techniques of page design, layout and typography through classroom instruction and outside lab. Emphasis is on the use of current commercial desktop publishing software, graphic tools, and electronic input/output devices to design and

print high-quality publications such as newsletters, brochures, catalogs, forms, and flyers. Upon completion, the student should be able to utilize proper layout and design concepts in the production of attractive desktop published documents.

OAD 232 THE ELECTRONIC OFFICE (3T) 3 credits
PREREQUISITE: Permission of Instructor

This course is designed to enable the student to develop skill in the use of integrated software through classroom instruction and outside lab. Emphasis is on the use of computerized equipment, software, networking, and communications technology. Upon completion, the student should be able to satisfactorily perform a variety of office tasks using current technology.

OAD 233 TRENDS IN OFFICE TECHNOLOGY (3T) 3 credits
FORMERLY: OAD 233 Current Trends in Office Technology
PREREQUISITE: Permission of Instructor

This course is designed to address current trends in office technology through classroom instruction and outside lab. Emphasis is on 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.

ORIENTATION (ORI)

ORI 103 ORIENTATION (STUDY SKILLS) (1T) 1 credit
This nationally recognized, student success course offers tips on studying, test anxiety, note taking, memory improvement, time management and organizational skills.

ORIENTATION/TECHNICAL (ORT)

ORT 100 ORIENTATION TO COLLEGE 1(2) 2 credits
This course is designed to introduce the beginning student to college life. It provides that student with information on what the college expects from the student and what the student should expect from the college. The course also addresses student attitudes and goals as well as safety and other issues pertinent for technical students. For non-degree programs only.

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 labo-

ratory 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 introduce the basic fitness and to improve the student's understanding of wellness. Fitness levels will be improved through aerobics and aerobic activities.
- 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.
- PED 107 AEROBICS DANCE (Beginning) (2A) 1 credit**
This course introduces the fundamentals of step and dance aerobics. Emphasis is placed on basic stepping up, basic choreographed dance patterns, and cardiovascular fitness; and upper body, floor, and abdominal exercises. Upon completion, students should be able to participate in basic dance aerobics.

- PED 108 AEROBICS DANCE (Intermediate) (2A) 1 credit**
PREREQUISITE: PED 107 or Permission of Instructor
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.
- 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.
- 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.
- PED 119 GENERAL CONDITIONING (Intermediate) (2A) 1 credit**
PREREQUISITE: PED 118 or Permission of Instructor
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.
- PED 123 GOLF (Beginning) (2A) 1 credit**
This course emphasizes the fundamentals of golf. Topics include the proper grips, stance, alignment,

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	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.		
PED 124	GOLF (Intermediate) (2A) 1 credit PREREQUISITE: PED 123 or Permission of Instructor This course covers the more advanced phases of golf. Emphasis is placed on refining the fundamental skills and learning more advanced phases of the games 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.		
PED 125	SKATING (2A) 1 credit This course introduces the fundamentals of skating. Emphasis is placed on basic positioning, balance, and form. Upon completion, students should be able to demonstrate skills necessary for recreational skating.		
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.		
PED 127	ARCHERY (2A) 1 credit This course introduces basic archery safety and skills. Topics include proper techniques of stance, bracing, drawing, and releasing as well as terminology and scoring. Upon completion, students should be able to participate safely in target archery.		
PED 128	RACQUETBALL (2A) 1 credit This course introduces the fundamentals of racquetball. Emphasis is placed on rules, fundamentals, and strategies of beginning racquetball. Upon completion, students should be able to play recreational racquetball.		
PED 129	EQUITATION (2A) 1 credit This course is designed to give advanced riding experiences in a variety of specialized situations. Emphasis is placed on the development of skills such as jumping, rodeo games, and trail riding. Upon completion, students should be able to demonstrate control and management of the horse and perform various riding techniques.		
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 or Permission of Instructor 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 140	SWIMMING (Beginning) (2A) 1 credit This course is designed for non-swimmers and beginners. Emphasis is placed on developing confidence in the water, learning water safety, acquiring skills in floating and learning elementary strokes. Upon completion, students should be able to demonstrate safety skills and be able to tread water, back float, and use the crawl stroke for 20 yards.		
PED 141	SWIMMING (Intermediate) (2A) 1 credit PREREQUISITE: PED 140 or permission of instructor. This course is designed for those who have mastered basic swimming skills. Emphasis is placed on refining basic skills and learning new swim strokes. Upon completion, students should be able to demonstrate the four basic strokes, the scissors kick, the underwater swim, and other related skills.		
PED 142	SWIMMING (Advanced) (2A) 1 credit PREREQUISITE: PED 141 or permission of instructor. This course introduces lap swimming, aquacises, water activities, and games. Emphasis is placed on increasing cardiovascular efficiency through aquatic exercise. Upon completion, students should be able to develop an individualized aquatic fitness program.		
PED 143	AQUATIC EXERCISE (2A) 1 credit PREREQUISITE: PED 142 This course introduces rhythmic aerobic activities and aquatic exercises performed in water. Emphasis is placed on increasing cardiovascular fitness levels, muscular strength, muscular endurance, and flexibility. Upon completion, students should be able to participate in an individually paced exercise program.		
PED 147	W.S.I. (WATER SAFETY INSTRUCTION) (4A) 2 credits PREREQUISITE: PED 142 or Permission of Instructor This course prepares the student to serve as an American National Red Cross Safety Instructor. It includes a thorough review of swimming, lifesaving skills, all phases of water safety skills. This course must be taught by a qualified Water Safety Instructor Trainer. Upon completion, students should be able to demonstrate skills, knowledge and techniques to pass the American Red Cross Water Safety Instructor's certification. (For a student to be a certified lifeguard, the student must have current certification in Advanced Lifesaving, Standard First Aid and either the Red Cross or the American Heart Association CPR course).		

PED 148	LIFEGUARD TRAINING (6M) PREREQUISITE: PED 147 or Advanced Lifesaving Certification This course provides the individual with special training in handling emergencies, water-search and rescue operations, health and sanitation inspections and types and uses of equipment. It also includes standard First Aid and Red Cross or American Heart Association CPR requirements.	3 credits
PED 151	JUDO (Beginning) (2A) This course introduces the basic discipline of judo. Topics include proper breathing, relaxation techniques, and correct body positions. Upon completion, students should be able to demonstrate the procedures of judo.	1 credit
PED 152	JUDO (Intermediate) (2A) PREREQUISITE: PED 151 This course introduces more detailed aspects of the discipline of judo. Topics include breathing and physical postures, relaxation, and mental concentration. Upon completion, students should be able to demonstrate advanced procedures of judo.	1 credit
PED 153	KARATE (Beginning) (2A) This course introduces the martial arts using the Japanese Shotokan form. Topics include proper conditioning exercise, book control, proper terminology, historical foundations, and etiquette relating to karate. Upon completion, students should be able to perform line drill techniques and Kata for various ranks.	1 credit
PED 154	KARATE (Intermediate) (2A) PREREQUISITE: PED 153 This course is a continuation of beginning Karate. Topics include proper conditioning exercise, book control, proper terminology, historical foundations and etiquette relating to karate. Upon completion, students should be able to perform line drill techniques and Kata for various ranks.	1 credit
PED 155	SELF DEFENSE (2A) 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.	1 credit
PED 160	SOCIAL DANCE (2A) 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.	1 credit
PED 163	SQUARE DANCING (Beginning) (2A) 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.	1 credit

PED 164

SQUARE DANCING (Intermediate) (2A)
1 credit
PREREQUISITE: PED 163 or Permission of Instructor
This course includes additional variations and forms of square dancing. Topics include such routines as turns, grand swing, triple trades, wheel and deal, T-cup chain, and arky change. Upon completion, students should be able to demonstrate and perform country and western square dance routines.

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 or Permission of Instructor
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 or Permission of Instructor
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 178

SOCCER (Beginning) (2A)
1 credit
This course introduces the basics of soccer. Emphasis is placed on rules, strategies, and fundamental skills. Upon completion, students should be able to participate in recreational soccer.

PED 179

SOCCER (Intermediate) (2A)
1 credit
PREREQUISITE: PED 178 or Permission of Instructor
This course introduces the basics of soccer. Emphasis is placed on rules, strategies, advanced techniques, skills, and strategies. Upon completion, students should be able to participate in introductory competitive soccer.

PED 180

FLAG FOOTBALL (2A)
1 credit
This course introduces the fundamentals and rules of flag football. Emphasis is placed on proper techniques and strategies for playing in game situations. Upon

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	completion, students should be able to participate in recreational flag football.		
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 213	BASIC VOLLEYBALL RULES AND OFFICIATING TECHNIQUES (3T) 3 credits This course introduces the rules and techniques for sports officiating in high school volleyball. Emphasis is placed on officiating fundamentals and responsibilities. Upon completion, students should be able to demonstrate proper mechanics and knowledge of officiating procedures in volleyball.
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 214	ADVANCED VOLLEYBALL RULES AND OFFICIATING TECHNIQUES (3T) 3 credits PREREQUISITE: PED 213 This course presents advanced rules and techniques for sports officiating in high school volleyball. Emphasis is placed on officiating fundamentals and responsibilities. Upon completion, students should be able to demonstrate proper mechanics and knowledge of officiating procedures in volleyball.
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.	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 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 217	BASIC BASKETBALL RULES AND OFFICIATING TECHNIQUES (3T) 3 credits This course introduces the rules and techniques for sports officiating in high school basketball. Emphasis is placed on officiating fundamentals and responsibilities. Upon completion, students should be able to demonstrate proper mechanics and knowledge of officiating procedures in basketball.
PED 188	CROSS COUNTRY (2A) 1 credit		
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 218	ADVANCED BASKETBALL RULES AND OFFICIATING TECHNIQUES (3T) 3 credits This course presents advanced rules and techniques for sports officiating in high school basketball. Emphasis is placed on officiating fundamentals and responsibilities. Upon completion, students should be able to demonstrate proper mechanics and knowledge of officiating procedures in basketball.
PED 211	BASIC FOOTBALL RULES AND OFFICIATING TECHNIQUES (3T) 3 credits This course introduces the rules and techniques for sports officiating in high school football. Emphasis is placed on officiating fundamentals and responsibilities. Upon completion, students should be able to demonstrate proper mechanics and knowledge of officiating procedures in football.	PED 219	BASIC BASEBALL AND SOFTBALL RULES AND OFFICIATING TECHNIQUES (3T) 3 credits This course introduces the rules and techniques for sports officiating in baseball and softball. Emphasis is placed on officiating fundamentals and responsibilities. Upon completion, students should be able to demonstrate proper mechanics and knowledge of officiating procedures in baseball and softball.
PED 212	ADVANCED FOOTBALL RULES AND OFFICIATING TECHNIQUES (3T) 3 credits PREREQUISITE: PED 211 This course presents advanced rules and techniques for sports officiating in high school football. Emphasis is placed on officiating fundamentals and responsibilities. Upon completion, students should be able to demonstrate proper mechanics and knowledge of officiating procedures in football.	PED 220	ADVANCED BASEBALL AND SOFTBALL RULES AND OFFICIATING TECHNIQUES (3T) 3 credits PREREQUISITE: PED 219 This course presents advanced rules and techniques for sports officiating in baseball and softball. Emphasis is placed on officiating fundamentals and responsibilities. Upon completion, students should be able to demonstrate proper mechanics and knowledge

	of officiating procedures in baseball and softball.	
PED 226	HIKING (2A) This course provides instruction on how to equip and care for oneself 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.	1 credit
PED 227	ANGLING (2A) 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.	1 credit
PED 228	FIREARM SAFETY AND UTILIZATION (2A)	1 credit
PED 236	CANOEING (2A) 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.	1 credit
PED 239	OUTBOARDING BOATING AND SAFETY (2A)	1 credit
PED 245	CYCLING (2A) 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.	1 credit
PED 246	CAMPING (2A) 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.	1 credit
PED 251	VARSITY BASKETBALL I (2A) 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.	1 credit
PED 252	VARSITY BASEBALL I (2A) 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.	1 credit

PED 254	VARSITY SOFTBALL I (2A) 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.	1 credit
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PED 257	VARSITY CHEERLEADING (2A)	1 credit
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PHOTOGRAPHY AND FILM (PFC)

PFC 173	PHOTOGRAPHY I (2T, 2E) This course is an introduction to photography. Emphasis is placed on aesthetic as well as technical aspects of photography. Upon completion, student will be able to produce well composed photographs.	3 credits
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PFC 174	PHOTOGRAPHY II (2T, 2E) 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.	3 credits
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PFC 177	COLOR PHOTOGRAPHY (2T, 2E) 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.	3 credits
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PFC 178	AUDIO-VISUAL TECHNIQUES (1T, 2E) 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.	2 credits
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PFC 187	PHOTOGRAPHY, FILM, AND MEDIA I (1T, 2E) 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. 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.	2 credits
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- PFC 188 PHOTOGRAPHY, FILM, AND MEDIA II (1T, 2E) 2 credits**
PREREQUISITE: PFC 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.
- PFC 258 PHOTOGRAPHIC AND MEDIA PROBLEMS (1T, 2E) 2 credits**
 This course deals with special problems in the student's area of interest. Emphasis is placed on design, technique and results. Upon completion, the student will be able to produce professional quality photographs in one particular area of photography.
- PFC 273 STUDIO PHOTOGRAPHY I (2T, 2E) 3 credits**
 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.
- PFC 274 STUDIO PHOTOGRAPHY II (2T, 2E) 3 credits**
PREREQUISITE: PFC 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.
- PFC 276 FILMMAKING II (2T, 2E) 3 credits**
PREREQUISITE: ART 176 or Permission of Instructor
 This course is a continuation of the study of film production. Emphasis is on various aspects of filmmaking which may include design, special effects, digital and linear production techniques, and machine control. Upon completion, students should have hands-on experience and an understanding of professional filmmaking.
- PFC 277 FILMMAKING III (2T, 2E) 3 credits**
PREREQUISITE: PFC 276 or Permission of Instructor
 This course is a continuation of the study of film production. Emphasis is on various aspects of filmmaking which may include design, special effects, digital and linear production techniques, and machine control. Upon completion, students should have hands-on experience and an understanding of professional filmmaking.

PHILOSOPHY (PHL)

- PHL 106 INTRODUCTION TO PHILOSOPHY (3T) 3 credits**
 The purpose of this course is to familiarize the student with basic concepts of philosophy. Major ideas will be covered in a historical survey from the early Greeks to the modern era. The literary and conceptual approach of the course is balanced with emphasis on approaches to ethical decision-making and problem solving.

- PHL 116 LOGIC (3T) 3 credits**
 This course is designed to help students assess information and arguments. The focus of the course is on logic and reasoning. The student should be able to understand how inferences are drawn, be able to recognize ambiguities and logical and illogical reasoning.
- PHL 206 ETHICS AND SOCIETY (3T) 3 credits**
 This course is a systematic study of ethical systems as they apply to present-day living.
- PHL 210 ETHICS AND THE HEALTH SCIENCES (3T) 3 credits**
 This course is a study of ethical issues related to the health sciences such as contraception, abortion, and eugenics; human experimentation; truth in drugs and medicine; death and dying; and other health related issues. The student should be able to clarify relevant ethical considerations and have a philosophical basis for decisions on right and wrong, good and bad, rights and responsibilities.

PHYSICAL SCIENCE (PHS)

- PHS 111 PHYSICAL SCIENCE (3T, 2E) 4 credits**
 This course provides the non-technical student with an introduction to the basic principles of geology, oceanography, meteorology, and astronomy. Laboratory is required.
- PHS 112 PHYSICAL SCIENCE II (3T, 2E) 4 credits**
PREREQUISITE: MTH 098 Elementary Algebra
 This course provides the non-technical student with an introduction to the basic principles of chemistry and physics. Laboratory is required.
- PHS 120 ENVIRONMENTAL SCIENCE (3T, 2E) 4 credits**
 PHS 120 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.

PHYSICS (PHY)

- PHY 201 GENERAL PHYSICS I- TRIG BASED (3T, 2E) 4 credits**
FORMERLY: PHY 203
PREREQUISITES: MTH 104 or MTH 113 or Equivalent
 This course is designed to cover general physics at a level that assumes previous exposure to college algebra and basic trigonometry. Specific topics include mechanics, properties of matter and energy, thermodynamics, and periodic motion. Laboratory is required.

PHY 202	GENERAL PHYSICS II – TRIG BASED (3T, 2E) 4 credits FORMERLY: PHY 204 and PHY 205 PREREQUISITES: PHY 201 (Formerly PHY 203) This course is designed to cover general physics using college algebra and basic trigonometry. Specific topics include wave motion, sound, light, optics, electrostatics, circuits, magnetism and modern physics. Laboratory is required.
PHY 205	RECITATION IN PHYSICS I (1T) 1 credit One hour weekly purely for problem solving.
PHY 206	RECITATION IN PHYSICS II (1T) 1 credit One hour weekly purely for problem solving.
PHY 213	GENERAL PHYSICS WITH CALCULUS I (3T, 2E) 4 credits PREREQUISITES: MTH 125 or Permission of Instructor 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 PREREQUISITES: 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 216	RECITATION IN PHYSICS WITH CAL I (1T) 1 credit One hour weekly purely for problem solving.
PHY 217	RECITATION IN PHYSICS WITH CAL II (1T) 1 credit One hour weekly purely for problem solving.

PMC 104

PMC 105

PMC 108

PMC 112

on technical and industrial applications. Topics to include quadratic equations, variation, intro to geometry, polygon, triangles, circles, solid geometry, intro to trig functions, right triangles, graphics, and oblique triangles. Upon completion, students should be able to perform concepts of algebra, geometry and trigonometry.

ELEMENTARY STATISTICS (3T) 3 credits
PREREQUISITE: PMC 102 or MTH 103 or Higher

This course is an introduction to methods of statistics. Emphasis is on descriptive or applied statistics, with topics to include sampling, frequency distributions, measures of central tendency, graphic representation, reliability, hypotheses testing, regression, estimation, and applications. Probability, permutations, combinations, binomial theorem, random variables, and distributions may be included. Upon completion, students should be able to solve statistical problems and apply to interpreting data.

MEASUREMENTS (3T) 3 credits

This course is a study of the common units of measurement used in technical and industrial settings. Emphasis is placed on units, metric linear, surface, bulk motion, force, temperature, fluid and electrical measurements. Upon completion, students should be able to solve problems involving measurements.

FLUID POWER (3T) 3 credits

This course is a study of the basic principles of fluid power (hydraulics and pneumatics) and its application in industry. Emphasis is placed on a review of basic mechanics, basic science, fluids, pumps, actuators, fittings, seals, fluid selection, common circuits, and control systems. Upon completion, students should have an understanding of fluid power and its applications.

INDUSTRIAL BLUEPRINT READING (3T) 3 credits

This course is an introduction to the fundamental concepts required to develop the techniques and skills of visualization and interpretation of symbols and other representations commonly used in mechanical/manufacturing type drawings. Emphasis is placed on basic drafting language, orthographic projection, auxiliary views, types of drawings, freehand technical sketching, dimensions and tolerances, section views, pictorial drawings, data sections of a print, machine specifications, numerical control drawings, welding drawings, and geometric tolerancing. Upon completion, students should be able to read, understand and use blueprints.

PMC 114

MECHANICAL DRIVES AND BEARING (3T) 3 credits

This course is a survey course of the various mechanical drive systems and components used in industry. Emphasis is placed on application with topics to include couplings, alignment, belts and chains, gears, gear boxes, clutches, brakes, motors, types, plain, ball, roller, noodle, maintenance, principles of seals,

PRODUCTIVITY MANAGEMENT AND CONTROL TECHNOLOGY (PMC)

PMC 101	INDUSTRIAL MATHEMATICS I (3T) 3 credits This course covers the fundamental concepts of math and algebra with applications in technical and industrial settings. Emphasis is placed on number systems, fractions, percent, signed numbers, measurement system, powers and roots, algebra coverage, adding/subtracting simple equations, graphing, equations, exponents, logarithms and use of calculator. Upon completion, students should be able to perform fundamental concepts of math and algebra.
PMC 102	INDUSTRIAL MATHEMATICS II (3T) 3 credits PREREQUISITES: PMC 101 or MTH 103 or Higher This course is a continuation of PMC 101 and covers basic algebra, plane trigonometry. Emphasis is placed

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	dynamic, static, oil, rings, gaskets, and sealings. Upon completion, students should have an understanding of mechanical drives and bearings.		
PMC 116	LUBRICATION (2T) 2 credits This course is an introduction to the science of lubrication as it pertains to industrial applications. Emphasis is placed on basic science (friction, wear, and surfaces), properties of lubricants, viscosity, additives, and methods of application. Upon completion, student should have a basic knowledge of lubricants and their application.	PMC 125	INDUSTRIAL PROCESSES (2T) 2 credits This course is a comprehensive study of industrial processes particularly as they pertain to manufacturing operations. Emphasis is placed on inspection methods along with quality control and automation, with topics covering chip removing, chipless machines, forming and welding. Field trips to industry plants will supplement class work. Upon completion, students should have knowledge of industrial processes.
PMC 117	PUMPS AND PIPING SYSTEMS (3T) 3 credits This course is a survey of the various types of pumps and piping systems used in industry. Emphasis is placed on basic science, flow of fluids, types, applications, installation and operation of centrifugal, rotary, diaphragm and reciprocating. Types of pipe, materials, tubes, hoses, codes, fittings, traps, valves, strainers, supports and an intro to piping drawings are included. Upon completion, students should have knowledge of pumps and piping systems.	PMC 130	GEOMETRIC TOLERANCING AND FORM (1T) 1 credit This course is based on latest ANSI Y 14.5M standards. Geometric dimensioning and tolerancing is the system being used to assure precision and precision in industrial operations. Emphasis is placed on definitions, symbols used, form tolerancing, orientation tolerances and runout tolerancing, and interpretation of feature control blocks. Upon completion, students should have knowledge of geometric tolerancing.
PMC 120	TECHNICAL SKETCHING (1T, 2E) 2 credits This course is a study of understanding and application of graphic communications of technical information in an understandable and definitive method. Emphasis is placed on topics that will enable a person to convey verbal and numerical information that is neat, legible and proportioned. Topics shall include techniques to use, projections, proportions, views, dimensioning and tolerancing. Upon completion, students will have knowledge of graphic communications.	PMC 134	DIEMAKING (2T) 2 credits This course covers principles, theory, techniques, design and construction of basic and advanced types of dies used in manufacturing. Emphasis is placed on blanking and piercing dies, screw and dowel holes, die life, stripping, die to press relationships, inverted dies, compound dies and combination dies. Upon completion, students should have knowledge of diemaking.
PMC 123	MATERIALS AND PROCESSES (3T) 3 credits This course is a survey of the structure and properties of materials. Emphasis is placed on ferrous and non-ferrous metals, and selected industrial processes such as metal forming, heat treatments, metal cutting, drilling, reaming, boring, broaching, abrasive machining and welding processes. Upon completion, students should have knowledge of materials and processes as related to industry.	PMC 135	PRECISION MEASUREMENTS METROLOGY (3T) 3 credits This course is a study of the use and care of precision instruments and dimensional controls. Emphasis is placed on reasons and language of measurements, systems of measurements, graduated scales, scaled instrument, vernier instruments, micrometers, standards, gage blocks, use of comparators, pneumatic, electronics devices and use of optical flats. Upon completion, students should have knowledge of measurements of metrology.
PMC 124	INDUSTRIAL MATERIALS (3T) 3 credits This course is a study of the theory of structure and properties of industrial materials. Emphasis is placed on the use and selection of industrial materials, with topics to include metals (ferrous and non-ferrous), plastics, elastomers, ceramics, and composites. Also included are those processes involved with materials such as hot & cold rolling and heat treating. Chemical structure and change is covered in heat treating. Upon completion, students should have knowledge of industrial materials.	PMC 136	SHOP THEORY I (1T, 2E) 3 credits This course is an introduction to industrial machine tools and their applications. Emphasis is placed on machine set-ups, handtools, cutting tools, speeds and feeds, drilling machines, measuring and gaging. Upon completion, students will have a basic knowledge of machine tools and their applications.
		PMC 137	SHOP THEORY II (1T, 2E) 3 credits This course is a continuation of PMC 136. Emphasis is placed on operations of various machine tools including lathe, shapers, milling machines, borer and grinders. Upon completion, students will have an advanced knowledge of machine tools and their application.
		PMC 155	STATISTICAL QUALITY CONTROL (SQC) (3T) 3 credits PREREQUISITE: MTH 112 or Higher This is an in-depth course of study in various types of

control charts, rationalizing subgroups, analyzing variations and procedures for applying statistical techniques. Upon completion, a student should be able to apply knowledge to solving quality control type problems.

PMC 158 INTRODUCTION TO STATISTICAL PROCESS CONTROL (SPCI) (2T) 2 credits
PREREQUISITE: PMC 102 or Higher

This is an introductory course in preparing various types of control charts for analysis and control of processes. Emphasis is placed on descriptive statistics, X-R charts, median range charts and variability and attribute charts. Use of charts for problem solving and analysis are included. Upon completion, students should have knowledge of statistical process control.

PMC 163 PROBLEM SOLVING AND DECISION MAKING TECHNIQUES (2T) 2 credits

This course is a study of the various decision making concepts and their application to productive processes and service to make logical decisions. Emphasis is placed on brain-storming, cause and effect diagrams, pareto charts, and use of graphs. Upon completion, students should be able to solve problems and make decisions related to industry needs.

PMC 180 BASIC ELECTRICITY AND ELECTRONICS I (3T) 3 credits
PREREQUISITE: PMC 101

This course is designed for the person who needs an understanding of electrical/electronic fundamentals and principles. Emphasis is placed on electrical theory and science, devices, magnetism and electromagnetism, circuit analysis of resistive, capacitive, resonance and tuned circuits. Upon completion, students will have knowledge of basic electricity and electronics for industry use.

PMC 182 FUNDAMENTALS OF ROBOTICS (2T) 2 credits

This is a survey course of what Robots do, how they operate, and how they are integrated into automated manufacturing. Emphasis is placed on terminology, classification, and principles of operations are covered. Programming and teaching methods are included. Upon completion, students will have knowledge of how robotics is used in industry.

PMC 195 INDUSTRIAL HEALTH AND SAFETY (3T) 3 credits

This course is designed to provide a comprehensive coverage of safety practices and the relationship between safety and human relations. Emphasis is placed on accident losses, legislation, OSHACT, practices, investigations, hazards: falls, impacts, mechanical, electrical, pressure, fire, explosions, noise, and radiation. Upon completion, students should have knowledge of health and safety practices needed in an industrial environment.

PMC 202 APPLIED FLUID MECHANICS (3T) 3 credits
PREREQUISITE: PMC 102 or higher

This course is an introduction to behavior of fluids

(liquid and gas) in static and dynamic condition in various systems. Emphasis is placed on S1 Metric review, fluid metrology, fluid properties, statics, flow, momentum and reaction and lubrication principles. Upon completion, students will have knowledge of fluids.

POLITICAL SCIENCE (POL)

POL 103 CURRENT AFFAIRS (2T) 2 credits
PREREQUISITE: Permission of Instructor

This course sequence is designed to acquaint students with major issues and problems of contemporary society through examination of current events. Emphasis is placed on topics which contribute to student awareness of historical development and political significances of selected contemporary issues. Upon completion, students should be able to identify and explain factors in the historical development of, explain political significances of, and express informed judgments about selected contemporary social and political issues.

POL 104 CURRENT AFFAIRS (2T) 2 credits
PREREQUISITE: Permission of Instructor

This course sequence is designed to acquaint students with major issues and problems of contemporary society through examination of current events. Emphasis is placed on topics which contribute to student awareness of historical development and political significances of selected contemporary issues. Upon completion, students should be able to identify and explain factors in the historical development of, explain political significances of, and express informed judgments about selected contemporary social and political issues.

POL 105 CURRENT AFFAIRS (2T) 2 credits
PREREQUISITE: Permission of Instructor

This course sequence is designed to acquaint students with major issues and problems of contemporary society through examination of current events. Emphasis is placed on topics which contribute to student awareness of historical development and political significances of selected contemporary issues. Upon completion, students should be able to identify and explain factors in the historical development of, explain political significances of, and express informed judgments about selected contemporary social and political issues.

POL 106 CURRENT AFFAIRS (3T) 3 credits
PREREQUISITE: Permission of Instructor

This course is a study of contemporary world events as reflected in current media reports. Emphasis is placed on topics of current significance as news or human interest events on the national and international levels. Upon completion, students should be able to identify and explain factors involved with, explain political significances of, and express informed judgments about selected contemporary social and political issues.

Course Descriptions

- POL 200 INTRODUCTION TO POLITICAL SCIENCE (3T) 3 credits**
PREREQUISITE: Permission of Instructor
 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 system.
- POL 230 COMPARATIVE GOVERNMENT (3T) 3 credits**
 This course introduces comparative analysis of political systems. Emphasis is placed on institutions and processes of contemporary national political systems in selected democratic industrial nations. Upon completion, students should be able to compare and contrast the organization, institutions, and processes of major types of governmental systems of the world.
- POL 236 SURVEY OF INTERNATIONAL RELATIONS (3T) 3 credits**
PREREQUISITE: Permission of Instructor
 This course is a survey of the basic forces affecting international relations. Topics include bases of national power, balance of power, causes of war, the international political economy, international law, international organization, and possible futures of

international relations. Upon completion, students should be able to identify and discuss relevant terms and concepts and identify, analyze, evaluate and discuss the primary factors influencing the international relations of selected states.

- POL 240 POLITICAL THEORY (3T) 3 credits**
PREREQUISITE: Permission of Instructor
 This course is an introduction to political theory through examination of philosophical concepts related to development of modern political ideologies. Emphasis is placed on selected sources of political philosophies. Upon completion, students should be able to identify selected political concepts and associated philosophers, and define, analyze, and explain major tenets of selected ideologies.
- POL 299 DIRECTED STUDIES 1-3 credits***
PREREQUISITE: Recommendation of Instructor and Approval of Department Chairperson
 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.

PARALEGAL (PRL)

- PRL 101 INTRODUCTION TO PARALEGAL STUDY (3T) 3 credits**
 This course introduces the paralegal profession and the legal system. Topics include regulations and concepts, ethics, case analysis, legal reasoning, career opportunities, certification, professional organizations, and other 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.
- PRL 102 BASIC LEGAL RESEARCH AND WRITING (2T, 2E) 3 credits**
FORMERLY: PRL 205
CO/PREREQUISITE: PRL 101
 This course introduces the techniques of legal research and writing. Emphasis is placed on locating, analyzing, applying, and updating sources of law; effective legal writing, including proper citation; and the use of electronic research methods. Upon completion, students should be able to perform legal research and writing assignments using techniques covered in the course.

PRL 103	ADVANCED LEGAL RESEARCH AND WRITING (2T, 2E) 3 credits FORMERLY: PRL 206 PREREQUISITE: PRL 102 This course covers advanced topics in legal research and writing. Topics include more complex legal issues and assignments involving preparation of legal memos, briefs, and other documents and the advanced use of electronic research methods. Upon completion, students should be able to perform legal research and writing assignments using techniques covered in the course.	PRL 192	SELECTED TOPICS IN PARALEGAL (3T) 3 credits 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 should be able to demonstrate an understanding of the specific area of study.
PRL 130	CIVIL INJURIES AND LITIGATION (3T) 3 credits FORMERLY: PRL 103 This course covers traditional tort concepts and the evolving body of individual rights created by statute. It introduces the structure of the legal system, the rules governing civil litigation, and the paralegal's role in the civil litigation process. Topics include intentional and non-intentional torts with emphasis on negligence, strict liability, civil rights, workplace and environmental liability, remedies, and damages. Other topics include investigation, interviewing, pleadings, motions, discovery, and trial and appellate procedures. Upon completion, students should be able to recognize, explain, and evaluate elements of civil injuries and related defenses and should be able to assist an attorney in the preparation of a civil case.	PRL 210	INTRODUCTION TO REAL PROPERTY LAW (2T) 2 credits This course introduces the study of real property law. Topics include the distinction between real and personal property, various estates, mechanics of conveyance and encumbrance, recordation, special proceedings, and other related topics. Upon completion, students should be able to identify estates, forms of deeds, requirements for recording, and procedures to enforce rights to real property.
PRL 150	COMMERCIAL LAW (2T, 2E) 3 credits This course covers legally enforceable agreements, forms of organization, and selected portions of the Uniform Commercial Code. Topics include drafting and enforcement of contracts, leases and related documents and selection and implementation of business organization forms, sales, and commercial papers. 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 211	REAL PROPERTY LAW (1T, 4E) 3 credits PREREQUISITE: PRL 210 This course continues the study of real property law relating to title examination and preparation of closing documents. Topics include use of courthouse and other public records in title examination and preparation of documents required in real estate transactions and closing. Upon completion, students should be able to plot/draft a description, perform complete title examination, draft closing documents including title insurance forms, and prepare disbursement reconciliation. (Students may substitute RLS 125.)
PRL 160	CRIMINAL LAW AND PROCEDURE (2T, 2E) 3 credits This course introduces substantive criminal law and procedural rights of the accused. Topics include elements of state/federal crimes, defenses, constitutional issues, pre-trial process, and other related topics. Upon completion, students should be able to explain elements of specific crimes and assist an attorney in preparing a criminal case. (Students may substitute CRJ 140.)	PRL 220	CORPORATE LAW (3T) 3 credits This course covers the legal aspects of forming, operating, and maintaining a business. Emphasis is placed on the business corporation with additional coverage of sole proprietorships and partnerships. Upon completion, students should be able to draft basic partnership and corporate documents and file these documents as required.
PRL 170	ADMINISTRATIVE LAW (3T) 3 credits FORMERLY: PRL 102 This course covers the scope, authority, and regulatory operations of various federal, state, and local administrative agencies. Topics include social security, workers' compensation, unemployment, zoning and other related topics. Upon completion, students should be able to research sources of administrative law, investigate, and assist in representation of clients before administrative agencies.	PRL 230	DOMESTIC LAW (3T) 3 credits FORMERLY: PRL 104 This course covers laws governing domestic relations. Topics include marriage, separation, divorce, child custody, support, property division, adoption, domestic violence, and other related topics. Upon completion, students should be able to interview clients, gather information, and draft documents related to family law.
PRL 170	ADMINISTRATIVE LAW (3T) 3 credits FORMERLY: PRL 102 This course covers the scope, authority, and regulatory operations of various federal, state, and local administrative agencies. Topics include social security, workers' compensation, unemployment, zoning and other related topics. Upon completion, students should be able to research sources of administrative law, investigate, and assist in representation of clients before administrative agencies.	PRL 240	WILLS, ESTATES, AND TRUSTS (2T, 2E) 3 credits FORMERLY: PRL 201 This course covers various types of wills, trusts, probate estate administration, and intestacy. Topics include types of wills and execution requirements, caveats and dissents, intestate succession, inventories and accountings, distribution and settlement, and other related topics. Upon completion, students should be able to draft simple wills, prepare estate forms, understand administration of estates including

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taxation, and explain terms regarding trusts.

PRL 250 BANKRUPTCY AND COLLECTIONS (3T) 3 credits
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 270 WORKERS' COMPENSATION LAW (2T) 2 credits
This course covers the process of initiating and handling workers' compensation claims. Emphasis is placed on reviewing and drafting relevant Industrial Commission forms. Upon completion, students should be able to interview clients, gather information, and draft documents related to workers' compensation claims.

PRL 282 LAW OFFICE MANAGEMENT AND PROCEDURES (2T, 2E) 3 credits
This course focuses on the organization, function, practices and procedures of a law office. Emphasis is placed on basic law office management, including office layout, personnel, equipment and supplies, filing systems, scheduling and docket control; as well as the creation, preparation, organization and processing of pleadings, forms, briefs and other legal documents. Upon course completion, students should be able to demonstrate and apply appropriate law office management techniques and procedures.

PRL 291 INTERNSHIP IN PARALEGALISM (15M) 3 credits
FORMERLY: PRL 290
PREREQUISITE: PRL 101, PRL 102 PRL 130, and Permission of Instructor
This course provides students opportunities to work in paid or unpaid positions in which they apply paralegal skills and knowledge. Upon course completion, students should be able to apply in real-work settings competencies obtained in the PRL curriculum.

POLYSOMNOGRAPHIC TECHNOLOGY (PSG)

PSG 120 PRINCIPLES AND PRACTICES OF HEALTH CARE (3T) 3 credits
PREREQUISITE: Permission of Instructor
This course introduces the principles of health care organization, medical terminology, and interdepartmental relations with sleep centers. Emphasis is placed on the organization of hospital care systems, introduction to sleep disorders, polysomnographic procedures, sleep clinic, coping with physical illness, psychology of health care, customer driven market, and communicating with sleep patients. Upon completion, students should be able to effectively interact

with sleep patients and understand the role of sleep centers in a health care organization.

PSG 130 EMERGENCY CARE FOR SLEEP CENTER PATIENTS (1T, 3S) 2 credits
PREREQUISITE: Permission of Instructor
This course provides understanding of emergency policies and procedures for patients in a sleep center. Emphasis is placed on emergency care in the sleep center and emergency response plans. Upon completion, students should be able to respond appropriately to emergency situations such as cardiac arrest, seizures, and other changes in patient status as well as fire and disaster emergencies.

PSG 140 PSG DATA TABULATION AND INTERPRETATION (3T, 5L) 5 credits
COREQUISITE: PSG 219, PSG 220, PSG 221
PREREQUISITE: PSG 201 and PSG 211, BIO 201 and BIO 202
This course is designed to provide basic and specialized principles of record scoring and data tabulation of normal and abnormal sleep recordings. Emphasis is placed on introduction to scoring the polysomnogram, adult sleep staging, tabulating respiratory events, artifact, infant scoring, and calculating sleep parameters, CPAP/BIPAP, NPT tabulations, and periodic limb movement tabulations. Upon completion, students should be able to utilize key terms relating to the polysomnogram to adequately tabulate sleep stages and respiratory events in the evaluation process of sleep disorders.

PSG 201 POLYSOMNOGRAPHIC INSTRUMENTATION (2T, 6S) 4 credits
PREREQUISITE: PSG 120 and PSG 130 and Admission to Program
This course is designed to introduce theory, application, and integration of polygraphs, and the purpose and function of ancillary equipment used during sleep disorders testing, data tabulation, treatment, and future trends in instrumentation. Emphasis is placed on the polygraph, instrumentation and applied electronics, maintenance and repair, monitoring physiologic parameters, CPAP treatment, oxygen therapy, and polysomnographic procedures. Upon completion, students should be able to utilize basic concepts of polygraphic instrumentation.

PSG 211 POLYSOMNOGRAPHIC PROCEDURES I (1T, 5P5) 2 credits
COREQUISITE: PSG 201
PREREQUISITE: PSG 120, and PSG 130, or PSG 201
This course is designed to enhance understanding and retention of concepts by application while learning and performing skills which require physical coordination and manual dexterity. Emphasis is placed on application of concepts of data tabulation, emergency care, and polysomnographic policies and procedures. Upon completion, students will be able to perform specific task competencies required for successful program completion.

PSG 219	<p>PSG ANATOMY AND PHYSIOLOGY (3T) 3 credits</p> <p>COREQUISITE: PSG 220, PSG 140, PSG 221</p> <p>PREREQUISITE: BIO 201 and BIO 202, PSG 211, PSG 201</p> <p>This course reviews the anatomy and physiology of cardiopulmonary, central nervous, gastrointestinal, and genitourinary systems in relationship to the sleep/wake cycle and sleep disorders. Topics include electrocardiograph, neurologic function, arterial blood gases, respiratory function and chronobiology. Upon completion of this course, the student will be able to explain the anatomy and physiology of reviewed systems related to the sleep/wake cycle and sleep disorders.</p>	PSG 230	<p>DATA TABULATION AND INTERPRETATION OF NEURODIAGNOSTICS (1T, 6S) 3 credits</p> <p>COREQUISITE: PSG 222, PSG 240, PSG 241, PSG 251</p> <p>PREREQUISITE: PSG 140, PSG 219, PSG 220, PSG 221</p> <p>This course provides principles of processing neurodiagnostics recordings and recognition of normal, abnormal, and artifactual records. Emphasis is placed on instrumentation, neuroanatomy, 10/20 measurement system, polarity, montages, and calibration. Upon completion, student will be able to recognize abnormal and artifactual activity on polygraphic recordings.</p>
PSG 220	<p>SLEEP/WAKE PATHOPHYSIOLOGY (3T) 3 credits</p> <p>COREQUISITE: PSG 140, PSG 219 and PSG 221</p> <p>PREREQUISITE: BIO 201, BIO 202, PSG 201, PSG 211</p> <p>This course studies the etiology and treatment of sleep/wake cycle and related disorders in the context of the interrelationships of various systems as well as learning the diagnostic categories of sleep/wake disorders. Topics include Dyssomnias, Parasomnias, sleep-disordered breathing, CPAP therapy, surgical and other treatments for disorders. Upon completion, the student will be able to recognize the manifestations of sleep disorders, classify and state the appropriate treatment for those disorders.</p>	PSG 240	<p>SLEEP DISORDERS SEMINAR (2T) 2 credits</p> <p>COREQUISITE: PSG 222, PSG 230, PSG 241, PSG 251</p> <p>PREREQUISITE: PSG 140, PSG 219, PSG 220, PSG 221</p> <p>This course provides understanding of policy and procedure development and explains the methodology for the development of performance of clinical research projects in a sleep center. Topics include departmental policies and procedures, journal reporting, research articles, case reports, and evaluation of instrumentation. Upon completion, the student will be able to generate a comprehensive polysomnographic procedure, inservice others on that procedure, and present a specific topic related to sleep medicine.</p>
PSG 221	<p>POLYSOMNOGRAPHIC PROCEDURES II (1T, 15P5) 4 credits</p> <p>COREQUISITE: PSG 140, PSG 219, PSG 220</p> <p>PREREQUISITE: BIO 201 and BIO 202, PSG 201, PSG 211</p> <p>This course is designed to enhance understanding and retention of concepts while learning and performing skills which require physical coordination and manual dexterity. Emphasis is placed on application of concepts of polysomnographic instrumentation and differential diagnosis of diseases. Upon completion, student will be able to perform specific task competencies required for successful program completion.</p>	PSG 241	<p>MANAGEMENT OF A SLEEP DISORDER CENTER (2T) 2 credits</p> <p>COREQUISITE: PSG 222, PSG 230, PSG 240, PSG 251</p> <p>PREREQUISITE: PSG 140, PSG 219, PSG 220, PSG 221</p> <p>Introduces theories of supervision and leadership, organizational structure, logistics and standards of a sleep disorders center. Topics include basic management concepts, human resources, standards of accreditation, marketing and public relations, customer service, and resume writing. Upon completion, the student will be able to relate the managerial requirements for opening and operating a sleep disorders center.</p>
PSG 222	<p>PHARMACOLOGY FOR SLEEP DISORDERS (2T) 2 credits</p> <p>COREQUISITE: PSG 230, PSG 240, PSG 241, PSG 251</p> <p>PREREQUISITE: PSG 140, PSG 219, PSG 220, PSG 211</p> <p>This course introduces the general principles of pharmacology, and studies the pharmacology of drug groups that affect the neurologic, cardiorespiratory, and sleep/wake systems. Focus is placed upon the effects of drug groups upon sleep and the optimum medications used to treat various sleep disorders. Upon completion, students will be able to analyze and explain the polysomnographic features associated with pharmacologic agents and appropriate therapeutic agents for treatment of sleep disorders.</p>	PSG 251	<p>POLYSOMNOGRAPHIC PROCEDURES III (1T, 20P5) 5 credits</p> <p>COREQUISITE: PSG 222, PSG 230, PSG 240, PSG 241</p> <p>PREREQUISITE: PSG 140, PSG 219, PSG 220, PSG 221</p> <p>The course is designed to enhance understanding and retention of concepts by application while learning and performing skills which require physical coordination and manual dexterity. Emphasis is placed on overnight and daytime polysomnographic procedures. Upon completion, student will be able to perform specific task competencies required for successful program completion.</p>

Course Descriptions

PSYCHOLOGY (PSY)

PSY 100 ORIENTATION (1T) 1 credit
FORMERLY: ORI 100
 This course is designed to introduce the student to college life, responsibilities, rules and regulations.

PSY 102 APPLIED PSYCHOLOGY (2T) 2 credits
 This course introduces the basic principles of psychology as they apply to daily life. Topics include perception, emotions, motivation, adjustment, behavior management, communication, and related topics that promote growth and development on the job and in one's personal life. Upon completion, students should be able to apply the principles learned in this class to everyday living and on-the-job experiences.

PSY 106 CAREER EXPLORATION (1T) 1 credit
 This course is designed for students to explore potential career fields. The course includes an assessment, thorough testing of strengths and weaknesses, general information about careers and job skills, value and decision making techniques, and career research.

PSY 107 STUDY SKILLS (1T) 1 credit
 In this course, emphasis is placed on the skills of "how to study." The course introduces the student to effective techniques for listening in class, note taking, preparation for test taking, and an overall system of successful study.

PSY 110 PERSONAL DEVELOPMENT (3T) 3 credits
 This is a structured group experience that emphasizes effective living through developing one's own internal resources. Topics included are self-programmed control, relaxation training, and inter-personal skills. The course is designed to translate other life skills into successful college adjustment. Study skills, library skills, and life planning are also discussed. This course may not transfer to some four-year institutions.

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 207 PSYCHOLOGY OF ADJUSTMENT (3T) 3 credits
 This course provides an understanding of the basic principles of mental health and an understanding of the individual modes of behavior.

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
 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 212 ADOLESCENT PSYCHOLOGY (3T) 3 credits
PREREQUISITE: PSY 200
 This course covers a systematic study of the behavior and psychological development of the adolescent from late childhood to early adulthood. Emphasis will be placed on principles underlying physical, mental, emotional, and social development.

PSY 216 ADULT PSYCHOLOGY (3T) 3 credits
PREREQUISITE: PSY 200
 This course covers a systematic study of the behavior and psychological development of the adult. Emphasis will be placed on principles underlying physical, mental, emotional and social development.

PSY 217 PSYCHOLOGY OF DEATH AND DYING (3T) 3 credits
 This course is a study of the special psychological adjustments surrounding the issue of death and dealing with the terminally ill.

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 240 EDUCATIONAL PSYCHOLOGY (3T) 3 credits
PREREQUISITE: PSY 200
 This course is a study of psychological theories and principles as applied to the educational process.

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 270 BUSINESS AND INDUSTRIAL PSYCHOLOGY (3T) 3 credits
PREREQUISITE: Permission of Instructor

This course is a study of interpersonal relations in the working environment, interpersonal communications, and techniques for selection and supervision of personnel.

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.

PSY 280 BRAIN, MIND AND BEHAVIOR (3T) 3 credits
PREREQUISITE: PSY 200

This course is a comprehensive study of the human brain and its functions.

QUALITY CONTROL TECHNOLOGY (QCT)

QCT 101 INTRODUCTION TO QUALITY (3T) 3 credits

This course covers the total quality system, management strategies for quality, the difference between quality control and quality assurance, and the interdependence of systems and processes. Emphasis is placed on consumer demand for quality, establishing the quality system, organizing and achieving total commitment, the use of surveys, complaints, and how to use information to compete for additional market share. Upon completion, the student should understand the importance of customers and know how to gain an understanding of the customer's wants and needs and develop customer loyalty.

QCT 102 STATISTICS I FOR QUALITY CONTROL (3T) 3 credits
FORMERLY: QCT 103

This course introduces elementary probability and statistics. Topics include basic laws of probability, developing histograms, understanding basic discrete and continuous probability density functions, use of the calculator, variability, descriptive statistics, normal distributions, samples, and populations. Upon completion of this course the student should be able to understand and apply elementary probability and statistical tools to the area of quality.

QCT 103 STATISTICAL PROCESS CONTROL (3T) 3 credits
FORMERLY: QCT 202
PREREQUISITE: QCT 102 or BUS 271

This course is an introduction to the development of attribute and variable control charts. Topics include problem identification, solution by application of

QCT 104 INSPECTION PLANNING AND METROLOGY (3T) 3 credits

FORMERLY: QCT 204

PREREQUISITE: QCT 102

This course is a study of the mathematics of measurement systems. Topics include the inspection, function, quality requirements for inspection, types of inspection, survey of inspection tools used in the trade, ethics, measurement systems, history of inspection techniques, and technology advances. Students will learn how to conduct gage capability studies and understand the sources of measurement error.

QCT 105 FACILITATOR TRAINING (2T, 3M) 3 credits
FORMERLY: QCT 180

This course is designed to teach participants how to use facilitation and communication techniques to obtain group consensus in the solution of a problem. Topics covered include differences between a team leader and facilitator, conflict management, identifying facilitation strategies, sending and receiving messages in a work environment, giving feedback in the work group, sharing information, and reaching consensus within the cross functional team structure. Upon completion of this applied course, the student should have a basic understanding of the skills needed to facilitate the interactive process of the Total Quality Leadership Team.

QCT 202 STATISTICS II FOR QUALITY CONTROL (3T) 3 credits

FORMERLY: QCT 201

PREREQUISITE: QCT 102, BUS 271 or MTH 265

This course is a continuation of QCT 102, Statistics I. Topics include probability density functions, acceptance sampling by attributes and variables, regression and correlation, and an introduction to experimental design. Upon completion, the student should have an understanding of the basic statistical tools used in the field of quality.

QCT 204 AUDITING (3T) 3 credits
FORMERLY: QCT 203

The focus of this course is how to audit a quality system. Topics include types of audits, establishing the audit team, data that is required, documentation required, how and what statistical data is useful, corrective action, improvement through audit processes, and current industry auditing standards. Upon completion, the student should be able to identify practical uses of audits and audit results.

Course Descriptions

- QCT 205** **CONTINUOUS IMPROVEMENT TECHNIQUES (3T)** **3 credits**
FORMERLY: QCT 120
 This course introduces the problem solving process and problem solving tools such as Pareto charts, flow charts, brainstorming, histograms, cause and effect diagrams, simple graphical methods, and diagnostic graphing techniques. A basic plan-do-study-act cycle which instills system alignment and system improvement concepts is used as the course framework and benchmarking and practical applications of root cause analysis will be introduced. Upon completion, students should be able to apply several problem-solving tools.
- QCT 206** **QUALITY PRACTICES AND APPLICATION (3T)** **3 credits**
FORMERLY: QCT 222
 This course provides an overview of Total Quality Management (TQM) and its application to the workplace. Included is a discussion of the history of TQM, problem solving tools, developing and managing effective teams, leadership skills, elements of empowerment, and commitment to quality. Upon completion, the student should be able to work through exercises demonstrating the concepts of Total Quality Management.
- QCT 207** **SEMINAR IN QUALITY TECHNOLOGY (3T)** **3 credits**
 This course is designed to cover topics of current interest in the area of quality. Topics include such areas of current interest as ethics, current industry standards, software, and other timely topics of concern. Upon completion, the student should be aware of the topics of current interest and concern in the area of quality.
- QCT 208** **RELIABILITY FOR THE TECHNOLOGIES (3T)** **3 credits**
 This course provides an overview of reliability for the technologies. Topics include Failure Modes and Effects Analysis (FMEA), failure rates and mean time between failures, reliability, availability, life cycle costs, maintainability, safety, benchmarking, supplier quality, and software quality. Upon completion, the student should be able to identify the elements necessary to achieve reliability.



- QCT 209** **DESIGN OF QUALITY PROGRAMS (3T)** **3 credits**
FORMERLY: QCT 160
 This course provides an overview of International Standards for Quality System Management. Emphasis is on design implementation and maintenance of quality programs such as ISO 9000, Baldrige criteria, and other current standards. Upon completion, the student should be able to identify the elements necessary for the design, implementation, and maintenance of a quality system.

READING (RDG)

- RDG 085** **DEVELOPMENTAL READING III (3T)** **3 credits**
PREREQUISITE: Appropriate placement score or Permission of Instructor
 This course is designed to assist students whose placement test scores indicate serious difficulty with decoding skills, comprehension, vocabulary, and study skills.

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 101** **SURVEY OF CHURCH HISTORY I (3T)** **3 credits**
 This is the first course in a sequence of two courses which is a study of the growth and development of the church from the New Testament to the Reformation.
- REL 102** **SURVEY OF CHURCH HISTORY II (3T)** **3 credits**
 This course is the second in a sequence of two courses which is a study of the growth and development of the church from the Reformation to the present day.
- REL 106** **CHRISTIAN DOCTRINES (3T)** **3 credits**
 This course is a comparative study of church doctrines. The student should have an understanding of the various doctrines of the church.
- REL 107** **INTRODUCTION TO CHRISTIAN LIVING (3T)** **3 credits**
 This course is a study of the categories of Christian ethics. Attention is given to the social institutions and how Christian ethics are applied to these institutions. The student should have an understanding of the ethical decisions of Christian living.

REL 108	INTRODUCTION TO PREACHING MINISTRY (3T) 3 credits This course is a study of the meaning of preaching and the importance of the sermon. Included in the course is an introduction to the textual and topical resources for sermons. The student should understand and be able to prepare sermons.
REL 109	TEACHING IN THE CHURCH (3T) 3 credits This course is a study of methods designed to improve teaching in the church. It addresses the meaning, methods and material that are effective in teaching in a church environment. The student should be able to develop a church curriculum upon completion of this course.
REL 116	CHURCH ADMINISTRATION (3T) 3 credits This course is a comparative study of various types of church administration. The student should have an understanding of the various types of church administration.
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 120	LIFE AND TEACHING OF JESUS (3T) 3 credits This course is a study of the teaching of Jesus as recorded in the Gospels, covering an examination of major events in his life in light of modern Biblical and historical scholarship. The student should have knowledge of Jesus' life and the application of his teachings to modern life. Emphasis in the course is given to the reading and interpretation of the gospels and on other ancient and modern source material.
REL 151	SURVEY OF THE OLD 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.
REL 152	SURVEY OF THE NEW TESTAMENT (3T) 3 credits This course is a survey of the books of the New Testament, with special attention focused on the historical and geographical setting. The student should have an understanding of the books of the New Testament and the cultural and historical events associated with these writings.
REL 166	BIBLICAL BACKGROUND (3T) 3 credits This course is a contemporary overview of Biblical lands. The student should have an understanding of the geographical and cultural context of the lands associated with the Bible.

REL 206	HISTORY OF AMERICAN CHRISTIANITY (3T) 3 credits This course is an attempt to understand the complex character of American churches and sects, their origin and development.
REL 240	PSYCHOLOGY OF RELIGION (3T) 3 credits This course is a study in personal adjustment and self-understanding in a religious context.
REL 250	INTRODUCTION TO PASTORAL CARE (3T) 3 credits This course is an introduction to the role and function of pastoral counseling. The student should have a basic understanding of the various tasks of a pastoral counselor.

REAL ESTATE (RLS)

RLS 101	REAL ESTATE PRINCIPLES (4T) 4 credits This is an introductory real estate course providing the necessary terminology, background, and understanding of real estate principles. Topics include history of property ownership, real estate finance, real estate law, and the mechanics of listing and closing the sale. It is designed to assist those preparing for the real estate salesman's licensing examination in Alabama.
RLS 110	REAL ESTATE FINANCE (3T) 3 credits FORMERLY: RLS 115 PREREQUISITE: RLS 101 This course provides an analysis of money markets, with special emphasis on real estate financing. Topics include interest rates, lending policies, problems and rules in real estate financing of real property.
RLS 116	REAL ESTATE APPRAISAL CERTIFICATION (4T) 4 credits FORMERLY: RLS 121 PREREQUISITE: RLS 101 This is an introductory course providing the foundation of real estate appraisal. Topics include site and physical factors; effects of the money and capital markets; methodologies used to value property; and how to present and evaluate the appraisal report.
RLS 125	REAL ESTATE LAW (3T) 3 credits This course deals with the Alabama real estate law. Emphasis is placed on such areas as real property and zoning easements, titles, deeds, recording practices, contracts, mortgages, and law.
RLS 140	INDEPENDENT STUDY IN REAL ESTATE (1-3T) 1-3 credits This course allows a student to pursue independent studies in the real estate field. Projects and/or topics may be assigned by the instructor or designed by the student, with instructor's approval.
RLS 190	REAL ESTATE WORKSHOP (1-3T) 1-3 credits These workshops consist of presentations of current

Course Descriptions

topics of interest to those employed in the real estate industry. They can be developed to meet the continuing education requirements of the real estate professional. They are offered upon demand.

- RLS 205 PROPERTY MANAGEMENT (3T) 3 credits**
This course includes principles and practices of property management. Emphasis is placed on residential, business, industrial, and investment properties.

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**
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 210 SOCIAL PROBLEMS (3T) 3 credits**
The course examines the social and cultural aspects, influences, incidence and characteristics of current social problems in light of sociological theory and research.
- SOC 246 WOMEN IN A CHANGING SOCIETY (3T) 3 credits**
This course explores the role of the contemporary woman and the changing family and the world of work.
- 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 1-3 credits**
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**
FORMERLY: SPA 103
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**
FORMERLY: SPA 104 and SPA 105
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**
FORMERLY: SPA 203
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**
FORMERLY: SPA 205
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 COMMUNICATION (SPH)

- SPH 103 ORAL COMMUNICATION SKILLS (2T) 2 credits**
This course introduces the basic concepts of interpersonal communication and the oral communication skills necessary to interact with co-workers and customers, and to work effectively in teams. Topics include overcoming barriers to effective communication, effective listening, applying the principles of persuasion, utilizing basic dynamics of group discussion, conflict resolution, and positive communication patterns in the business setting. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, develop a businesslike personality, and effectively present themselves before co-workers and the public. This course fulfills the SPH requirement only for certificate programs of study.
- 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.
- SPH 206 ORAL INTERPRETATION (3T) 3 credits**
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. (Offered Spring semester, Decatur Campus only.)

- SPH 228 GROUP COMMUNICATION (3T) 3 credits**
This course offers a study of the nature, uses, and types of group discussion, intrapersonal communication, and interpersonal communication. It includes a study of the role of democratic leadership in organizing and conducting group meetings. Group problem-solving and the individual's role in a functioning group are also explored.

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 on 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.

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. Attendance at theatre productions may be required. (Offered as a telecourse.)
- 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.



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THR 132	ACTING TECHNIQUES II (3T) PREREQUISITE: THR 131. This course is a continuation of THR 131. Students will participate in a theatre production.	3 credits
THR 141	INTRODUCTION TO DANCE IN THEATRE I (1-2T) This is the first of a two-course sequence which offers the student an introduction to basic dance movements and the use of dance in dramatic productions.	1-2 credits
THR 142	INTRODUCTION TO DANCE IN THEATRE II (1-2T) This course is a continuation of THR 141.	1-2 credits
THR 213, 214, 215	THEATRE WORKSHOP IV, V, VI These courses are a continuation of THR 113, 114, and 115.	2 credits each
THR 216	THEATRICAL MAKE-UP (2T) This course is a study of the materials and techniques of theatrical make-up.	2 credits
THR 236	STAGECRAFT (3T) This course is a study of the principles, techniques, and materials in theatrical scenery and lighting.	3 credits
THR 251	THEATRE FOR CHILDREN I (3T) This is the first in a two-course sequence which offers the student practical experience in acting, directing, and developing material for children's theatre.	3 credits
THR 252	THEATRE FOR CHILDREN II (3T) This course is a continuation of THR 251.	3 credits
THR 266	FUNDAMENTALS OF DIRECTING (3T) This course is designed to cover the fundamentals of directing. Instruction will include lectures, demonstration, written and oral analysis of scripts and performances.	3 credits
THR 281	STAGE MOVEMENT I (1T) This is the first in a two-course sequence which offers the student a basic introduction to movement for the stage for those interested in acting or dance. They also include consideration of role development through movement.	1 credit
THR 282	STAGE MOVEMENT II (1T) PREREQUISITE: THR 281 This course is a continuation of THR 281.	1 credit
THR 296	DIRECTED STUDIES IN THEATRE (TBA) This course deals with problems in theatre and arts management. Problems may be arranged in conjunction with other disciplines in the Fine Arts. Participation in theatre productions may be required.	2 credits

TRAFFIC AND TRANSPORTATION TECHNOLOGY (TRT)

TRT 101	HISTORY OF TRANSPORTATION (3T) This course is a study of the United States transportation system. Topics include transportation financial and regulatory structures; transportation history; its role in society; and its economic, social, and political significance. Upon course completion, students should understand the role and significance of the U.S. transportation system.	3 credits
TRT 102	REGULATION OF TRANSPORTATION (3T) This course is a study of transportation regulation, promotions, management problems, and policy issues. Emphasis is on regulatory agencies and their effects on the transportation system. Upon course completion, students should understand the implications of a regulated transportation system versus a deregulated system.	3 credits
TRT 103	INDUSTRIAL TRAFFIC MANAGEMENT (3T) This course is a study of the major functions and knowledge needed to organize and operate an industrial traffic department. Topics include management of the distribution function including mode, carrier selection, and development of rates. Upon course completion, students should be able to apply traffic management principles to operations of an industrial traffic department.	3 credits
TRT 104	TRANSPORTATION AND DISTRIBUTION LOGISTICS (3T) This is a study of the management of resources and their utilization during all phases of the life cycle of a product. Topics include transportation, distribution and warehousing, inter-relations with production, inventories, and marketing. Upon course completion, students should be able to identify and resolve problems related to storing and distribution products.	3 credits
TRT 190	TRAFFIC AND TRANSPORTATION WORKSHOP (1-3T) This workshop includes presentations of current topics of interest to those employed or desiring to be employed in the traffic and transportation industry. Upon course completion, students should be able to apply current technology and practices relevant to the transportation industry.	1-3 credits
TRT 210	TRACKING SYSTEMS (3T) This course is a study of tracking systems in the traffic and transportation industry. Emphasis is on the operational characteristics of various tracking systems. Upon course completion, students should be able to identify the advantages and disadvantages of different tracking systems.	3 credits

- TRT 213 FREIGHT LOSS AND DAMAGE CLAIMS (3T) 3 credits**
This course is a study of the law, regulations, rulings and procedures for handling freight loss and damage claims. Topics include transportation contracts, common carrier's liability, measure of damages, and procedures for filing claims. Upon course completion, students should be able to determine freight losses, minimize liability risks of losses and complete appropriate claim procedures.
- TRT 214 IMPORT/EXPORT TRANSPORTATION MANAGEMENT (3T) 3 credits**
This course is an introduction to the modes of import/export transportation. Topics include the different kinds of carriers, rates, regulations, freight forwarders, customs brokers, and trends of import/export trade that affect transportation. Upon course completion, students should be able to select the most appropriate modes of transportation for various products and should understand the implications of trends and regulations on the import/export business.
- TRT 218 TRANSPORTATION OF HAZARDOUS MATERIALS (3T) 3 credits**
This course is an introduction to transporting hazardous materials. Topics include the classifying, packaging, labeling, marking regulations, and handling of hazardous materials in transportation. Upon course completion, students should be able to implement procedures for transporting various hazardous materials.
- TRT 220 DIRECTED STUDIES IN TRAFFIC AND TRANSPORTATION (1-3T) 1-3 credits**
This course is designed for independent study in specific areas of the traffic and transportation industry. The project is chosen by the student in consultation with a faculty member and is carried out under faculty supervision.

VISUAL COMMUNICATIONS (VCM)

- VCM 131 COMPUTER PUBLISHING GRAPHICS (2T, 2E) 3 credits**
This course is designed to acquaint the student with basic publishing software. The emphasis will be on basic layout and graphics. Upon course completion, the student should be able to produce graphics work in a format suitable for publication.
- VCM 145 INTRODUCTION TO DIGITAL PHOTOGRAPHY (1T, 2E) 2 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.
- VCM 146 DIGITAL PHOTOGRAPHY (1T, 2E) 2 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.
- VCM 150 TYPOGRAPHY (2T, 2E) 3 credits**
This course is an introduction to designing and using type. 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 171 GRAPHICS SOFTWARE APPLICATIONS (1-3T) 1-3 credits**
This course is an introduction to graphics software packages. Students are given a basic overview of the software as applied to specific production problems. Upon completion, the student should be able to produce basic graphics using applicable software. This course may be repeated for credit.
- VCM 180 INTRODUCTION TO GRAPHIC DESIGN (2T, 2E) 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 181 SPECIAL TOPICS (0-3T, 0-6E, 0-9M) 1-3 credits**
This course allows for specialized, in-depth study. Emphasis is placed on individualized instruction.
- VCM 232 ADVANCED COMPUTER GRAPHICS (2T, 2E) 3 credits**
This course is designed to acquaint the student with computer graphics. Topics include illustration and image manipulation. Upon completion, students



Course Descriptions

should be able to apply design principles to computer graphics.

VCM 250 INTRODUCTION TO TECHNICAL ILLUSTRATION (2T, 2E) 3 credits
This course is a study of 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, 2E) 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.

VCM 253 GRAPHIC DESIGN BASICS (2T, 2E) 3 credits
This course focuses on the basic principles of graphic design. Emphasis is on design, layout, and production. Upon completion, students should be able to prepare artwork for printing.

VCM 254 GRAPHIC DESIGN (2T, 2E)
This course focuses on graphic design. Emphasis is on the creative process and the projection process. Upon completion, students should be able to produce high quality graphic designs.

VCM 255 ADVANCED GRAPHIC DESIGN (2T, 2E) 3 credits
This course focuses on graphic communications. Emphasis is on application of design principles to projects involving such skills as illustration, layout, typography, computer graphics, and production technology. Upon completion, students should be able to apply graphic design principles and production skills.

VCM 270 SUPERVISED STUDY IN GRAPHICS (2-6E) 1-3 credits
PREREQUISITE: All studio courses offered in the selected area of study and Permission of Instructor
This course is designed to enable the student to continue studio experiences in greater depth. Areas of study are chosen by the student, with the approval of the instructor. This course will result in a better understanding of various aspects of graphics. This course may be repeated for credit.

VCM 273 SUPERVISED STUDY IN COMPUTER GRAPHICS (2-6E) 1-3 credits
PREREQUISITE: All studio courses offered in the selected areas of study and Permission of Instructor
This course is designed to enable the student to continue studying computer graphics in greater depth. Areas of study will be chosen by the student, with the approval of the instructor. This course will result in a

better understanding of various aspects of computer graphics. This course may be repeated for credit.

VCM 281 DIGITAL DESIGN (1T, 2E) 2 credits
PREREQUISITE: 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 (1T, 2E) 2 credits
PREREQUISITE: 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 apply production techniques to various media.

VCM 285 MULTIMEDIA PRODUCTION (1T, 2E) 2 credits
PREREQUISITE: 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 (1T, 2E) 2 credits
PREREQUISITE: VCM 285
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. Problems will include comprehensive interactive multimedia production. The student will apply creative design and production skills to finished interactive projects.

VCM 287 SPECIAL TOPICS (0-3T, 0-6E, 0-9M) 1-3 credits
This course allows for specialized, in-depth study. Emphasis is placed on individualized instruction.

VCM 289 PORTFOLIO (2E) 1 credit
PREREQUISITE: Permission of Instructor
This course is designed to assist students in the preparation and presentation of a portfolio. This portfolio is developed with faculty consultation and reflects the students ability to produce professional design and graphics.

SPECIAL POPULATIONS

ADULT LITERACY (ADL)

ADL 020	MATH I (3T) 3 credits Beginning Math: teaches Whole numbers, Addition, Subtraction, Multiplication and Division. All instructions and materials are at Pre-GED levels. Materials are geared toward self-pacing with tutorial assistance.
ADL 021	MATH II (3T) 3 credits Primary focus is decimals, with continuing attention to Whole Number problems. All instructions and materials are at Pre-GED levels. Materials are geared toward self-pacing with tutorial assistance.
ADL 022	MATH III (3T) 3 credits Primary focus is on computation of Fractions. All instructions and materials are at Pre-GED levels. Materials are geared toward self-pacing with tutorial assistance.
ADL 023	MATH IV (3T) 3 credits Primary focus is on understanding word problems, with continuing review of previous Math criteria. All instructions and materials are at Pre-GED levels. Materials are geared toward self-pacing with tutorial assistance.
ADL 024	MATH V (3T) 3 credits Primary focus is on Percent Problems. All instructions and materials are at Pre-GED levels. Materials are geared toward self-pacing with tutorial assistance.
ADL 025	MATH VI (3T) 3 credits Primary focus is on Ratio & Proportion/ Measurement. All instructions and materials are at Pre-GED levels. Materials are geared toward self-pacing with tutorial assistance.
ADL 026	MATH VII (3T) 3 credits Primary focus is on Algebra with continuing attention to appropriate Word Problems. All instructions and materials are at Pre-GED levels. Materials are geared toward self-pacing with tutorial assistance.
ADL 027	MATH VIII (3T) 3 credits Primary focus is on Geometry at the Pre-GED level with post-testing on all previous Math disciplines. All instructions and materials are at Pre-GED levels. Materials are geared toward self-pacing with tutorial assistance.
ADL 040	LEARNING ABOUT CAREERS (3T) 3 credits This course introduces students to the many career opportunities that exist in the world of work. Topics include the nature of work, specific job requirements, and the impact of interest and aptitude on successful employment. Upon completion, each student will be

ADL 053

UNDERSTANDING CONDENSED DATA (3T) **3 credits**

This course presents a variety of charts, graphs, and tables for interpretation. Topics include work and transportation schedules, line and bar graphs, pie charts, and tables of contents. Upon completion, students should be able to use condensed data to enhance vocational skills.

ADL 055

ESSENTIALS OF A GOOD CITIZEN (3T) **3 credits**

This course presents concepts from history, law, and government. Topics include citizens' responsibilities and privileges in a market-driven society. Upon completion, students should be able to describe the opportunities and constraints facing citizens in a democracy.

ADL 056

BASIC WRITING (3T) **3 credits** FORMERLY: ADL 085

This course is designed to meet the needs of students with writing deficiencies. Topics may include instruction in grammar, usage, mechanics, sentence structure, and paragraph development. Upon completion, using rules of grammar, students should be able to write paragraphs that start with a topic sentence and develop that topic with three or four complete sentences.

ADL 057

INTERMEDIATE WRITING (3T) **3 credits**

This course is designed to meet the needs of students with moderate writing deficiencies. Topics include grammar, usage, mechanics, sentence structure, transitional tools, and paragraph development. Upon completion students should be able to write a composition of three or more paragraphs developing a topic related to a technical occupation.

ADL 058

BASIC MATHEMATICS (3T) **3 credits** FORMERLY: ADL 088

This developmental course constitutes a review of arithmetical principles and computations designed to help the student develop the mathematical proficiency necessary for selected curriculum entrance.

ADL 059

DEVELOPMENTAL ALGEBRA (3T) **3 credits**

This developmental course is a review of algebra, designed to help the student develop the mathematical proficiency for selected curriculum entrance.

ADL 060

BASIC GEOMETRY (3T) **3 credits** PREREQUISITE: ADL 059 or Permission of Instructor

This course is designed for those who have no previous experience in geometry or who need preparatory work in this area. Topics include fundamental concepts of geometry such as: points, lines, planes, angles, circles, polygons, axioms, theorems, ratio and proportion, and measurement of lengths and areas.

Course Descriptions

ADL 061 DEVELOPMENTAL READING I (3T) 3 credits
FORMERLY: ADL 083
This developmental course is designed to assist students whose placement test scores indicate serious difficulty with decoding skills, comprehension, vocabulary, and study skills.

ADL 062 DEVELOPMENTAL READING II (3T) 3 credits
FORMERLY: ADL 084
PREREQUISITE: ADL 061 or Permission of Instructor
This developmental course is designed to assist students whose placement test scores indicate serious difficulty with decoding skills, comprehension, vocabulary, and study skills.

ADL 063 DEVELOPMENTAL READING III (3T) 3 credits
PREREQUISITE: ADL 062 or Permission of Instructor
This developmental course is designed to assist students whose placement test scores indicate serious difficulty with decoding skills, comprehension, vocabulary, and study skills.

AUTOMOTIVE BODY REPAIR (ABR)

ABR 111 NON-STRUCTURAL REPAIR (1T, 2E, 3M) 3 credits
FORMERLY: ABR 103
Students are introduced to basic principles of non-structural repairs. Topics include shop safety, identification and use of hand-power tools, sheet metal repairs, and materials. Upon completion, students should be able to perform basic sheet metal repairs.

ABR 112 NON-STRUCTURAL PANEL REPLACEMENT (1T, 2E, 3M) 3 credits
FORMERLY: ABR 105
Students are introduced to basic principles of non-structural panel replacement. Topics include replacement and alignment of bolt-on panels, full and partial panel replacement procedures, and attachment methods. Upon completion, students should be able to replace and align non-structural panels.

ABR 121 REFINISHING MATERIALS AND EQUIPMENT (1T, 2E, 3M) 3 credits
FORMERLY: ABR 109
Students are introduced to the various types of automotive finishes and the equipment used in their application. Emphasis is placed on identification of refinishing materials, types of spray equipment, and proper safety precautions. Upon completion, students should be able to properly select paint materials and equipment.

ABR 122 SURFACE PREPARATION (1T, 2E, 3M) 3 credits
This course introduces students to methods of surface preparation for automotive refinishing. Topics include sanding techniques, metal treatment, selection

and use of undercoats, and proper masking techniques. Upon completion, students should be able to prepare a vehicle for refinishing.

ABR 152 PLASTIC REPAIRS (1T, 2E, 3M) 3 credits
FORMERLY: ABR 106

This course provides instruction in automotive plastic repairs. Topics include plastic welding (both hot and chemical), use of flexible repair fillers, primers and paint additives, identification of types of plastics, and determining the correct repair procedures for each. Upon completion, students should be able to correctly identify and repair the different types of automotive plastics.

ABR 153 CORROSION PROTECTION (1T, 2E, 3M) 3 credits
FORMERLY: ABR 108

This course introduces the theory of corrosion and anti-corrosion methods. Emphasis is placed on restoring factory corrosion protection after collision damage. Upon completion, students should be able to replace the factory corrosion protection on repaired or replaced panels.

ABR 154 AUTO GLASS AND TRIM (1T, 2E, 3M) 3 credits

This course is a study of automotive glass and trim. Emphasis is placed on removal and replacement of structural glass, non-structural glass, and auto trim. Upon completion, students should be able to remove and replace automotive trim and glass.

ABR 155 AUTOMOTIVE MIG WELDING (1T, 2E, 3M) 3 credits
FORMERLY: ABR 104

This course provides instruction in automotive Metal Inert Gas (MIG) welding. Emphasis is placed on safety, setup and operation of equipment, and various types of weld. Upon completion, students should be able to successfully join automotive sheetmetal using the MIG process.

ABR 156 AUTO CUTTING & WELDING (1T, 2E, 3M) 3 credits

Students are introduced to the various automotive cutting and welding processes. Emphasis is placed on safety, plasma arc and oxy-acetylene cutting, resistance type spot welding, and Metal Inert Gas (MIG) Welding. Upon completion, students should be able to safely perform automotive cutting and welding procedures.

ABR 181 SPECIAL TOPICS IN AUTO BODY (3-9M) 1-3 credits

This course is a guided independent study of special projects in Collision Repair Technology. Emphasis is placed on student needs. Upon completion, students should be able to demonstrate skills developed to meet specific needs.

ABR 182 SPECIAL TOPICS IN AUTO BODY (3-9M) 1-3 credits

This course is a guided independent study of special projects in Collision Repair Technology. Emphasis is

	placed on student needs. Upon completion, students should be able to demonstrate skills developed to meet specific needs.		
ABR 211	STRUCTURAL ANALYSIS (1T, 2E, 3M) FORMERLY: ABR 211 Students learn methods of determining structural misalignment. Topics include methods of inspection, types of measuring equipment, data sheets, and identifying types of structural damage. Upon completion, students should be able to locate and identify structural damage.	3 credits	ABR 253 AIR CONDITIONING AND COOLING (1T, 2E, 3M) 3 credits This course is a study of automotive air conditioning and cooling systems. Topics include automotive air conditioning and cooling theory, component replacement, and system service. Upon completion, students should be able to repair and service air conditioning and cooling systems related to collision repair.
ABR 212	STRUCTURAL REPAIR (1T, 2E, 3M) FORMERLY: ABR 201 This course provides instruction in the correction of structural damage. Topics include types and use of alignment equipment, anchoring and pulling methods, and repair/replacement of structural components. Upon completion, students should be able to replace and/or align structural components to factory specification.	3 credits	ABR 254 COLLISION DAMAGE REPORTS (1T, 2E, 3M) FORMERLY: ABR 110 Students are introduced to the principle of collision cost estimating. Emphasis is placed on the calculation of parts and labor amount based on collision estimating guides. Upon completion, students should be able to prepare an accurate damage report (estimate).
ABR 221	MECHANICAL COMPONENTS (1T, 2E, 3M) FORMERLY: ABR 202 This course provides instruction in collision-related mechanical repairs. Emphasis is placed on diagnosis and repairs to drivetrain, steering/suspension components and various other mechanical repairs. Upon completion, students should be able to diagnose and repair collision-damaged mechanical components.	3 credits	ABR 255 STEERING AND SUSPENSION (1T, 2E, 3M) 3 credits This course introduces students to the various types of suspension and steering systems used in the automotive industry. Emphasis is placed on system components, suspension angles, and effect of body/frame alignment on these components and angles. Upon completion, students should be able to repair and/or replace damaged components and prepare the vehicle for alignment.
ABR 222	ELECTRICAL COMPONENTS (1T, 2E, 3M) This course provides instruction in collision-related electrical repairs. Topics include basic DC theory, types of diagnostic equipment, circuit protection, wire repair, and use of wiring diagrams. Upon completion, students should be able to diagnose and repair collision-damaged electrical components.	3 credits	ABR 256 TOPCOAT APPLICATIONS (1T, 2E, 3M) FORMERLY: ABR 213 This course focuses on the application of various automotive topcoats. Topics include applying single-stage, basecoat/clearcoat, and tri-coat finishes. Upon completion, students should be able to properly apply automotive topcoats.
ABR 251	COLOR ADJUSTMENTS (1T, 2E, 3M) FORMERLY: ABR 205 Students are introduced to principles of matching automotive finishes. Emphasis is placed on color theory and color adjustments. Upon completion, students should be able to match color and texture of automotive finishes.	3 credits	ABR 257 ADVANCED STRUCTURAL REPAIR (1T, 2E, 3M) FORMERLY: ABR 111 This course provides instruction in the correction of major structural damage. Topics include types and use of alignment equipment, anchoring and pulling methods, and repair/replacement of major structural components. Upon completion, students should be able to replace and/or align major structural components to factory specification.
ABR 252	BODY SHOP MANAGEMENT (3T) FORMERLY: ABR 112 Students are instructed in basic principles of body shop management. Emphasis is placed on management structure, customer/insurance company relations and sound business practices. Upon completion, students should be able to understand the principles of operating a collision repair facility.	3 credits	ABR 281 SPECIAL TOPICS IN AUTO BODY (3-9M) 1-3 credits This course is a guided independent study of special projects in Collision Repair Technology. Emphasis is placed on student needs. Upon completion, students should be able to demonstrate skills developed to meet specific needs.
			ABR 282 SPECIAL TOPICS IN AUTO BODY (3-9M) 1-3 credits This course is a guided independent study of special projects in Collision Repair Technology. Emphasis is placed on student needs. Upon completion, students should be able to demonstrate skills developed to meet specific needs.

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ABR 283 SPECIAL TOPICS IN AUTO BODY (3-9M) 1-3 credits
This course is a guided independent study of special projects in Collision Repair Technology. Emphasis is placed on student needs. Upon completion, students should be able to demonstrate skills developed to meet specific needs.

AUTOMOTIVE MECHANICS (AUM)

AUM 101 FUNDAMENTALS OF AUTOMOTIVE TECHNOLOGY (1T, 2E, 3M) 3 credits
FORMERLY: AUM 111
This course provides a study of safety rules and procedures based on OSHA standards. Topics include the use of shop tools and equipment, measuring devices, preventive maintenance, light duty service procedures, and the use of shop manuals. Upon completion, students should be able to use basic tools and equipment safely and in observance of OSHA standards.

AUM 111 AUTOMOTIVE ELECTRICAL SYSTEMS (1T, 2E, 3M) 3 credits
This course provides a study of the principles of electricity, magnetism, and Ohm's Law. Emphasis is placed on batteries, starting, charging, and lighting circuits. Upon completion, students should be able to identify and repair minor electrical problems in the automobile.

AUM 112 STARTING, CHARGING SYSTEMS AND ACCESSORIES (1T, 2E, 3M) 3 credits
This course is designed to provide the basic knowledge of troubleshooting, maintenance and repair of automotive electrical accessories. This includes the use of special tools when servicing batteries, starting systems, changing and lighting systems. All troubleshooting and maintenance procedures must be in accordance with manufacturer's specifications.

AUM 121 BRAKING SYSTEMS (1T, 2E, 3M) 3 credits
FORMERLY: AUM 122
PREREQUISITE: AUM 111 or Permission of Instructor
This course provides a detailed study of types of hydraulic brake systems (disc and drum) and their service requirements. Topics include brake fundamentals, master cylinders, power assist units, parking brake, lines and valves and anti-lock systems. Upon completion, students should be able to repair brake systems.

AUM 122 STEERING, SUSPENSION AND ALIGNMENT (1T, 2E, 3M) 3 credits
FORMERLY: AUM 121
This course is designed to give a working knowledge of the design, operation, diagnosis, and repair of conventional and strut-type suspension systems. Topics include alignment procedures, wheel balancing, and

conventional and rack and pinion steering systems. Upon completion, students should be able to make repair and adjustments to suspension systems.

AUM 123 ENGINE PRINCIPLES (1T, 2E, 3M) 3 credits
FORMERLY: AUM 221

This course provides a study of engine construction, operation and service, identification of engine components, systems and subsystems. Topics include the operation, service, and repair of the lubricating and cooling systems. Upon completion, students should be able to perform basic repairs on a variety of engines.

AUM 131 POWERTRAIN FUNDAMENTALS (1T, 2E, 3M) 3 credits

This course provides a study of the automotive power flow from the transmission to the drive wheels. Topics include drive lines, gear ratios, differentials, drive axles, troubleshooting, and diagnostics. Upon completion, students should be able to troubleshoot, diagnose, and repair automatic and manual power trains.

AUM 132 AUTOMOTIVE HEATING AND AIR CONDITIONING (1T, 2E, 3M) 3 credits
PREREQUISITE: AUM 111 or Permission of Instructor

This course covers nomenclature, theory of operation, repairs and service procedures, electrical control circuits for the compressor, blower, and coolant fan. Emphasis is placed on proper use of service manuals and safety. Upon completion, students should be able to diagnose and repair heat and air conditioning systems.

AUM 181 SPECIAL TOPICS (3-9M) 1-3 credits

These courses are designed to allow the student to specialize in a particular area of study with minimum instruction in automotive mechanics application and with evaluation at the instructor's discretion. Emphasis is placed on a topic/project that the student is interested in and may include any related area in automotive mechanics. Upon completion, the student should be able to work with minimum instruction and execute the necessary techniques to finish a live work project of their choice.

AUM 211 AUTOMOTIVE ELECTRONICS (1T, 2E, 3M) 3 credits
FORMERLY: AUM 131
PREREQUISITE: AUM 111 or Permission of Instructor

This course builds on the principles of laws of electricity. Emphasis is placed on series, parallel, and series-parallel circuits. Upon completion, students should be able to calculate, build, and measure circuits.

- AUM 212 FUEL SYSTEMS (1T, 2E, 3M) 3 credits**
FORMERLY: AUM 134
PREREQUISITE: AUM 111 or Permission of Instructor
 This course focuses on fuel delivery system operation and diagnosis and repair of fuel system components. Emphasis is placed on servicing the fuel injection system. Upon completion, students should be able to perform advanced engine tune-ups.
- AUM 214 IGNITION SYSTEMS (1T, 2E, 3M) 3 credits**
FORMERLY: AUM 231
PREREQUISITE: Permission of Instructor
 This course provides a study of the principles of operation, diagnosis, and repair of the ignition's system components. Topics include primary and secondary circuit operations, and diagnosis and repair of conventional electronic and distributorless ignition systems. Upon completion, students should be prepared to diagnose and repair ignition system problems.
- AUM 221 ENGINE REPAIR (1T, 2E, 3M) 3 credits**
FORMERLY: AUM 211
PREREQUISITE: AUM 123 or Permission of Instructor
 This course provides understanding of troubleshooting and repair procedures for the gasoline engine. Topics include engine disassembly, identification of components, inspection and measuring of parts, repair and reassembly, use of service manuals, and safety. Upon completion, students should be able to repair or rebuild an automotive engine.
- AUM 222 MANUAL TRANSMISSION/TRANSAXLE (1T, 2E, 3M) 3 credits**
PREREQUISITE: AUM 131 or Permission of Instructor
 This course includes a study of manual transmission/transaxle components, gear ratios, and power flow. Topics include manual and hydraulic clutches and their service and repair. Upon completion, students should be able to remove, repair, and replace manual transmission/transaxle components.
- AUM 231 AUTOMATIC TRANSMISSION/TRANSAXLE (1T, 2E, 3M) 3 credits**
FORMERLY: AUM 232
PREREQUISITE: AUM 131 or Permission of Instructor
 This course is designed to provide a working knowledge of the construction and operation of automatic transmission/transaxles. Topics include the study of torque converters, gear and clutch assemblies, hydraulic and mechanical power flow, and electronic controls. Upon completion, students should be able to remove, install, and perform basic repairs on automatic transmissions and transaxles.

- AUM 240 ENGINE PERFORMANCE (1T, 2E, 3M) 3 credits**
FORMERLY: AUM 212
PREREQUISITE: AUM 111, AUM 211 or Permission of Instructor
 This course focuses on diagnostic procedures as related to the microprocessor and its sensors. Emphasis is placed on the use of digital volt meters, fluke meters, and their ability to locate an electrical problem. Upon completion, students should be able to diagnose engine performance.
- AUM 281 SPECIAL TOPICS (3-9M) 1-3 credits**
PREREQUISITE: Permission of Instructor
 These courses are designed to allow the student to specialize in a particular area of study with minimum instruction in automotive mechanics application and with evaluation at the instructor's discretion. Emphasis is placed on a topic/project that the student is interested in and may include any related area in automotive mechanics. Upon completion, the student should be able to work with minimum instruction and execute the necessary techniques to finish a live work project of his choice.

CARPENTRY (CAR)

- CAR 111 CONSTRUCTION BASICS (1T, 2E, 3M) 3 credits**
FORMERLY: CAR 110
 This course introduces students to the opportunities in and requirements of the construction industry. Topics include economic outlook for construction, employment outlook, job opportunities, training, apprenticeship, entrepreneurship, construction tools, materials and equipment, and job safety. Upon course completion, students should be able to identify the job market, types of training, knowledge of apprenticeship opportunities, construction tools, materials, equipment, and safety procedures.
- CAR 112 FLOORS, WALLS, SITE PREP (3T) 3 credits**
FORMERLY: CAR 111
PREREQUISITE: CAR 110 or 111 or Permission of Instructor
 This course introduces the student to floor and wall layout, and construction. Topics include methods of house framing, components of floor framing, layouts, sub-flooring, connectors and fasteners, and site preparation. Upon course completion, students should be able to identify various types of floor framing systems, select the sizes of floor joists, identify types of house framing, list types of fasteners, and identify property lines, set backs, and demonstrate a working knowledge of terrain and batter boards.

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CAR 113	FLOORS, WALLS, SITE PREP LAB (9M) 3 credits COREQUISITE: CAR 112 PREREQUISITE: CAR 110 or CAR 111 or Permission of Instructor The student will engage in applications of floor and wall construction, application of required tools, use of the builder transit, level rod, tape measures, and grade stakes. Emphasis is placed on cutting sill plates, floor joists, girders, header bridging, sub-flooring, stud wall partitions, door and window headers, wall bracing, leveling instruments, and batter boards. Upon completion, students should be able to layout and construct a floor, including the sill, joist bridging and openings, install sub-flooring, construct interior and exterior walls, and layout property stakes of site plans.	job site safety and concrete forming, mixing, pouring, finishing and reinforcing. Upon completion, students should be able to safely set forms and reinforce, mix, pour, and finish concrete.
CAR 114	INTRODUCTION TO CARPENTRY TOOLS AND MATERIALS (9M) 3 credits This course provides practical and safe application of hand, portable power, stationary and pneumatic tools; use of building materials, fasteners, and adhesives; and job site safety. Emphasis is placed on the safe use of hand, power, and pneumatic tools; proper selection of lumber, plywood, byproducts, nails, bolts, screws, adhesives, fasteners and other construction materials; and job safety. Upon completion, students should be able to identify hand, power, stationary, and pneumatic tools and demonstrate their safe use; identify and properly select wood and non-wood building products; and properly use nails, fasteners, and adhesives.	CAR 124 WALL AND FLOOR SPECIALTIES (9M) 3 credits FORMERLY: CAR 121 PREREQUISITE: CAR 110, CAR 111 or Permission of Instructor This course introduces the student to the use of structural steel and metal studs in walls and floors. Emphasis is placed on wall and floor construction. Upon completion, students should be able to describe components and proper application of structured steel, properly construct walls and floor, and demonstrate proper use of metal studs in framing members.
CAR 121	INTRODUCTION TO BLUEPRINT READING (3T) 3 credits FORMERLY: CAR 113 This course introduces the student to the basic concepts of blueprint reading. Topics include scales, symbols, site plans, and notations. Upon completion, students should be able to identify drawings, scale various drawings, and identify different types of lines, symbols, and notations.	CAR 131 ROOF AND CEILING SYSTEMS (3T) 3 credits FORMERLY: CAR 122 COREQUISITE: CAR 133 PREREQUISITE: CAR 110, CAR 111 or Permission of Instructor This course focuses on the design and installing of roof and ceiling systems. Emphasis is placed on rafters, trusses, ceiling joists, roof decking, and roofing materials. Upon completion, students should be able to design a roof and ceiling system, identify proper installation methods of roofing materials, and describe applicable safety rules.
CAR 122	CONCRETE AND FORMING (1T, 2E, 3M) 3 credits FORMERLY: CAR 142 PREREQUISITE: CAR 110 or CAR 111 or Permission of Instructor This course introduces the student to the properties and uses of concrete and to the procedures for designing concrete forms. Topics include making and pouring concrete, constructing concrete forms, reinforcement methods, finishing concrete, and job safety. Upon completion, students should be able to list safety rules for the job site; identify components of concrete; describe how concrete forms are built; and how concrete is poured, reinforced, and finished.	CAR 132 INTERIOR AND EXTERIOR FINISHING (1T, 2E, 3M) 3 credits FORMERLY: CAR 131 PREREQUISITE: CAR 110, 111 or Permission of Instructor This course introduces the student to interior and exterior finishing materials and techniques. Topics include interior trim of windows and doors, ceilings and wall moldings, exterior siding, trim work, painting, and masonry finishes. Upon completion, students should be able to identify different types of doors, windows and moldings, and describe the uses of each, identify types of exterior sidings and trim, and describe the different types of paint and their proper application.
CAR 123	CONCRETE AND FORMING LAB (9M) 3 credits COREQUISITE: CAR 122 PREREQUISITE: CAR 110 or CAR 111 or Permission of Instructor This course provides students with practical experience in concrete applications. Emphasis is placed on	CAR 133 ROOF AND CEILING SYSTEMS LAB (9M) 3 credits FORMERLY: CAR 123 COREQUISITE: CAR 131 PREREQUISITE: CAR 110, 111 or Permission of Instructor This course provides students with practical experience in building and installing roof and ceiling systems. Emphasis is placed on job site safety, layout and cutting of rafters and joists, cutting and building trusses, installing roof decking and roofing materials. Upon completion, students should be able to cut and install rafters, joists, and trusses, cut and apply roof decking and roofing materials, and apply safety rules for job site.

CAR 191 **INTERNSHIP IN CARPENTRY (5-15M)** **1-3 credits**
FORMERLY: CAR 143
PREREQUISITE: CAR 110, 111 or Permission of Instructor

This course is designed to provide exposure to carpentry practices in non-employment situations. Emphasis is placed on techniques used in the carpentry profession. This course allows students to refine their skills necessary for entry-level employment.

CAR 192 **INTERNSHIP IN CARPENTRY (5-15M)** **1-3 credits**
FORMERLY: CAR 143
PREREQUISITE: CAR 110, 111 or Permission of Instructor

This course is designed to provide exposure to carpentry practices in non-employment situations. Emphasis is placed on techniques used in the carpentry profession. This course allows students to refine their skills necessary for entry-level employment.

CAR 193 **INTERNSHIP IN CARPENTRY (5-15M)** **1-3 credits**
FORMERLY: CAR 143
PREREQUISITE: CAR 110, 111 or Permission of Instructor

This course is designed to provide exposure to carpentry practices in non-employment situations. Emphasis is placed on techniques used in carpentry profession. This course allows students to refine their skills necessary for entry-level employment.

CAR 211 **CONSTRUCTION SPECIALITIES (3T)** **3 credits**
FORMERLY: CAR 133
COREQUISITE: CAR 212
PREREQUISITE: CAR 111, CAR 110, or Permission of Instructor

This course introduces students to the design process for stairs and cabinets. Topics include stair and cabinet design, rod layout, and cabinet finishes. Upon completion, students should be able to design stairways and cabinets, layout a rod for building cabinets, and identify proper finishes for cabinetry.

CAR 212 **CONSTRUCTION SPECIALITIES LAB (9M)** **3 credits**
FORMERLY: CAR 134
COREQUISITE: CAR 211
PREREQUISITE: CAR 111, CAR 110 or Permission of Instructor

This course provides students with practical experience in building stairs and in building and finishing cabinets. Emphasis is placed on stair construction, cabinet joints and layouts, finishes for cabinets, and proper safety precautions. Upon completion students should be able to safely construct stairs, build cabinets, and apply proper finishes.

CAR 213 **PLANS, SPECIFICATIONS, AND CODES (1T, 2E, 3M)** **3 credits**
FORMERLY: CAR 141
This course provides students experience in house

plans, specifications, and building codes. Upon completion, students should be able to read and draw a set of plans, list and use specifications to order materials, and use codes to plan location and safety of structures.

CAR 214 **CABINETRY LAB (9M)** **3 credits**
FORMERLY: CAR 132
PREREQUISITE: CAR 111, CAR 110 or Permission of Instructor

This course is an advanced cabinetry lab. Emphasis is placed on detailed design and construction of cabinetry. Upon completion, students should be able to design and build a complete set of cabinets according to specifications.

CAR 215 **SPECIAL PROJECTS IN CARPENTRY (1T, 2E, 3M)** **3 credits**
PREREQUISITE: Permission of Instructor

This course allows the student to plan, execute and present results of individual projects in carpentry. Emphasis is placed on enhancing skill attainment in the carpentry field. This culminating course allows students to independently apply skills attained in previous courses.

CAR 281 **SPECIAL TOPICS IN CARPENTRY (3-9M)** **1-3 credits**
This course allows for specialized, in-depth study. Emphasis is placed on individualized instruction.

DESIGN DRAFTING TECHNOLOGY (DDT)

DDT 103 **INTRODUCTION TO COMPUTER AIDED DRAFTING (2T, 3M)** **3 credits**
FORMERLY: DDT 152

This course provides an introduction to basic Computer Aided Design & Drafting (CAD) functions and techniques, using "hands-on" applications. Topics include terminology, hardware, basic DOS and Windows functions, file manipulation, and basic CAD software application in producing softcopy and hardcopy. Upon completion, students should be able to identify and select CAD hardware, employ basic DOS and Windows functions, handle basic text and drawing files, and produce acceptable hardcopy on a CAD system.



Course Descriptions

DDT 111	FUNDAMENTALS OF DRAFTING AND DESIGN TECHNOLOGY (1T, 2E, 3M) 3 credits FORMERLY: DDT 101 This course serves as an introduction to the field of drafting and design and provides a foundation for the entire curriculum. Topics include safety, lettering, tools and equipment, geometric constructions, and orthographic sketching. Upon completion, students should develop and use safe work habits, identify and properly use common drafting tools and equipment, construct geometric figures, and sketch basic orthographic views of objects.	tion, students should be able to discuss and understand the significance of materials' properties, structure, basic manufacturing processes, and express and interpret material specifications.
DDT 112	INTRODUCTORY TECHNICAL DRAWING (1T, 2E, 3M) 3 credits FORMERLY: DDT 102 This course covers drawing reproduction and orthographic projection and sectioning. Emphasis will be placed on the theory as well as the mechanics of orthographic projections and shape description, the relationship of orthographic planes and views, the views and their space dimensions, the application of the various types of sections, and drawing reproduction. Upon completion, students should have an understanding of orthographic projections and be able to identify orthographic planes, produce orthographic views of objects, apply the various sectioning techniques and methods, and reproduce drawings.	DDT 118 BASIC ELECTRICAL DRAFTING (1T, 2E, 3M) 3 credits FORMERLY: DDT 206 PREREQUISITE: DDT 111, 112, 103 or Permission of Instructor This course covers the universal language of electrical drafting, including electrical lines, symbols, abbreviations, and notation. Emphasis is placed on typical components such as generators, controls, transmission networks, and lighting, heating and cooling devices. Upon completion, students should be able to draw basic diagrams of electrical and electronic circuits using universally accepted lines and symbols.
DDT 115	BLUEPRINT READING FOR MACHINISTS (3T) 3 credits FORMERLY: DDT 200 This course provides the students with terms and definitions, theory of orthographic projection, and other information required to interpret drawings used in the machine trades. Topics include multiview projections, pictorial drawings, dimensions and notes, lines and symbols, and sketching. Upon completion, students should be able to interpret blueprint drawings used in the machine trades.	DDT 119 ADVANCED ELECTRONIC DRAFTING (1T, 2E, 3M) 3 credits FORMERLY: DDT 207 PREREQUISITE: DDT 111, 112, 103 or Permission of Instructor This course introduces drafting and design techniques dealing with production of electronic equipment for consumer, commercial, and military applications. Emphasis is placed on schematic drawings, connection or wiring diagrams, industrial electronic diagrams, ladder schematics, flow block diagrams, and documentation types and techniques related to the power delivery industry. Upon completion, students should be able to prepare documentation specified to ANSI standards and be familiar with the techniques of composition and the unique symbols and practices of industry.
DDT 116	BLUEPRINT READING FOR CONSTRUCTION (3T) 3 credits FORMERLY: DDT 150 This course provides the students with terms and definitions, theory of orthographic projection, and other information required to interpret drawings used in the construction trades. Topics include multiview projection, dimensions and notes, lines and symbols, floor plans, elevations, sections, details, schedules, electrical plans and specifications. Upon completion, students should be able to interpret blueprints used in the construction trades.	DDT 121 INTERMEDIATE TECHNICAL DRAWING (1T, 2E, 3M) 3 credits FORMERLY: DDT 108 PREREQUISITE: DDT 111, 112, 113, or Permission of Instructor This course is designed to develop a strong foundation in common drafting and design practices and procedures. Topics include auxiliary views, basic space geometry, pictorial drawings, and basic charts and graphs. Upon completion, students should be able to project and develop auxiliary views; locate and specify points, lines, and planes in space; develop axonometric, oblique, and perspective drawings; and draw basic charts and graphs.
DDT 117	MANUFACTURING PROCESSES (1T, 4E) 3 credits FORMERLY: DDT 204 This course in materials and processes includes the principles and methodology of material selection, application, and manufacturing processes. Emphasis is directed to solids to include material characteristics, castings, forging, and die assemblies. Upon comple-	DDT 122 ADVANCED TECHNICAL DRAWING (1T, 2E, 3M) 3 credits FORMERLY: DDT 107 PREREQUISITE: DDT 111, 112, 103 or Permission of Instructor This course covers the methods of providing size description and manufacturing information for production drawings. Emphasis will be placed on accepted dimensioning and tolerancing practices including Geometric Dimensioning and Tolerancing for both the Customary English System and the ISO system. Upon

	completion, students should be able to apply dimensions, tolerances, and notes to drawings to acceptable standards, including Geometric Dimensioning and Tolerancing, and produce drawings using and specifying common threads and various fasteners, including welding methods.		
DDT 123	INTERMEDIATE CAD (2T, 2E, 3M) FORMERLY: DDT 153 PREREQUISITE: DDT 103 or Permission of Instructor This course covers intermediate-level concepts and applications of CAD design and drafting. Emphasis is placed on intermediate-level features, commands, and applications of CAD software. Upon completion, students should be able to develop and use external references and paper space, apply higher-level block creation techniques and usage, including attributes, and apply basic-level customization techniques to CAD software.	4 credits	
DDT 125	SURFACE DEVELOPMENT (1T, 2E, 3M) PREREQUISITE: DDT 111, DDT 112 or Permission of Instructor This course covers surface intersections and developments. Emphasis is placed on the basic types of intersections using simple geometric forms. Upon completion, students should be able to draw common types of surface intersections and handle them simply as applications of the concepts learned in this class.	3 credits	
DDT 131	MACHINE DRAFTING BASICS (1T, 2E, 3M) FORMERLY: DDT 104 PREREQUISITE: DDT 111, DDT 112, DDT 103 or Permission of Instructor This course in machine drafting and design provides instruction in the largest specialty area of drafting in the United States, in terms of scope and job opportunities. Emphasis will be placed on the applications of multi-view drawings, including drawing organization and content, title block and parts lists, assembly drawings, detail drawings, dimensioning and application of engineering controls in producing industrial-type working drawings, including the application of title blocks, parts lists, assemblies, details, dimensions, and engineering controls.	3 credits	
DDT 132	ARCHITECTURAL DRAFTING (1T, 2E, 3M) FORMERLY: DDT 232 PREREQUISITE: DDT 111, DDT 112, DDT 103 or Permission of Instructor This course in architectural design and drafting introduces basic terminology, concepts and principles of architectural design and drawing. Topics include design consideration, lettering, terminology, site plans, and construction drawings. Upon completion, students should be able to draw, dimension, and specify basic residential architectural construction drawings.	3 credits	
DDT 133	BASIC SURVEYING (1T, 2E, 3M) FORMERLY: DDT 210 This course covers the use of surveying instruments, mathematical calculations and the theory of land surveying. Topics include USGS benchmarks, measuring horizontal and vertical angles and distances, terms, and recording and interpreting field notes. Upon completion, students should be able to recognize benchmarks and measure, specify, and record field notes.	3 credits	
DDT 134	DESCRIPTIVE GEOMETRY (1T, 2E, 3M) FORMERLY: DDT 177 This course is designed to teach the fundamental concepts of descriptive geometry through an emphasis on logical reasoning, visualization, and practical applications. Topics include orthographic projection, points and lines in space, auxiliary views, plane representation, intersecting and non-intersecting planes, plane development, and calculations. Upon completion, students should be able to project and intersect points, lines, and planes with their relationship in space, as well as develop surfaces of an object for fabrication purposes.	3 credits	
DDT 150	THEORY OF RESIDENTIAL DRAWING AND DESIGN (3T) COREQUISITE: DDT 155 PREREQUISITE: DDT 120 and DDT 140 or Permission of Instructor This course provides the theory of residential drawing and design. Topics include architectural styles, house design, site and space planning, climate, drawing requirements, construction materials and process, terminology, and specific types of drawings required to complete a full set of construction documents. Introductory, intermediate, and advanced topics are covered. Emphasis is placed on an understanding of the various issues and requirements essential to the field of residential drawing and design.	3 credits	
DDT 155	DRAWING FOR RESIDENTIAL CONSTRUCTION (12M) COREQUISITE: DDT 150 PREREQUISITE: DDT 112 and DDT 103 or Permission of Instructor This course is a direct applications lab to the topics covered within DDT 150. Emphasis is placed upon the production of quality construction documents.	4 credits	
DDT 181	SPECIAL TOPICS IN DRAFTING AND DESIGN TECHNOLOGY (1-3T) These courses provide specialized instruction in various areas related to the drafting industry. Emphasis is placed on meeting students' needs.	1-3 credits	
DDT 182	SPECIAL TOPICS IN DRAFTING AND DESIGN TECHNOLOGY (1-3T) These courses provide specialized instruction in various areas related to the drafting industry. Emphasis is placed on meeting students' needs.	1-3 credits	

Course Descriptions

DDT 211	INTERMEDIATE MACHINE DRAFTING (1T, 2E, 3M) FORMERLY: DDT 201 PREREQUISITE: DDT 131 or Permission of Instructor This second course in machine drafting and design provides more advanced instruction in the largest specialty area of drafting. Topics include applications of previously developed skills in the organization and development of more complex working drawings, use of vendor catalogs and <u>The Machinery's Handbook</u> for developing specifications, and use of standardized abbreviations in working drawings.	3 credits	DDT 215	GEOMETRIC DIMENSIONING AND TOLERANCING (1T, 2E, 3M) FORMERLY: DDT 202 PREREQUISITE: DDT 111, 112, 113, or Permission of Instructor 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.	3 credits
DDT 212	INTERMEDIATE ARCHITECTURAL DRAFTING (1T, 2E, 3M) FORMERLY: DDT 233 PREREQUISITE: DDT 132 or Permission of Instructor This second course in architectural design and drafting continues with more advanced and detailed architectural plans. Topics include floor construction and detailing; foundation, wall, and roof constructions and details; and use of standard manuals, perspective drawings, electrical plans, plumbing plans, and building materials, with emphasis on residential and some light commercial applications. Upon completion, students should be able to draw and specify advanced-level plans including various architectural details.	3 credits	DDT 221	ADVANCED MACHINE DRAFTING (1T, 2E, 3M) FORMERLY: DDT 203 PREREQUISITE: DDT 131 or Permission of Instructor This third course in machine drafting and design covers the development of complex, advanced working drawings by applying previously developed skill. Topics include application of previously developed skills in the organization and development of complex, advanced-level working drawings, including sub-assemblies and a basic design problem. Upon completion, students should be able to organize, layout, and produce complex, advanced-level working drawings, including sub-assemblies and a basic design problem.	3 credits
DDT 213	CIVIL DRAFTING, PLAT MAPS (1T, 2E, 3M) FORMERLY: DDT 211 PREREQUISITE: DDT 111, 112, 103 or Permission of Instructor 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.	3 credits	DDT 222	ADVANCED ARCHITECTURAL DRAFTING (1T, 2E, 3M) FORMERLY: DDT 234 PREREQUISITE: DDT 132 or Permission of Instructor 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.	3 credits
DDT 214	PIPE DRAFTING (1T, 4-6M) FORMERLY: DDT 205 PREREQUISITE: DDT 111, 112, 103 or Permission of Instructor This course covers the theory and practical application needed to understand piping fundamentals as used in refineries and petrochemical plants. Topics include process and mechanical flow diagrams, plant equipment, isometric drawings, instrumentation symbols, pipe symbols, flanges, fittings, and applications of basic math and trigonometry. Upon completion, students should be able to demonstrate pipe drafting techniques and fundamentals in order to prepare working drawings used in refineries and the petrochemical environment.	3-4 credits	DDT 223	ADVANCED CIVIL DRAFTING (1T, 2E, 3M) FORMERLY: DDT 212 PREREQUISITE: DDT 213 or Permission of Instructor This course is designed to build on the concepts learned in Civil Drafting I and introduce the student to more complex projects and problems. Topics include, but are not limited to profiles, staking plans, grading plans, utility plans, and civil detailing. Upon completion, students should be able to accurately draft the documents described previously.	3 credits

DDT 224	STRUCTURAL CONCRETE DRAFTING (1T, 2E, 3M) FORMERLY: DDT 217 PREREQUISITE: DDT 111, 112, 103 or Permission of Instructor This course is designed to develop the knowledge and skills necessary to understand the basic components and terminology of pre-cast and poured-in place concrete structures. Emphasis is placed on pre-cast concrete framing plans, sections, fabrication and connection details, poured-in place concrete foundations, floor systems, and bills of materials. Upon completion, students should be able to construct engineering and shop drawings of concrete beams, columns, floors, roof, and wall framing plans using the A.I.S.C. manual and incorporating safety practices.	3 credits	DDT 231	ADVANCED CAD (3T, 2E) FORMERLY: DDT 154 PREREQUISITE: DDT 131 or Permission of Instructor This course covers the advanced applications of CAD software to engineering projects in various applications, including architectural, civil, mechanical, and environmental engineering, with consideration for advanced physical and psychological principles of CAD. These principles will be applied toward CAD customization and programming principles, for the express purpose of increasing productivity and improving the performance of the CAD operator, thereby making CAD much more productive in an engineering environment. Emphasis will be placed on using intelligent CAD techniques to increase the quality of output. 3D modeling and rendering will be introduced. Upon completion, students should be able to apply advanced CAD techniques in solving complex problems related to all engineering applications.	4 credits
DDT 225	STRUCTURAL STEEL DRAFTING (1T, 2E, 3M) FORMERLY: DDT 215 PREREQUISITE: DDT 111, 112, 103 or Permission of Instructor 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 materials. 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.	3 credits	DDT 232	CAD CUSTOMIZATION (2T, 2E, 3M) FORMERLY: DDT 155 PREREQUISITE: DDT 123 or Permission of Instructor This course introduces the various methods of customizing CAD software to meet individual or company needs. Topics include menu customization, programming, custom command macros, script files, slides, and slide libraries. Upon completion, students should be able to write menus, write programming routines, and write script files for the purpose of increasing the proficiency of the CAD operator.	4 credits
DDT 226	TECHNICAL ILLUSTRATION (1T, 2E, 3M) PREREQUISITE: DDT 121 or Permission of Instructor This course provides the student with various methods of illustrating structures and machine parts. Topics include axonometric drawings, exploded assembly drawings, one point, two point, and three point perspectives, surface textures, and renderings. Upon completion, students should be able to produce drawings and illustrations using the previously described methods.	3 credits	DDT 233	SOLIDS MODELING (2T, 2E, 3M) PREREQUISITE: DDT 123 or Permission of Instructor This course provides instructions in 3D Design Modeling, utilizing the 3D capabilities of CAD software. Emphasis is placed on 3D wire frame, surface and solids modeling along with the development of 2D detail drawings from 3D models. Upon completion, students should be able to generate 3D surface and solid models and 2D orthographic production drawings from created solid models.	4 credits
DDT 227	STRENGTH OF MATERIALS (4T) This course in statics and strength of materials includes the study of forces and how they act and react on bodies and structures. Topics include the effects of forces as found in structures and machines under conditions of equilibrium, how materials resist forces, strengths of common construction material and structural components. Force systems such as parallel, concurrent, and non-concurrent are studied and coplanar and non-coplanar situations are included. Upon completion, students should be able to apply the principles of force in engineering drawings.	4 credits	DDT 235	SPECIALIZED CAD (2T, 2E, 3M) FORMERLY: DDT 214 PREREQUISITE: DDT 103 or Permission of Instructor This course introduces alternative CAD application software and alternative platforms, and can serve as a means of introducing third party programs that work in conjunction with a specific CAD application. Topics include various Graphical User Interfaces (GUI's) and how to navigate them, as well as how to use a third party application to make working in a specific CAD package easier and more productive. Upon completion, students should be able to use more than one CAD software package and produce hardcopy and use third party software to make certain tasks easier with a specific CAD program.	4 credits

Course Descriptions

DDT 236	DESIGN PROJECT (1T, 2E, 3M) FORMERLY: DDT 216 PREREQUISITE: Permission of Instructor This course is designed for advanced students who aspire to more advanced and specialized skills in one certain drafting area. Emphasis is placed on the student's ability to apply the principles learned in previous drafting classes in one special area, as approved by the instructor. The required project must be agreed upon by the instructor and the student, as well as how the work is to be accomplished. Upon completion, students will further reinforce previously learned concepts by applying engineering principles and controls to a personal design project.	3 credits	HOC 120	PLANT PROPAGATION (1T, 4E) FORMERLY: HOC 1201 This course is a study of the seed production, root formation, wound healing, and other practical phases of plant reproduction. Methods commonly used to reproduce plants by sexual and asexual means are emphasized. Upon course completion, students will be able to identify and demonstrate methods of reproducing plants from seeds, cuttings, and layering.	3 credits
DDT 240	PUBLIC UTILITY DRAFTING (1T, 2E, 3M) FORMERLY: DDT 213 PREREQUISITE: DDT 223 or Permission of Instructor This course is designed to develop the knowledge and skills necessary to understand the basic components of public utility systems. Emphasis is placed on drafting techniques, sections, fabrication and connection details and bills of materials for fresh water, storm water, and wastewater. Upon completion, students should be able to produce engineering and shop drawings, incorporating safety practices, and details using the A.I.S.C. Manual.	3 credits	HOC 125	TURF MANAGEMENT (1T, 4E) FORMERLY: HOC 1251 This course is the study of all major southern lawn and sports grasses, their establishment and maintenance. Topics include turf equipment, fertilizers, insect and disease problems, and mowing techniques. Upon course completion, students will be able to evaluate the quality of an existing turf area and prescribe a maintenance program for turf used for lawns, playing fields, and parks.	3 credits
HORTICULTURE (HOC)			HOC 130	NURSERY PRODUCTION (1T, 4E) FORMERLY: HOC 1301 PREREQUISITE: HOC 115 or Permission of Instructor This course focuses on all aspects of producing plants in a nursery. Topics include soil and other media for plant growth, container selection, plant propagation, watering, and fertilization, pest control, and product practices commonly used by commercial growers. Upon course completion, students will be able to demonstrate proficiency in all phases of nursery plant production.	3 credits
HOC 110	INTRODUCTION TO HORTICULTURE SCIENCE (2T, 2E) This course introduces students to botany, genetics, and plant nomenclature. Topics include an overview of the horticultural industry and career opportunities. Upon course completion, students will be able to perform basic tasks associated with employment in the horticultural industry.	3 credits	HOC 134	INTRODUCTION TO FLORICULTURE (1T, 2E) This course introduces students to principles of floral design and flower shop management. Topics include design techniques, marketing, and management practices. Upon completion, students should be able to create basic floral designs and demonstrate an understanding of effective flower shop management practices.	2 credits
HOC 111	HORTICULTURE BUSINESS MANAGEMENT (1T, 2E, 3M) This course provides the essential information needed to establish and maintain a horticulture-related business. Topics of discussion will include the basic principles of business and personnel management, customer services, insurance, and record keeping. The student will develop an understanding of the requirements placed on the manager of a small business to comply with mandated state and federal regulations and meet consumer demands.	3 credits	HOC 135	ORNAMENTAL PLANT IDENTIFICATION AND CULTURE (1T, 4E) FORMERLY: HOC 1359 This course focuses on the identification and growth requirements of ornamental plants. Topics include identification, habits of growth, cultural requirements, and landscape use of ornamental plants in the southeastern United States. Upon course completion, students will know common and botanical names of landscape plants and will know the appropriate use of each plant.	3 credits
HOC 115	SOILS AND FERTILIZERS (2T, 2E) FORMERLY: HOC 1151 This course is a study of soil properties and the management practices related to the use of fertilizers. Topics include soil classification, mapping, and fertilizer needs based on current and intended use. Upon course completion, students will be able to develop soil fertility management programs.	3 credits	HOC 136	RESIDENTIAL LANDSCAPE DESIGN (2T, 4E) FORMERLY: HOC 2201 This course provides an overview of the fundamentals of residential site design. Topics include site measur-	4 credits

	ing and base map preparation, functional diagrams, landscape design principles, drafting and drawing procedures, design principles, appropriate use of plant materials, planting, site preparation, and spatial composition. Upon course completion, students will be able to develop a master plan for a residential property.	HOC 176	ADVANCED STUDIES IN HORTICULTURE (6M) 2 credits This course allows students to do practical research and develop a project of special interest under the guidance and supervision of a faculty member. Students and faculty confer in the selection of a project and in identification of objectives.
HOC 137	COMMERCIAL LANDSCAPE DESIGN (1T, 2E, 3M) 3 credits FORMERLY: HOC 2211 PREREQUISITE: Permission of Instructor This course is a study of landscape design principles, drafting and drawing procedures, and the use of plant materials. Emphasis will be placed on drawing techniques and the appropriate use of plant materials in the commercial setting. Lab time is provided for the student to develop landscape drawings.	HOC 181	SPECIAL TOPICS IN HORTICULTURE (2-6E, 3-9M) 3 credits This course provides specialized instruction in various areas related to the horticulture industry. Emphasis is placed on meeting students' needs.
HOC 140	ORNAMENTAL PLANT PEST MANAGEMENT (2T, 2E) 3 credits FORMERLY: HOC 1405 This course is a study of plant pests affecting the production and maintenance of ornamental plants. Emphasis is placed on anthropods, weeds, cultural control, chemical control, and disease-causing agents including environmental factors. Upon course completion, students will be able to identify the signs and symptoms of invading pests and the characteristics associated with the onset of diseases in turfgrass and ornamental plants and will be able to develop appropriate pest control plans.	HOC 182	SPECIAL TOPICS IN HORTICULTURE (2-6E, 3-9M) 3 credits This course provides specialized instruction in various areas related to the horticulture industry. Emphasis is placed on meeting students' needs.
HOC 151	IRRIGATION SYSTEMS (1T, 2E) 2 credits FORMERLY: HOC 1511 This course is designed to provide students with the information needed to design, layout, and install an irrigation system on residential and commercial properties. Topics of discussion will include system design, cost estimating, installation techniques, and electronic control devices. Upon course completion, students will be able to design and install residential and commercial irrigation systems.	HOC 210	GREENHOUSE MANAGEMENT (1T, 4E) 3 credits FORMERLY: HOC 2109 This is an introductory course in greenhouse plant production. Topics include types of structures, construction techniques, covering materials, and temperature control. Upon course completion, students will be able to apply basic greenhouse production procedures.
HOC 167	GOLF COURSE MAINTENANCE (2T, 2E) 3 credits FORMERLY: HOC 1513 This course introduces students to procedures commonly used to maintain golf course greens and fairways. Topics include mowing procedures, fertilizing, watering, pest control, overseeding, and greens protection. Upon completion, students will be able to demonstrate appropriate greens and fairway maintenance procedures.	HOC 211	GREENHOUSE CROP PRODUCTION (1T, 4E) 3 credits FORMERLY: HOC 2101 This is an introductory course to the use of greenhouse facilities for the production of foliage and flowering plant crops. Topics include propagation, scheduling, soils and media, crop selection, pest management, and methods of production. Upon course completion, students will be able to produce a wide range of commercial greenhouse crops.
HOC 175	SEMINAR IN HORTICULTURE (1T) 1 credit PREREQUISITE: Permission of Instructor This course focuses on current topics in horticulture. Topics are not normally included in the prescribed course of study, but are to ensure that students remain current in the field.	HOC 216	LANDSCAPE MAINTENANCE (2T, 2E) 3 credits FORMERLY: HOC 2217 PREREQUISITE: Permission of Instructor This course focuses on maintaining plant materials and turf in an existing landscape. Topics include pruning, mowing techniques, pest management, and selection of maintenance equipment. Upon course completion, students will be able to demonstrate landscape maintenance techniques and will be able to prepare labor-time estimates and cost analysis for maintaining landscapes.
		HOC 218	LANDSCAPE CONSTRUCTION (2T, 2E) 3 credits This course is an introduction to landscape construction. Emphasis is placed on grading and drainage, site development, irrigation systems, lighting, and other landscape construction. Upon course completion, students will be able to evaluate a blueprint and reconcile it to the job site.

Course Descriptions

HOC 230 VEGETABLE AND ORCHARD CROPS (1T, 4E) 3 credits
FORMERLY: HOC 2303
PREREQUISITE: HOC 115 or Permission of Instructor
 This course focuses on vegetable and fruit crops. Topics include cultural requirements, production procedures, and marketing. Upon course completion, students should be able to grow vegetables and establish orchard layouts.

MASONRY (MAS)

MAS 111 MASONRY FUNDAMENTALS LAB (2T, 3M) 3 credits
COREQUISITE: MAS 151
 This course is designed as an introduction and orientation to masonry construction, specifically to brick and block construction. Topics include the identification and safe use of tools, equipment, and masonry materials. Upon completion, students should be able to properly apply masonry techniques.

MAS 121 BRICK/BLOCK MASONRY (3T) 3 credits
FORMERLY: MAS 112
COREQUISITE: MAS 161, 162
PREREQUISITE: MAS 111 or Permission of Instructor
 This course is designed to provide the student with a working knowledge of the various concrete block and brick sizes as well as types of joints. Emphasis is placed on understanding the modular system, wall types, joints, and wall insulation. Upon completion, students should be able to identify methods of brick and block reinforcements, wall supports, and wall types, joints, insulation, and sample panels and prisms.

MAS 131 RESIDENTIAL/COMMERCIAL (3T) 3 credits
FORMERLY: MAS 124
COREQUISITE: MAS 171
PREREQUISITE: MAS 111 or Permission of Instructor
 This course introduces students to residential and commercial construction, plans and layouts, and reinforced masonry. Emphasis is placed on home building, shopping centers and high rise buildings, residential and commercial drawings and specifications, job costing, job preparation, as well as brick and block moisture control. Upon completion, students should be able to read full-scale construction drawings, estimate job costs, specify job preparation techniques, and identify methods for veneering a wall, constructing a composite wall, installing expansion joints, setting coping, and moisture control.

MAS 151 MASONRY FUNDAMENTALS LAB (9M) 3 credits
COREQUISITE: MAS 111
 This course provides a practical application of industry brick and block construction. Emphasis is placed on mixing mortar, using masonry equipment and tools, job preparation, spreading and furrowing mortar, and dry bonding. Upon completion, students should be able to demonstrate appropriate practices, including safety in brick and block construction to entry-level standards.

MAS 152 MASONRY FUNDAMENTALS LAB (9M) 3 credits
FORMERLY: MAS 123
PREREQUISITE: MAS 111
 This course provides a practical application of introductory brick and block construction. Emphasis is placed on spreading mortar and laying bricks; coursing bricks; laying bricks in a running bond; building course pyramids; and building stretcher, wall common, Flemish, English and stack bonds. Upon completion, students should be able to demonstrate appropriate practices, including safety, in brick and block construction to entry-level standards.

MAS 153 SPECIAL TOPICS/PROJECTS (1T, 5E) 3 credits
 A selection of topics/projects related to the masonry profession is addressed in this combined theory and lab course. Subject matter and projects will vary according to industry and student needs, and the course may be repeated for credit within institutional policy. Upon completion, students will demonstrate competencies designed to assess course objectives.

MAS 161 CONCRETE BLOCK MASONRY (9M) 3 credits
FORMERLY: MAS 122
COREQUISITE: MAS 121
PREREQUISITE: MAS 111 or Permission of Instructor
 This course provides practical application of concrete block advanced laying techniques. Emphasis is placed on developing skill in laying concrete block, constructing and reinforcing walls, joints, and sample panels and prisms. Upon completion, students should be able to construct concrete block walls to entry-level standards.

MAS 162 BRICK MASONRY LAB (9M) 3 credits
FORMERLY: MAS 113
COREQUISITE: MAS 121
PREREQUISITE: MAS 111 or Permission of Instructor
 This course provides practical application of advanced brick layout techniques. Emphasis is placed on developing skill in laying brick, constructing and reinforcing walls, joints, and sample panels and prisms. Upon completion, students should be able to construct brick walls to entry-level standards.

- MAS 171 RESIDENTIAL/COMMERCIAL (9M) 3 credits**
COREQUISITE: MAS 131
PREREQUISITE: MAS 111 or Permission of Instructor
This course provides application of residential and commercial techniques for plans and layouts, as well as brick veneer, composite walls, expansion joints, and moisture control. Emphasis is placed on developing skill in reading residential and commercial drawings and applying specifications to acceptable code standards, job costing, job preparation, and brick and block moisture control. Upon completion, students should be able to demonstrate use of the scaling rule for a set of plans; identify and sketch standard symbols for walls, openings, floors, and materials; estimate job costs according to plan; utilize appropriate methods to ensure moisture control; lay brick and block to the line; and build brick and block foundations to entry-level standards.
- MAS 181 SPECIAL TOPICS IN MASONRY (3-9M) 1-3 credits**
These courses provide specialized instruction in various areas related to the industry. Emphasis is placed on meeting students' needs.
- MAS 281 SPECIAL TOPICS IN MASONRY (3-9M) 1-3 credits**
These courses provide specialized instruction in various areas related to the industry. Emphasis is placed on meeting students' needs.

UPHOLSTERY (UPH)

- UPH 111 UPHOLSTERY FUNDAMENTALS AND DESIGN (3T) 3 credits**
FORMERLY: UPH 100
This course is designed to introduce the student to a working knowledge of upholstery techniques and hands-on experience using the fundamentals of Upholstery/Design. Emphasis is placed on safety, upholstery terminology, housekeeping, tools, equipment, minor sewing machine repair, a brief history of furniture styles, color, fabrics, woods, and an introduction to principles and elements of furniture/automotive design. Upon completion, the student should be able to cite the principles and elements of design and apply upholstery techniques in all areas specified to complete requirements of this course.
- UPH 112 UPHOLSTERY DESIGN FURNITURE LAB (9M) 3 credits**
FORMERLY: UPH 111
This course is designed to teach the student specific techniques and applications in furniture design foundations. Emphasis is placed on proper use, care, storage, and maintenance of tools and equipment and proper application of design techniques working with the function, beauty, and individuality of a good design plan or foundation. Upon completion, students should be able to identify tools and equipment and apply

- foundation techniques including tying springs, applying stuffing and padding, and using a variety of materials to achieve a good design plan.
- UPH 113 UPHOLSTERY DESIGN AUTO LAB (9M) 3 credits**
FORMERLY: UPH 222
This course provides an introduction to automotive techniques and design with application or live work projects. Emphasis is placed on the application of design techniques including working with springs, door panels, headliners, auto seating, rear shelves, carpet, windlace, arm rests, and dashboards. Upon completion, students should be able to perform hands-on upholstery techniques including design to automotive upholstery.
- UPH 114 UPHOLSTERY DESIGN EXPERIMENTAL LAB (6E) 3 credits**
FORMERLY: UPH 101
This course is an experimental lab in Upholstery/Design. It consists of demonstrations by the instructor and experimentation by students. Upon completion, students should be able to demonstrate, with appropriate safety precautions, the basic principles of Upholstery/Design.
- UPH 121 CORRELATING DECORATIVE ELEMENTS (3T) 3 credits**
PREREQUISITE: Permission of Instructor
This course is designed to effectively bring together the elements and principles of design while allowing the student to specialize in automotive, furniture, or both areas including job planning and decorative techniques. This course covers job planning, layouts, correlation of decorative elements including simple floor plans, color, draperies, wall coverings with special emphasis on diamonds, channeling, and decorative trims. Upon completion, students should be able to plan layouts, identify and apply the principles and elements of design, and select decorative trims that blend with the décor.
- UPH 122 DECORATIVE ELEMENTS FURNITURE LAB (9M) 3 credits**
FORMERLY: UPH 212
PREREQUISITE: Permission of Instructor
This course is designed to teach the student to use a layout in computing yardage and to plan decorative techniques to be used with furniture projects. Topics include layouts, planning, redesigning, use of decorative trims, yardage charts and accessories necessary to achieve a harmonious design. Upon completion, students should be able to execute plans, compute yardage, redesign furniture, and select decorative techniques and accessories to complete a design.
- UPH 123 DECORATIVE ELEMENTS AUTO LAB (9M) 3 credits**
FORMERLY: UPH 241
PREREQUISITE: Permission of Instructor
This course is designed for instruction in using a layout to compute yardage and in planning decorative

Course Descriptions

	techniques which include windlace, hidem welt, various trims, and finishing techniques. Upon completion, students should be able to compute yardage from a well-planned layout and apply decorative techniques to the finished automotive upholstery project.		
UPH 124	DECORATIVE ELEMENTS EXPERIMENTAL LAB (6E) FORMERLY: UPH 233 PREREQUISITE: Permission of Instructor This course is an experimental lab in Decorative Elements. It consists of demonstrations by the instructor and experimentation by students. Upon completion, students should be able to demonstrate the basic principles of planning, measurement, and the use of appropriate decorative techniques.	3 credits	
UPH 131	WOOD REPAIR AND REFINISHING (1T, 2E, 3M) FORMERLY: UPH 122 PREREQUISITE: Permission of Instructor This course provides the students with skills necessary to repair or refinish antique woods, repair scars or scratches, and touch-up existing finishes. Topics covered in this course include tools, supplies, repairs, stains, sanding, refinishing products, and special techniques to restore a finish. Upon completion, students should be able to restore woods, replace broken parts, and refinish woods.	3 credits	
UPH 132	HISTORY OF FURNITURE STYLES (3T) PREREQUISITE: Permission of Instructor This course is designed to teach the student to identify period furniture and some of the basics of style using the vocabulary of furniture description. Topics include history of furniture, furniture facts, period furniture, furniture identification, and important trends, fabrics, motifs, woods, finishes, and styles. Upon completion, students should be able to identify furniture styles, periods, motifs, woods and finishes, and coordinate styles.	3 credits	
UPH 183	SPECIAL TOPICS (1-3T) These courses are designed to allow the student to specialize in a particular area of study with minimum supervision in Upholstery/Design application and with evaluation at the instructor's discretion. Emphasis is placed on a topic/project that the student is interested in and may include any automotive, furniture, or related area in Upholstery/Design. Upon completion, students should be able to work with minimum supervision and execute the necessary techniques to finish a live work project of their choice.	1-3 credits	
UPH 211	DESIGN INTERIORS FURNITURE AND AUTO (3T) PREREQUISITE: Permission of Instructor This course is designed for instruction in planning interiors that satisfy individual needs in furniture or automobiles, using the elements and principles of design. Emphasis is placed on blending styles, specifying interior materials, correlating a color scheme, placing furniture in a room, placing seats in a car or resort vehicle as well as vans and boats. Upon completion, students should be able to work with a customer on appropriate color schemes, materials, and designs which are appropriate for the lifestyles or needs of the family.	3 credits	
UPH 212	DESIGN INTERIORS FURNITURE LAB (9M) FORMERLY: UPH 251 PREREQUISITE: Permission of Instructor This course is designed for instruction in applying the principles and elements of design when upholstering furniture and to create a unified design. Emphasis is placed on the use of appropriate fabrics, colors, textures, types of furniture, needs of customers, lifestyles, occupation, commercial or residential setting. Upon completion, students should be able to identify elements of design and apply them to the principles of design in order to achieve a unified design which best suits the décor.	3 credits	
UPH 213	DESIGN INTERIORS AUTO LAB (9M) FORMERLY: UPH 242 PREREQUISITE: Permission of Instructor This course is designed to instruct the student to apply the principles and elements of design when upholstering automobiles and to create a unified design. Emphasis is placed on the use of appropriate fabrics, colors, textures, types of automobiles, needs of customers, and purpose for which the vehicle is being upholstered. Upon completion, students should be able to identify elements of design and apply them to the principles of design in order to achieve a unified design which best suits the automobile décor.	3 credits	
UPH 214	DESIGN INTERIORS EXPERIMENTAL LAB (6E) FORMERLY: UPH 231 PREREQUISITE: Permission of Instructor This course is an experimental lab in Design Interiors. It consists of demonstration by the instructor and experimentation by students. Upon completion, students should be able to demonstrate their knowledge of materials and other elements of design.	3 credits	
UPH 215	SHOP MANAGEMENT AND LAYOUT (3T) FORMERLY: UPH 133 PREREQUISITE: Permission of Instructor This course is designed to provide the student with necessary information to operate and manage an upholstery business. Emphasis is placed on shop layouts, necessary equipment, supplies, tax information,	3 credits	

setting up an accounting system and managing work loads and inventory control in a simulated working atmosphere. Upon completion, students should be able to layout, perform set-up, and manage an upholstery business.

UPH 216 **DRAPERIES, CORNICES, BEDDING (1T, 2E, 3M)** **3 credits**
FORMERLY: UPH 232

PREREQUISITE: Permission of Instructor

This course provides the student with basic techniques in designing draperies, cornices, and bedding. Emphasis is placed on designing headboards, comforters, pillow shams, dust ruffles, cornices, pinch pleats, rod pockets, drapery, and various shades. Upon completion, students should be able to design functional draperies, cornices, and bedding accessories to contribute an aesthetic quality to the décor.

UPH 217 **UPHOLSTERY CRAFTS AND ACCESSORIES (1T, 2E, 3M)** **3 credits**
FORMERLY: UPH 213

PREREQUISITE: Permission of Instructor

This course is designed to teach the student to construct the most up-to-date crafts/accessories in upholstery. Emphasis is placed on creating patterns, designing crafts, using various fabrics, and identifying a list of new crafts using upholstery materials. Upon completion, students should be able to design upholstery crafts/accessories, create patterns, and use various fabrics.

UPH 221 **AUTOMOTIVE UPHOLSTERY AND DESIGN (3T)** **3 credits**
FORMERLY: UPH 244

PREREQUISITE: Permission of Instructor

This course is designed to introduce the student to several different types of automobile interior designs. Topics covered include fabric, vinyl and leather seat inserts, sheared and loop carpet, headliners, and interior panels. Upon completion, students should be able to select suitable materials and complete an automotive upholstery project using a style of their choice.

UPH 222 **INTERIOR MATERIALS - FURNITURE (1T, 2E, 3M)** **3 credits**
FORMERLY: UPH 113

PREREQUISITE: Permission of Instructor

This course is designed to teach the student to choose the most appropriate interior materials to be used on and with furniture. Emphasis is placed on wall paper, paint, upholstery fabrics, drapery fabrics, carpet, paneling, floor coverings, and window treatments. Upon completion, students should be able to utilize interior materials and to advise customers in planning décor.

UPH 223 **INTERIOR MATERIALS-AUTO (1T, 2E, 3M)** **3 credits**
FORMERLY: UPH 243

PREREQUISITE: Permission of Instructor

This course is designed to teach the student to use interior materials available in the ever-changing industry of automotive upholstery. Emphasis is placed on

design, color, pattern, texture, type of vehicle, and durability of fabric to be used in customizing or restoring a vehicle to its original status. Upon completion, students should be able to select materials, match colors, choose suitable patterns, search for new materials, repair damaged materials, and contour new designs.

UPH 224 **AUTO UPHOLSTERY DESIGN EXPERIMENTAL LAB (6E)** **3 credits**

PREREQUISITE: Permission of Instructor

This course is an experimental lab in Automotive Upholstery/Design. It consists of demonstrations by the instructor and experimentation by the students. Upon completion, students should be able to apply appropriate techniques in Automotive Upholstery/Design.

UPH 225 **ADVANCED FURNITURE TECHNIQUES (1T, 2E, 3M)** **3 credits**
FORMERLY: UPH 214

PREREQUISITE: Permission of Instructor

This course is designed for instruction in advanced techniques of furniture coverings and design. Emphasis is placed on advanced cushion making, diamond tufting, redesigning furniture frames, redesigning coverings, advanced skirts, headboards, and other specific projects. Upon completion, students should be able to perform advanced skills necessary to complete furniture redesigns and coverings.

UPH 226 **ADVANCED AUTOMOTIVE TECHNIQUES (1T, 2E, 3M)** **3 credits**

PREREQUISITE: Permission of Instructor

This course is designed to instruct the student in advanced automotive techniques necessary to perform skills to complete jobs. Emphasis is placed on tuck and roll, customization, convertible tops, and specialized techniques in boat seats, boat carpeting, tarps, and recreational vehicles. Upon completion, students should be able to apply advanced techniques and skills in any aspect of automotive upholstery.

UPH 227 **QUILTING TECHNIQUES AND DESIGN (1T, 2E, 3M)** **3 credits**

PREREQUISITE: Permission of Instructor

This course is designed to introduce the student to basic techniques in quilt design. Emphasis is placed on selecting colors, fabrics, and patterns; piecing; marking appliques; assembling quilt blocks; using a quilting machine; and using quilting techniques as applied to upholstery. Upon completion, students should be able to select colors, fabrics, assemble quilt pieces in a design, use appliques, and use basic techniques of quilting in upholstery projects.

UPH 281 **SPECIAL TOPICS (3M)** **1 credit**

These courses are designed to allow the student to specialize in a particular area of study with minimum supervision in Upholstery/Design application and with evaluation at the instructor's discretion. Emphasis is placed on a topic/project that the student is interested in and may include any automotive, furniture, or related area in

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Upholstery/Design. Upon completion, students should be able to work with minimum supervision and execute the necessary techniques to finish a live work project of their choice.

WELDING TECHNOLOGY (WDT)

WDT 111 CUTTING PROCESSES THEORY (1-3T, 0-4E, 0-6M) 2-3 credits

This course covers the rules of safety and identification of shop equipment and provides the student with the skills and knowledge necessary for the safe operation of oxy-fuel cutting, carbon arc cutting and plasma arc welding. Topics include safety, proper equipment setup, and identification of oxy-fuel, carbon arc cutting and plasma arc cutting equipment. Upon completion, students should be able to identify safety hazards, gases, equipment and components, and set up equipment for proper application.

WDT 112 SHIELDED METAL ARC FILLET THEORY (1-3T, 0-4E, 0-6M) 2-3 credits

This course provides the student with instruction on safety practices and terminology in the shielded metal arc welding (SMAW) processes. Emphasis is placed on safety, welding terminology, equipment identification, setup and operation, and related information in the shielded metal arc welding process. Upon completion, students should be able to identify safety hazards and welding equipment, understand welding terminology related to SMAW, and know the proper clothing to wear while in a welding environment.

WDT 113 BLUEPRINT READING (1-3T, 0-4E, 0-6M) 2-3 credits FORMERLY: WDT 133

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.

WDT 114 GAS METAL ARC FILLET THEORY (1-3T, 0-4E, 0-6M) 2-3 credits FORMERLY: WDT 132

This course introduces the student to the gas metal arc welding process. Emphasis is placed on safe operating practices, handling and storage of compressed gases, and process principles, component identification, and base and filler metal identification. Upon completion, students should be able to identify safe operating practices and principles describing proper cylinder storage and identify base and filler metals.

WDT 151 CUTTING PROCESSES LAB (6-9M) 2-3 credits FORMERLY: WDT 143

This course is designed to instruct students in the safe operation of oxy-fuel, plasma arc, and carbon arc cutting. Topics include safety, proper equipment and setup, and operation of oxy-fuel, plasma arc, and carbon arc cutting equipment with emphasis on straight line, curve, bevel, and gouging operation. Upon completion, students should be able to safely operate oxy-fuel, plasma arc, and carbon arc equipment and perform those operations as per AWS D1.1.

WDT 152 SHIELDED METAL ARC FILLET WELDING (9M) 3 credits PREREQUISITE: WDT 112 or Permission of Instructor

This course introduces the student to the proper setup and operation of the shielded metal arc welding equipment. Emphasis is placed on striking and controlling the arc, and proper fit up for fillet joints. Upon completion, students should be able to make fillet welds in all positions using electrodes in the F3 and F4 groups in accordance with AWS D1.1.

WDT 153 SHIELDED METAL ARC WELDING GROOVES (9M) 3 credits FORMERLY: WDT 191 PREREQUISITE: WDT 112 or Permission of Instructor

This course provides instruction and demonstration in the shielded metal arc welding process on carbon steel plate with various size F3 and F4 group electrodes in all positions. Emphasis is placed on welding groove joints and using various size F3 and F4 group electrodes in all positions. Upon completion, students should be able to make visually acceptable groove weld joints in accordance with AWS D1.1 welding certification procedures.



WDT 154	GAS METAL ARC LAB (9M) FORMERLY: WDT 172 PREREQUISITE: WDT 112 or Permission of Instructor This course provides a period of instruction and demonstration using the various transfer methods of gas metal arc fillet welds. Topics included are safety, equipment setup, joint design and preparation, and gas flow rates. Upon completion, students should be able to perform fillet welds with the prescribed electrodes and transfer mode in various positions.	3 credits	WDT 266	EXPLORING METALWORKING LAB (9M) FORMERLY: WDT 294 PREREQUISITE: WDT 226 or Permission of Instructor This course provides instruction and demonstrations for both hand and power tools to help students build their own projects. Topics include tool and equipment safety, using measuring devices for layout, using hand and power tools to fabricate, and selecting the type of metal and welding process needed to build the project. Upon completion, students should be able to use safe work practices, select material and welding process, and build a project as designed in exploring metal-working theory.	3 credits
WDT 180	SPECIAL TOPICS (1-3T) 1-3 credits 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 agree upon between the student and the instructor.	1-3 credits	WDT 267	GAS TUNGSTEN ARC GROOVE LAB (9M) FORMERLY: WDT 211 PREREQUISITE: WDT 227 or Permission of Instructor This course provides a period of instruction and demonstration with the gas tungsten arc process to produce groove welds, using both ferrous and non-ferrous metals, in all positions, according to AWS D1.1 code. Topics include safe operating principles, equipment setup, joint preparation, and selection of tungsten with emphasis placed on manipulative skills. Upon completion, students should be able to produce groove welds on ferrous and non-ferrous metals using the gas tungsten arc process according to AWS D1.1.	3 credits
WDT 217	SMAW CARBON PIPE THEORY (1-3T, 0-4E, 0-6M) 2-3 credits 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 preparations, and fit-up in accordance with applicable code.	2-3 credits	WDT 268	GAS TUNGSTEN ARC FILLET LAB (9M) FORMERLY: WDT 212 PREREQUISITE: WDT 114 or 132 or Permission of Instructor This course provides a period of instruction and demonstration with the gas tungsten arc process to produce fillet welds, using both ferrous and non-ferrous metals, according to AWS code D1.1. Topics include safe operating principles, equipment setup, and correct selection of tungsten, polarity, shielding gas, and filler metals. Upon completion, students should be able to produce fillet welds on ferrous and non-ferrous metals, using the gas tungsten arc process according to AWS code D1.1.	3 credits
WDT 227	GAS TUNGSTEN ARC GROOVE THEORY (1-3T, 0-4E, 0-6M) FORMERLY: WDT 142 2-3 credits This course introduces the student to the gas tungsten arc welding process as described in AWS D1.1 for groove welding of ferrous and non-ferrous metals. Emphasis is placed on safe operating practices, joint and groove design, flowmeter operation, and amperage settings for each size and type of tungsten. Upon completion, students should be able to explain safe operating practices, purpose of the various tungsten end shapes, and determine correct amperage and flow times and rates.	2-3 credits			
WDT 257	SMAW CARBON PIPE LAB (9M) FORMERLY: WDT 293 COREQUISITE: WDT 217 or Permission of Instructor This course is designed to provide the student with skills in welding carbon steel pipe with the shielded metal arc weld (SMAW) process using electrodes in the F4 and F3 group. Emphasis is placed on welding pipe in the 2G, 5G and 6G positions. Upon completion, students should be able to perform shielded metal arc welding on carbon steel pipe with prescribed electrodes in the 2G, 5G, and 6G positions to the applicable code.	3 credits	WDT 269	BOILER TUBE LAB (9M) FORMERLY: WDT 292 PREREQUISITE: WDT 299 or Permission of Instructor This course is designed to provide the student with the skills in welding boiler tubes using the gas tungsten arc and shielded metal arc welding processes using filler metals in the F6 and F4 groups to applicable code. Emphasis is placed on welding boiler tubes using the gas tungsten arc and shielded metal arc welding process in the 2G and 6G positions in accordance with the applicable code. Upon completion, students should be able to perform gas tungsten arc and shielded metal arc welding on boiler tubes with the prescribed filler metals in the 2G and 6G positions to the applicable code.	3 credits

Course Descriptions

- WDT 270** **SHIELDED METAL ARC
CERTIFICATION LAB (9M)** **3 credits**
FORMERLY: WDT 141
This course is designed to enhance skills with the shielded metal arc welding process on carbon steel plate using groove joints without backing. Emphasis is placed on joint preparation, fit-up, and welding groove joints without backing in the 1G, 2G, 3G, and 4G positions using electrodes in the F3 and F4 group. Upon completion, students should be able to perform groove welds on carbon steel plate with the prescribed electrodes in the 1G, 2G, 3G, and 4G positions in accordance with AWS D1.1 structural welding code.
- WDT 281** **SPECIAL TOPICS IN WELDING
TECHNOLOGY (1-3T, 0-6E, 0-9M)** **3 credits**
This course provides specialized instruction in various areas related to the welding industry. Emphasis is placed on meeting students' needs.

Administration / Faculty / Staff

CALHOUN
COMMUNITY COLLEGE

ADMINISTRATION**OFFICE OF THE PRESIDENT**

CARPENTER, RICHARD G. PRESIDENT. A.A., Southwest Mississippi Community College; B.A., M.Ed., Northwestern State University; Ed.D., North Carolina State University.

HAWKINS, JACKIE, CPS. Secretary to the President.

GREEN, GARY M. EXECUTIVE VICE PRESIDENT. B.A., M.A., Ed.D., University of Kentucky.

GARRISON, DEBI, CPS. Secretary to the Executive Vice President.

O'NEAL, JO NASH. CHIEF ADMINISTRATIVE OFFICER/HUNTSVILLE OPERATIONS. B.A., University of Alabama in Huntsville; M.S., Alabama A & M University; Ed.D., Auburn University.

ALFORD, RODNEY. MATHEMATICS.

BRASHER, CHARLES. Administrative Assistant/Cummings Research Park Campus (p.t.)

BURKE, WAYMON, Ph.D. Division Chair, General Division/Cummings Research Park Campus.

CARROLL, ELOISE. OFFICE ADMINISTRATION.

HILL, B. PATRICIA. Secretary, Admissions & Records/Cummings Research Park Campus.

HILLARD, ANTHONY. General Maintenance.

JOHNSON, DAVID. Weekend Coordinator/Research Park Campus (p.t.)

MYERS, DORIS. Weekend Secretary/Cummings Research Park Campus (p.t.)

NEWMAN, LINDA. Lab Assistant/Cummings Research Park Campus.

OTT, DEBBIE. Administrative Secretary/Cummings Research Park Campus

PAWLUK, BETH. Evening Instructional Support/ Redstone Arsenal Site.

PAWLUK, NICHOLAS. Lab Assistant/Redstone Arsenal Site.

PIEPER, K. BRUCE. Administrative Assistant/Cummings Research Park Campus.

RATCLIFFE, CARL, Ed.D. Instructional Liaison and Counselor/Redstone Arsenal Site.

SALYER, PHYLLIS. Administrative Secretary/Redstone Arsenal Site.

THAMES, ELIZABETH M. ENGLISH/SOCIOLOGY.

USERY, SHARON. Secretary/Cummings Research Park Campus.

YANCEY, JOEY. Military Credit Evaluator/Redstone Arsenal Site

HALL, LAURA. ASSISTANT TO THE PRESIDENT FOR SPECIAL PROJECTS AND INSTITUTIONAL EFFECTIVENESS. B.S., Morris College; M.A., Ohio State University.

ROMBERG, SANDRA. Secretary, Special Projects and Institutional Effectiveness.

CHENAULT, CAROL. INSTITUTIONAL RESEARCH. B.S., Athens College; M.S., Auburn University; Ed.D., The University of Alabama.

HUGHES, SHIRLEY. ASSISTANT TO THE PRESIDENT FOR HUMAN RESOURCES AND COMMUNITY SERVICES. B.S., M.Ed., Alabama A & M University.

GREEN, JOYCE, CPS. Secretary, Human Resources.
LEE, MELONIE. Secretary (p.t.)

LYBARGER, JOHN. DIRECTOR OF INFORMATION SYSTEMS. B.G.S., University of Nebraska; M.A., Webster University; M.A., University of Denver; Ed.S., Ball State University; Additional graduate credits.

COWAN, SHERRIE. Programmer /Operator.

RADFORD, MARILYN. Office Manager.

MARTIN, JANET KINCHERLOW. DIRECTOR OF PUBLIC RELATIONS AND ALUMNI. B.S., Middle Tennessee State University; Additional graduate credits.

BUTLER, BETH. Graphic Designer.

TAYLOR, FELISHA. Secretary, Public Relations.

PARKER, LANITA. Secretary, Public Relations.

SUTTON, MICHAEL A. Sports Information Director.

OFFICE OF BUSINESS AND INDUSTRY SERVICES

SMITH, C. PHILLIP. CHAIRPERSON OF BUSINESS AND INDUSTRY SERVICES. B.S., Auburn University; M.A., The University of Alabama; Additional graduate credits.

HAMPTON, JENNETTA, CPS. Secretary, Business and Industry Services.

FORBES, WILLIAM G. DIRECTOR OF SPECIAL PROGRAMS AND APPRENTICESHIPS. B.A., The University of Alabama; Additional graduate credits.

SMITH, DENNY. TRAINING SPECIALIST. B.S., The University of North Alabama; B.S., Athens State University; Additional graduate credits.

STREET, NANCY. INSTRUCTOR, BUSINESS AND INDUSTRY SERVICES. B.S., The University of Alabama; M.S., The University of North Alabama; Additional graduate credits.

YOUNG, JERROD K. WORKFORCE DEVELOPMENT SPECIALIST/ ADMINISTRATOR. B.S., Mississippi State; M.S.E., The University of Alabama in Huntsville; Additional graduate credits.

OFFICE OF RESOURCE DEVELOPMENT

HANSBERRY, CATHERINE. DIRECTOR OF RESOURCE DEVELOPMENT/FOUNDATION EXECUTIVE DIRECTOR. B.A., M.A., Ed.D., The University of Alabama.

HOUSTON, JANE. Assistant to the Director of Development.

KNIGHTEN, ANITA. Projects Assistant/Secretary.

VOLIN, VANESSA. Accountant.

HOWTON, CLEMENT. ASSOCIATE DIRECTOR OF DEVELOPMENT/
TITLE III PROJECT DIRECTOR. B.S., M.A., The University
of Alabama; Additional graduate credits.

VACANT. Secretary, Grants Development.

OFFICE OF BUSINESS OPERATIONS

DAVIS, DONALD. DEAN FOR BUSINESS OPERATIONS. B.S., Auburn
University.

VACANT. ASSISTANT DEAN/TREASURER/MAINTENANCE.

BAKER, SUSAN. PBX Operator/Receptionist.
BOWEN, BELINDA. Accounts Payable.
DORAN, PAMELA. Office Manager/Training Programs.
HAMES, GLENNA. Payroll.
HANSERD, JOYCE. Secretary, Dean for Business Operations
LARRY, CARLA. General Accounts.
LINDSAY, RENEE. Accounts Clerk.
MCDOLE, SANDRA. Chief Accountant.
NELSON, LAQUITA. Systems Analyst, Business Office &
Financial Aid.
PATTERSON, LISA. Payroll.
ROBERTS, VENITA. Secretary, Scholarships.
SEAL, CAROLYN. Cashier.
TAYLOR, JULIA. Accounts Payable.
McCALEB, SANDY. PBX Operator/Cashier-Evening.
WALLACE, MARIA. Secretary/Refunds, Keys, Vehicles.

BYRD, DEBORAH W. DIRECTOR, STUDENT FINANCIAL SERVICES.
B.A., M.Ed., Alabama A & M University; Additional graduate
credits.

ASHERBRANNER, MARY. Scholarships.
DARWIN, MARILYN. VA Coordinator/Financial Aid
Assistant.
MITCHELL, REGINA. Data Entry Clerk.
RAMSEY, DONNA. Clerk, Work Study.
SCOTT, CHERRI. Evening Clerk.

JETT, BOBBY. DIRECTOR, CAMPUS POLICE. B.S., Troy State
University; Additional graduate credits.

BUTLER, DERRICK. Police/Decatur Campus.
COPELAND, JAMES. Shift Supervisor/Police.
DAVENPORT, KEVIN. Shift Supervisor/Police.
GLASSCOCK, KURT. Security Officer/Decatur Campus.
JORDAN, JOHN. Shift Supervisor/Police.
MCCLUSKY, JACKY. Security Officer/Decatur Campus.
MCMURRY, DAVID. Police/Decatur Campus.
MOONEY, CLABORN. Security Officer/Decatur Campus.
PARTRIDGE, ERIC. Police/Decatur Campus.
SMITH, ALBERT. Security Officer/Decatur Campus.
TERRY, EARNEST. Security Officer/Research Park Campus.
WILLIFORD, DUANE. Security Officer/Decatur Campus.

HOLT, JUNE. BOOKSTORE MANAGER. B.S., Athens State College.

CLARK, ANGIE. Bookstore Clerk/Research Park Campus.
GUTHRIE, WANDA. Bookstore Clerk/Decatur Campus.

NAVE, KATHY. Secretary/Decatur Campus.
WEBB, AIMEE. Evening Bookstore Clerk/Decatur Campus.

POWERS, LANA. SUPERVISOR, PRINTING & MAIL SERVICES
LUNA, MARY. Mail Services.
WHITE, BOBBY. Printing Press Operator/Darkroom
Technician.

WILSON, J.W. MAINTENANCE SUPERVISOR.

BOWEN, MICHAEL. Receiving Clerk.
BRADFORD, GREG. College Vehicle Mechanic.
BUTLER, RUTH. Custodian.
BUTLER, LONNIE. HVAC Mechanic.
CARTER, KEITH. Painter.
CRAWFORD, SHANE. Mail Services.
DAVIS, EZRA. Custodian.
DEAN, BRAD. Carpenter.
FUSCH, HENRI. Grounds/Maintenance.
GILBERT, EARL. Head/HVAC.
JACKSON, DAVID. Grounds/Maintenance.
JENKINS, JOSEPH. HVAC Mechanic.
JENKINS, PHIL. Grounds/Maintenance.
McGUIRE, CLABE. Grounds/Maintenance.
MCLEMORE, DONALD. Grounds/Maintenance.
POWELL, DOUGLAS. Painter.
ROGERS, MELVIN. Grounds/Maintenance.
ROMINE, ELTON. Plumbing/Electrical.
SIMS, RONALD. Grounds Foreman.
TENNISON, ARCHIE. Head Carpenter.
TERRY, BILLY. HVAC Mechanic/Research Park Campus.

OFFICE OF INSTRUCTION

HAMILTON, THERESA. DEAN OF INSTRUCTION. B.S., Auburn
University; M.A., University of North Alabama; Ed.D., The University of
Alabama.

GOOCH, JACKIE. Secretary, Instructional Dean.
MAYO, HARRIET. Office Manager, Instructional Dean.
KNIGHT, JANNETT. Secretary/Evening Program.

BOWDEN, CHARLES. Instructional Computing Assistant.
BUSH, JERRY. Computer Systems Specialist.
MCCLELLAN, JOHN. Networks Manager.

BEDDOW, LUCINDA M. HEAD LIBRARIAN. A.A., Martin College;
B.A., M.L.S., George Peabody College; Additional graduate
credits.

BLALOCK, CARMEN. DISTANCE EDUCATION COORDINATOR. B.S.,
M.S., Ed.D., The University of Alabama.

COX, RANDALL. CHAIRPERSON, DIVISION OF NATURAL SCIENCES.
B.S., United States Military Academy, West Point; M.S.,
Penn State University; Additional graduate credits.

EARNEST, VICKI L. CHAIRPERSON, DIVISION OF HUMANITIES. B.A.,
M.A., Ph.D, The University of Alabama; Additional graduate
credits.

Administration / Faculty / Staff

FLOYD, JANE. CHAIRPERSON, DIVISION OF HEALTH AND PHYSICAL EDUCATION. B.S.N., Lenoir Rhyne College; M.N., Emory University.

HOGAN, LYNN C. COORDINATOR, INSTRUCTIONAL COMPUTING. B.S., M.B.A., University of North Alabama; Ph.D., The University of Alabama.

HUGHES, JAMES G. CHAIRPERSON, DIVISION OF TECHNOLOGIES. A.A.S., Calhoun Community College; B.S., Athens State College.

JOHNSON, DOROTHY B. CHAIRPERSON, DIVISION OF SOCIAL SCIENCES. B.S., Fort Valley State College; M.S., Purdue University; Ed.S., Auburn University.

LOVE, THALIA. DIRECTOR, DEVELOPMENTAL STUDIES PROGRAM. B.S.A., Dillard University; M.A., Southern Illinois University; Ed.D., The University of Alabama.

NEWSOM, OTTIE L. DIRECTOR OF INSTRUCTION/LIMESTONE CORRECTIONAL FACILITY. B.S., M.Ed., Auburn University; Additional graduate credits.

TYLER, G. ELLIOTT. CHAIRPERSON, DIVISION OF MATHEMATICS. B.S., Harding College; M.S., Vanderbilt University; Additional graduate credits.

WOOLF, H. LEE. DIRECTOR, DECATUR EVENING CAMPUS. B.A., M.A., The University of Alabama; Additional graduate credits.

YARBROUGH, MARY M. CHAIRPERSON, DIVISION OF BUSINESS/TECH PREP DIRECTOR. B.S., Ph.D., The University of Alabama; M.S., Auburn University.

LIBRARY

BEDDOW, LUCINDA M. HEAD LIBRARIAN. A.A., Martin College; B.A., M.L.S., George Peabody College; Additional graduate credits.

BRELLENTHIN, BETH. Circulation Assistant/Day (p.t.)

DRINKARD, ROBIN. Circulation Clerk.

GEORGE, NATASHA. Media Services Technician.

MCCRANEY, JEAN. Circulation Assistant/Day (p.t.)

MALCOLM, ANNE. Lead Circulation Assistant.

ST. JOHN, LETHA, CPS. Secretary, Head Librarian

WRIGHT, LINDA. Technical Processes Assistant/Day (p.t.)

CAMPBELL, PEGGY. PERIODICALS LIBRARIAN. B.S., The University of Alabama; M.S., in Library Media, Alabama A & M University.

PARKER, PHILLIP. COORDINATOR OF MEDIA SERVICES. A.S., Calhoun Community College; B.S., Athens State; M.S., Alabama A & M University.

SHAFFER, JUDITH D. INFORMATION SERVICES LIBRARIAN. A.A., Gulf Coast Junior College; B.A., Auburn University; M.L.S., The University of Alabama.

OFFICE OF STUDENT AFFAIRS

O'NEAL, JO NASH. DEAN OF STUDENT AFFAIRS. B.A., University of Alabama in Huntsville; M.S., Alabama A&M University; Ed.D., Auburn University.

BURKS, MATTIE. Secretary, Dean of Student Affairs.

GILLESPIE, DAWN. Secretary, Student Services.

KIRK, JANICE. Secretary, Upward Bound.

LUCAS, VICKI. Secretary, Student Services.

PIEPER, BRUCE. Administrative Assistant, Dean of Student Affairs.

SARTIN, NANCY. Secretary, Student Services.

SWINNEY, CARLA. Administrative Assistant, Dean of Student Affairs.

USERY, SHARON. Secretary, Student Services/Cummings Research Park Campus.

WILLIAMS, DONALD. Evening Site Supervisor.

ATKINS, PEGGY. STUDENT ACTIVITIES OFFICER. A.A.S., Calhoun Community College; B.S., Athens State College; M.S., University of North Alabama.

CAUSEY, JERRY, L.P.C. COUNSELOR, HUNTSVILLE/CUMMINGS RESEARCH PARK CAMPUS. B.S., Athens State College; M.S., University of Alabama in Huntsville; Ed.D., Vanderbilt University.

ENGLE, G. RANDAL. COUNSELOR, UPWARD BOUND. B.A., M.A., The University of Alabama.

HARRISON, IZORA P. DIRECTOR, SERVICES TO SPECIAL STUDENT POPULATIONS (MINORITY AFFAIRS, DISPLACED HOME-MAKERS/ GENDER EQUITY). B.A., Indiana University; M.S., Alabama A & M University; Ed.D., Nova University.

JONES, CHRYSTAL W. VOCATIONAL COUNSELOR. B.S., Athens State College; M.A., University of North Alabama.

RATCLIFFE, CARL J. COUNSELOR AND INSTRUCTIONAL LIAISON, REDSTONE ARSENAL SITE. B.S., University of South Carolina; M.A., Ball State University; Ed.D., Nova University.

SMITH, VIRGINIA H. COUNSELOR, SERVICES TO SPECIAL STUDENT POPULATIONS (ADA). B.A., M.A., The University of Alabama; Additional graduate credits.

STEPHENS, GLORIA. COUNSELOR, ADVISING CENTER. B.A., M.Ed., Auburn University.

SWINFORD, PATRICIA I., COUNSELOR/COORDINATOR, CAREER SERVICES. A.S., Calhoun Community College; B.S., University of North Alabama; M.A., The University of Alabama in Birmingham.

TOSH, WAYNE. DIRECTOR, ADMISSIONS AND REGISTRAR. B.S., Murray State University; M.A., University of Alabama in Birmingham; Ed.D., The University of Alabama.

CORN, CHRISTI A. Transcript Recorder, Records.

HENRY, PAULA. Secretary, Admissions.

LOYD, TAMMY. Secretary, Admissions and Records.
LANDERS, PAT. Secretary, Admissions and Records.
MANSELL, CATHY. Office Manager, Admissions and Records.
REYNOLDS, JEANE. Administrative Assistant to the Registrar.
THOMPSON, ALANNA. Transcript Specialist, Records.
THOMPSON, BARBARA. Transcript Specialist, Records.
TROUSDALE, RADONA. Transcript Processor, Records.
VACANT. Secretary, Admissions and Records.
WHITE, NANCY. Secretary, Admissions and Records.

WESLEY, VINETTA. COUNSELOR, UPWARD BOUND. B.S., Norfolk State University; M.A., Atlanta University; Ed.D., Vanderbilt University.

FACULTY

INSTRUCTIONAL DIVISIONS

DIVISION OF BUSINESS

YARBROUGH, MARY M. (1975) CHAIRPERSON, DIVISION OF BUSINESS/TECH PREP DIRECTOR. B.S., Ph.D., The University of Alabama; M.S., Auburn University.

INGRAM, TAMI. Secretary, Division of Business.
MARTIN, JEAN. Secretary, Tech Prep.
WOOD, LOU. Administrative Assistant/VTTS Lab.

DEPARTMENT OF BUSINESS ADMINISTRATION

ASHFORD, GAYLA B. (1974) CHAIRPERSON, BUSINESS ADMINISTRATION. A.A.S., Calhoun Community College; B.S., Jacksonville State University; M.A.S., The University of Alabama in Huntsville; Ed.D., The University of Alabama.

HANNAH, MYRA. (1982) ACCOUNTING. B.A., M.B.A., University of North Alabama; Ed.D., The University of Alabama.

PAYNE, JAMES. (1991) ECONOMICS. A.S., Danville Junior College; B.S., Illinois State University; M.A., Southern Illinois University; Additional graduate credits.

ROGERS, RITA. (1998) ACCOUNTING LAB ASSISTANT. A.S., West Georgia College; A.S., Calhoun Community College; B.B.A., Athens State College.

SMITH, C. PHILLIP. (1980) BUSINESS ADMINISTRATION/BUSINESS AND INDUSTRY SERVICES. B.S., Auburn University; M.A. The University of Alabama; Additional graduate credits.

STEPHENSON, DENA M. (1983) BUSINESS ADMINISTRATION. B.S., Auburn University; M.S., Ed.S., The University of Alabama in Birmingham; Ph.D., The University of Alabama.

WINSTON, MAZDOLYN. (1970) ACCOUNTING/OFFICE ADMINISTRATION. B.S., M.S., AA Certificate, Alabama A & M University; Additional graduate credits.

DEPARTMENT OF BUSINESS AND PROFESSIONAL SERVICES

RATHBONE, GARY. (1985) CHAIRPERSON, BUSINESS AND PROFESSIONAL SERVICES. A.A.S., Calhoun Community College; B.S. Athens State College.

BROWN, CHERYL. (1993) COSMETOLOGY LAB ASSISTANT. Virginia Farrell Beauty College; Instructor Certification, State of Alabama.

O'SHIELDS, SANDRA N. (1992) COSMETOLOGY. B.S.Ed., Athens State College.

DEPARTMENT OF COMPUTER AND OFFICE INFORMATION SYSTEMS

HOGAN, LYNN C. (1981) CHAIRPERSON, COMPUTER AND OFFICE INFORMATION SYSTEMS. B.S., M.B.A., University of North Alabama; Ph.D., The University of Alabama.

ABUDIAB, NIZAR. (1998) COMPUTER AND OFFICE INFORMATION SYSTEMS. B.S., M.S., McNeese State University.

CARROLL, ELOISE H. (1972) OFFICE ADMINISTRATION. B.S., M.S., Alabama A & M University; Additional graduate credits.

CHEATHAM, ELIZABETH. (1983) COMPUTER INFORMATION SYSTEMS/OFFICE ADMINISTRATION. A.S., Calhoun Community College; B.S., Athens State College; M.A., Ed.S., University of North Alabama; Additional graduate credits.

HAGHIGHI, MICHAEL. (1983) COMPUTER INFORMATION SYSTEMS. B.S., Livingston University; M.S. The University of Alabama in Huntsville; Ed.D., The University of Alabama.

HALLMARK, KEITH C. (1984) COMPUTER INFORMATION SYSTEMS. A.S., Calhoun Community College; B.S., University of North Alabama; M.S., Middle Tennessee State University.

MITCHELL, SUE N. (1983) COMPUTER INFORMATION SYSTEMS. B.S., M.S., The University of Alabama in Huntsville; Ph.D., The University of Alabama.

NEWMAN, LINDA. (1985) COMPUTER LAB ASSISTANT/CUMMINGS RESEARCH PARK CAMPUS. A.A.S., Calhoun Community College; B.S., Athens State College.

PAWLUK, NICHOLAS T. (1988) COMPUTER LAB ASSISTANT/REDSTONE ARSENAL SITE. A.A.S., Calhoun Community College; B.S., Athens State College.

SCOTT, FRIEDA. (1985) A.A.S., Calhoun Community College; B.S., Athens State College; M.B.A., University of North Alabama; Additional graduate credits.

THOMAS, PAUL D. (1984) COMPUTER INFORMATION SYSTEMS. A.S., Northwest Alabama State Junior College; B.S., M.B.A., University of North Alabama; Ph.D., The University of Alabama.

Administration / Faculty / Staff

CALHOUN
COMMUNITY COLLEGE

DIVISION OF HUMANITIES

EARNEST, VICKI L. (1981) CHAIRPERSON. B.A., M.A., Ph.D, The University of Alabama; Additional graduate credits.

CARWILE, MAXIE. Secretary, Department of Language Arts.
KING, AMY. Secretary, Department of Fine Arts.

DEPARTMENT OF FINE ARTS

CANTRELL, JIMMY. (1989) MUSIC. B.S., Athens State College; M.A., Ed.S., University of North Alabama.

GODSEY, WILLIAM A., JR. (1985) THEATRE. B.S., University of North Alabama; M.A., Memphis State University; Additional graduate credits.

GOREE, JOAN A. (1971) MUSIC. A.S., Calhoun Community College; B.S., Athens State College; M.A., University of North Alabama.

LOWMAN, JOYCE. (1989) MUSIC. B.M.E., University of Central Arkansas; M.A., University of North Alabama.

MOSS, FRANCES. (1966) MUSIC. B.S., Jacksonville State University, M.A., Ed.D., University of Alabama; D.Min., Covington Theological Seminary.

PROVIN, WILLIAM H. (1983) THEATRE. B.S., M.S., Canisius College; M.B.A., University of Mississippi.

DEPARTMENT OF LANGUAGE ARTS

BANKS, PATRICIA A. (1981) ENGLISH/SPANISH. B.S., M.A., The University of Alabama; Additional graduate credits.

BARHAM, THOMAS J. (1998) SPEECH. B.A., Louisiana State University; M.A., University of Kansas; Additional graduate credits.

BOLDEN, JOAN E. (1970) ENGLISH. B.A., South Carolina State College; M.A., Atlanta University; J.D., Miles College School of Law.

BYRD, SHEILA. (1986) ENGLISH. B.S., Athens State College; M.A., The University of Alabama in Huntsville; D.A., Middle Tennessee State University.

CHADWICK, JILL. (1983) ENGLISH. B.A., M.A., University of Montevallo.

CROSS, RANDY K. (1982) ENGLISH. B.S., M.A., University of North Alabama; Ph.D., The University of Mississippi.

FAULKNER, MARY ANN. (1981) ENGLISH, READING. B.A., The University of Alabama; M.A., Samford University.

FLUM, NEAL H. (1988) SPEECH. B.A., M.A., The University of Alabama.

GARRETT, MARY ELLEN. (1989) ENGLISH. B.S., University of Montevallo; M.A., University of North Alabama; Additional graduate credits.

CALATRELLO, STEPHEN A. (1998) ENGLISH. A.A., El Camino College; B.A., University of California Los Angeles; M.A., California State Long Beach; Additional graduate credits.

GODSEY, WILLIAM A., JR. (1985) SPEECH. B.S., University of North Alabama; M.A., Memphis State University; Additional graduate credits.

HAINES, REBECCA C. (1982) ENGLISH. B.S., M.A., The University of Alabama; Additional graduate credits.

HALL, CHRISTOPHER. (1987) ADULT LITERACY. B.S., M.S., Alabama A & M University.

JAMES, GLENDA G. (1982) ENGLISH. B.S., David Lipscomb University; B.S., M.A.Ed., Ed.S., University of North Alabama; Additional graduate credits.

MOORE, HARRY V. (1974) ENGLISH. B.S., Auburn University; M.A., Rice University; D.A., Middle Tennessee State University.

PROVIN, WILLIAM H. (1983) ENGLISH. B.S., M.S., Canisius College; M.B.A., University of Mississippi.

SUMMERLIN, MITCHELL. (1983) ENGLISH. B.A., University of Central Florida; M.A., Old Dominion University; Ph.D., University of Georgia.

THAMES, ELIZABETH M. (1992) ENGLISH. B.S., The University of Alabama; M.S.W., University of North Carolina; M.A., The University of Alabama in Huntsville.

DIVISION OF MATHEMATICS

TYLER, G. ELLIOTT. (1978) CHAIRPERSON, DIVISION OF MATHEMATICS. B.S., Harding College; M.S., Vanderbilt University; Additional graduate credits.

SMITH, BEVERLY. Secretary, Division of Mathematics.

ALFORD, RODNEY. (1993) MATHEMATICS. B.S., Auburn University; M.Ed., Alabama A&M University.

BATES, SARAH. (1988) MATHEMATICS. B.S., Central Missouri State University; M.S.T., The University of Nebraska; Additional graduate credits.

BLACKWELL, KAY. (1983) MATHEMATICS. B.S., Athens State College; M.A., University of North Alabama.

DRISKELL, KAREN. (1990) MATHEMATICS. B.S., Athens State College; M.A., University of North Alabama.

JOINER, SUZANNE. (1983) MATHEMATICS. B.A., Athens State College; M.A., The University of Alabama in Huntsville.

JONES, ANNIE. (1975) MATHEMATICS. B.S., Miles College; M.S., The University of Alabama in Birmingham.

MALONE, JUANA. (1996) MATHEMATICS. B.S., The University of Alabama in Huntsville; M.B.A., Florida Institute of Technology.

MAXFIELD, CECILIA HOLT. (1976) MATHEMATICS. B.A., University of North Alabama; M.S., University of Kentucky; Additional graduate credits.

MCCOLLUM, J. MICHAEL. (1981) MATHEMATICS. B.S., M.A., M.B.A., The University of Alabama; Additional graduate credits.

SNEAD, CYNTHIA. (1988) MATHEMATICS. B.S., New York College; M.A., Ed.D., Columbia University.

DEVELOPMENTAL STUDIES

LOVE, THALIA F. (1990) DIRECTOR, DEVELOPMENTAL STUDIES. B.S.A., Dillard University; M.A., Southern Illinois University; Ed.D., The University of Alabama.

DIVISION OF HEALTH AND PHYSICAL EDUCATION

FLOYD, JANE. (1986) CHAIRPERSON, DIVISION OF HEALTH AND PHYSICAL EDUCATION. B.S.N., Lenoir Rhyne College; M.N., Emory University.

GOSS, JOANN. Secretary, Division of Health and Physical Education.

JOHNSON, JACKIE. Secretary, Department of Physical Education/Athletics.

LECROIX, ANNETTE. Secretary, Department of Nursing.

WAGNON, ANN. Secretary, Department of Allied Health.

DEPARTMENT OF ALLIED HEALTH

VACANT. CHAIRPERSON, DEPARTMENT OF ALLIED HEALTH.

BEASLEY, BRENDA. (1996) DIRECTOR, EMERGENCY MEDICAL SERVICES. A.A.S., Gadsden State; B.S., University of Alabama.

BREACH, JOANN. (1986) PRACTICAL NURSING. Diploma, Utica State Hospital; B.S.N., M.S.N., The University of Alabama.

FERGUSON, KAREN. (1997) PRACTICAL NURSING. B.S.N., Birmingham Southern College; M.S.N., University of South Alabama.

HOLSONBACK, PEGGY L. (1973) PRACTICAL NURSING. Diploma, University Hospital School of Nursing; B.S., Athens State College.

KING, WILLIE A. (1993) PRACTICAL NURSING. A.A.S., Calhoun Community College; B.S.N., M.S.N., The University of Alabama in Huntsville.

RANGE, SHARON. (1993) PRACTICAL NURSING. B.S., University of Alabama in Huntsville; Additional graduate credits.

STUECK, PATRICIA. (1977) DENTAL ASSISTING DIRECTOR. A.S., Calhoun Community College; B.S., Athens State College; M.A., University of North Alabama.

TAYLOR, JARROD. (1996) EMERGENCY MEDICAL SERVICES. A.A.S. Calhoun Community College.

DEPARTMENT OF NURSING

PEEK, JAN. (1973) CHAIRPERSON, DEPARTMENT OF NURSING. B.S.N., Jacksonville State University; M.S.N., The University of Alabama; additional graduate credits.

ADAMS, ELLISE. (1996) NURSING. B.S.N., The University of Alabama in Huntsville; M.S.N., Case Western Reserve University.

ANDERSON, NAN. (1998) NURSING. A.D.N., B.S.N., Mississippi University for Women; M.S.N., University of Alabama in Huntsville.

ARMSTRONG, JANICE. (1984) NURSING. Diploma, Crawford W. Long Hospital of Emory University; B.S., Athens State College; M.S.N., Family Nurse Practitioner Certificate, The University of Alabama in Huntsville.

BECKWITH, IDENA. (1992) NURSING. B.S.N. University of North Alabama; M.S.N., The University of Alabama in Huntsville.

BIANCHI, ANN. (1996) NURSING. A.A.S., Ferrum College; B.S.N., George Mason University; M.S.N., The University of Alabama in Huntsville.

COVELLI, CORINNE. (1977) NURSING. B.S.N., The University of Alabama in Huntsville; M.S.N., The University of Alabama in Birmingham.

FITE, KAREN. (1979) NURSING. B.S.N., M.S.N., The University of Alabama in Birmingham.

JENKINS, VIRGINIA. (1974) NURSING. B.S., M.A., The University of Alabama; B.S.N., The University of Alabama in Huntsville; M.S.N., The University of Alabama in Birmingham; Additional graduate credits.

MUELLER, MARY E. (1986) NURSING. B.A., University of Utah; B.S.N., University of North Alabama; M.S.N., The University of Alabama.

PISANI, MARGARET GAIL. (1989) NURSING. B.S.N., M.S.N., The University of Alabama in Huntsville.

WHITLEY, JENNIFER. (1994) NURSING. A.D.N., Jefferson State Junior College; B.S.N., M.S.N., The University of Alabama in Huntsville.

DEPARTMENT OF PHYSICAL EDUCATION

KING, MYRA B. (1976) CHAIRPERSON, DEPARTMENT OF PHYSICAL EDUCATION/ATHLETIC DIRECTOR. A.S., Calhoun Community College; B.S., Athens State College; M.S., University of North Alabama; Additional graduate credits.

COCHRAN, GINA. (1992) WELLNESS CENTER DIRECTOR / CHEER-LEADER COACH. B.S., Athens State College; M.A., University of North Alabama.

DOUGLAS, JOHN D. (1993) PHYSICAL EDUCATION/MEN'S BASKETBALL COACH. A.S., Calhoun Community College; B.S., University of Kansas; M.A., University of North Alabama.

Administration / Faculty / Staff

KEENUM, NANCY E. (1984) PHYSICAL EDUCATION/SOFTBALL COACH. A.S., Calhoun Community College; B.S., The University of Alabama; M.A., University of North Alabama; Additional graduate credits.

MARKS, AMANDA L. (1996) WOMEN'S BASKETBALL COACH/WELLNESS CENTER ASSISTANT. B.S., University of North Alabama; M.A., University of North Alabama.

SHARMAN, MICHAEL. (1977) PHYSICAL EDUCATION. B.S., M.A., The University of Alabama in Birmingham; Additional graduate credits.

SUTTON, MICHAEL A. (1976) PHYSICAL EDUCATION/ SPORTS INFORMATION DIRECTOR. B.S., Berry College; M.S., University of Tennessee; Additional graduate credits.

DIVISION OF NATURAL SCIENCES

COX, RANDALL L. (1991) CHAIRPERSON, DIVISION OF NATURAL SCIENCES. B.S., United States Military Academy, West Point; M.S., Penn State University; Additional graduate credits.

LAMBERT, PATRICIA S. Secretary, Division of Natural Sciences.

CAUDLE, SANDRA. (1988) BIOLOGY. B.S., M.A.C.T., Western Kentucky University; Additional graduate credits.

COLLIER, G. DONALD. (1980) BIOLOGY. B.S., Athens State College; M.S., Tennessee Technological University; Ph.D., Utah State University.

CURRIN, BEN L. (1979) CHEMISTRY/ASTRONOMY. B.S., Athens State College; M.S., Ph.D., Vanderbilt University.

DUKE, JAMES F. (1987) BIOLOGY. B.S., M.A.C.T., Auburn University.

GRAHAM, JAMES. (1968) CHEMISTRY. B.A., Huntingdon College; M.S., The University of Alabama; Additional graduate credits.

HUFFMAN, DONNA. (1984) BIOLOGY LAB ASSISTANT. B.S., Emory University; M.A.T., The Citadel.

LOWERY, LINDA W. (1990) SCIENCE LEARNING CENTER LAB ASSISTANT. B.S., University of North Alabama; M.S., University of North Alabama.

PARMLEY, M. WAYNE. (1993) PHYSICS. B.S., Arkansas Tech; M.S., Oklahoma State University; Ph.D., Texas A&M University.

PERRY, LESLIE S. (1976) CHEMISTRY. B.S., University of Georgia; M.A., University of North Alabama; Additional graduate credits.

RUSSELL, JOHN R. III. (1975) BIOLOGY. B.S., Athens State College; M.S., Tennessee Technological University; A.B.D., University of Tennessee.

RUSSELL, TRUDYE L. (1978) CHEMISTRY LAB ASSISTANT. B.A., Vanderbilt University.

WILLIAMS, GEORGE O., JR. (1973) BIOLOGY. A.A., Florida College; B.S., Athens State College; M.S., Tennessee Technological University; Additional graduate credits.

DIVISION OF TECHNOLOGIES

HUGHES, JAMES G. (1979) CHAIRPERSON, DIVISION OF TECHNOLOGIES. A.A.S., Calhoun Community College; B.S., Athens State College.

SOMMERVILLE, ROBERTA. Secretary, Division of Technologies.

BLIZZARD, MIKE. (1985) MACHINE TOOL TECHNOLOGY. A.A.S., Calhoun Community College; B.S., Athens State College.

EAVES, LARRY. (1996) ELECTRICITY. B.S., Mississippi State University.

JIMERSON, GLEN. (1987) CONSTRUCTION TRADES. A.A.S., Northeast Alabama State Junior College.

LOWERY, DWIGHT. (1998) DRAFTING LAB ASSISTANT.

PARTON, BEN. (1991) REFRIGERATION AND AIR CONDITIONING. A.A.S., Calhoun Community College; B.S., Athens State College.

PARKER, CHARLES LYNN. (1985) DRAFTING. Vocational Diploma, Calhoun Community College.; B.S., Athens State College.

PORTER, JOSEPH. (1970) WELDING. Vocational Certificate, Alabama A & M University; Vocational Diploma, Calhoun Community College.

REESE, WILLIAM TOM. (1986) AUTO MECHANICS. B.S., Athens State College.

RICHARDSON, JOSEPH. (1972) MACHINE TOOL TECHNOLOGY. A.A.S., Calhoun Community College; B.S., Athens State College.

SCOTT, JIMMY. (1988) AUTO BODY REPAIR. College credit in Auto Body Repair, Calhoun Community College; B.S. Athens State College.

TAYLOR, RONALD M. (1997) ELECTRICITY. A.A.S., Shoals Community College.

TEAGUE, THOMAS. (1972) UPHOLSTERY. A.A.S., Calhoun Community College; B.S., Athens State College.

TEPPER, WILLIAM L. (1983) ELECTRONICS. B.S., Athens State College.

WILLIAMSON, HOYT E., JR. (1979) HORTICULTURE. B.S., Auburn University; M.S., Alabama A & M University.

DIVISION OF SOCIAL SCIENCES

JOHNSON, DOROTHY B. (1969) CHAIRPERSON, DIVISION OF SOCIAL SCIENCES. B.S., Fort Valley State College; M.S., Purdue University; Ed.S., Auburn University.

JOHNSON, JUDY. Secretary, Division of Social Sciences.

NEWTON, PATRICIA. Teacher, Child Development Laboratory.

SATTERFIELD, SUSAN. Teacher, Child Development Laboratory.

ARMOR, JERRY. (1984) CRIMINAL JUSTICE AND PUBLIC SAFETY. B.A., Samford University; M.S., Troy State University; Ph.D., The University of Alabama.

BLALOCK, CARMEN. (1972) SOCIOLOGY. B.S., M.S., Ed.D., The University of Alabama.

CHENAULT, CAROL. (1981) SOCIOLOGY. B.S., Athens College; M.S., Auburn University; Ed.D., The University of Alabama.

EL-AMIN, HAMEED. (1983) PSYCHOLOGY. B.A., Morehouse College; M.S., Ph.D., University of Massachusetts.

FELTS, DELL. (1987) HISTORY AND POLITICAL SCIENCE. B.A.E., M.S.S., University of Mississippi; Ed.D., The University of Alabama.

KING, J. CRAWFORD, Jr. (1990) HISTORY. B.A., M.A., Ph.D., The University of Alabama.

LUSTER, GLADYS. (1971) HISTORY. B.S., M.S., Alabama A & M University; Additional graduate credits.

NORWOOD, RON. (1992) PARALEGAL. J.D., Columbia University School of Law; LL.M., The University of Alabama School of Law.

SIMMONS, ROBERT B. (1966) HISTORY. B.S., The University of Alabama; B.A., M.A.T., Athens State College; M.A.S., University of Alabama in Huntsville; Ed.S., Vanderbilt University.

STOVALL, BEVERLY. (1986) CHILD DEVELOPMENT. B.S., Athens State College; M.A., University of North Alabama; Additional graduate credits.

GENERAL DIVISION HUNTSVILLE/RESEARCH PARK CAMPUS

BURKE, WAYMON E. (1981) CHAIRPERSON, GENERAL DIVISION/RESEARCH PARK. A.S., Calhoun Community College; B.A., University of Montevallo; M.Ed., Alabama A&M University; Ph.D., The University of Alabama.

BRASHER, CHARLES. Administrative Assistant/Cummings Research Park Campus (p.t.)

HILL, B. PATRICIA. Secretary, Admissions & Records/Cummings Research Park Campus.

VACANT. Secretary/Cummings Research Park Campus

JOHNSON, DAVID. Weekend Coordinator/Research Park Campus (p.t.)

MYERS, DORIS. Weekend Secretary/Cummings Research Park Campus (p.t.)

NEWMAN, LINDA. Lab Assistant/Cummings Research Park Campus.

OTT, DEBBIE. Administrative Secretary/Cummings Research Park Campus

PIEPER, K. BRUCE. Administrative Assistant/Cummings Research Park Campus.

USERY, SHARON. Secretary/Cummings Research Park Campus.

ALFORD, RODNEY. (1993) MATHEMATICS. B.S., Auburn University; M.Ed., Alabama A&M University.

CARROLL, ELOISE. (1972) OFFICE ADMINISTRATION. B.S., M.S., Alabama A & M University; Additional graduate credits.

THAMES, ELIZABETH M. (1992) ENGLISH/SOCIOLOGY. B.S., The University of Alabama; M.S.W., University of North Carolina; M.A., The University of Alabama in Huntsville.

LIMESTONE CORRECTIONAL FACILITY

NEWSOM, OTTIE L. (1978) DIRECTOR OF INSTRUCTION. B.S., M.Ed., Auburn University; Additional graduate credits.

McKAY, PAT. Secretary.

HALL, CHRISTOPHER. (1987) ADULT LITERACY. B.S., M.S., Alabama A & M University.

JIMERSON, GLEN. (1987) CONSTRUCTION TRADES. A.A.S., Northeast Alabama State Junior College.

PARKER, CHARLES LYNN. (1985) DRAFTING. Vocational Diploma, Calhoun Community College; B.S., Athens State College.

PORTER, JOSEPH. (1970) WELDING. Vocational Certificate, Alabama A & M University; Vocation Diploma, Calhoun Community College.

REESE, WILLIAM TOM. (1986) AUTO MECHANICS. B.S., Athens State College.

RICHARDSON, JULIUS. (1998) AUTO MECHANICS-CONSTRUCTION-UPHOLSTERY LAB ASSISTANT. A.S., Science, Central Texas College.

SCOTT, JIMMY. (1988) AUTO BODY REPAIR. College credit in Auto Body Repair, Calhoun Community College; B.S., Athens State College.

TEAGUE, THOMAS. (1972) UPHOLSTERY. A.A.S., Calhoun Community College; B.S., Athens State College.

WILLIAMS, TERRY. (1998) AUTO BODY-HORTICULTURE-WELDING LAB ASSISTANT. Welding Diploma, Muscle Shoals State Technical College.

WILLIAMSON, HOYT E. JR. (1979) HORTICULTURE. B.S., Auburn University; M.S., Alabama A & M University.

Administration / Faculty / Staff**REDSTONE ARSENAL SITE**

RATCLIFFE, CARL J. INSTRUCTIONAL LIAISON AND COUNSELOR.

B.S., University of South Carolina; M.A., Ball State
University; Ed.D., Nova University.

PAWLUK, BETH. Evening Instructional Support.

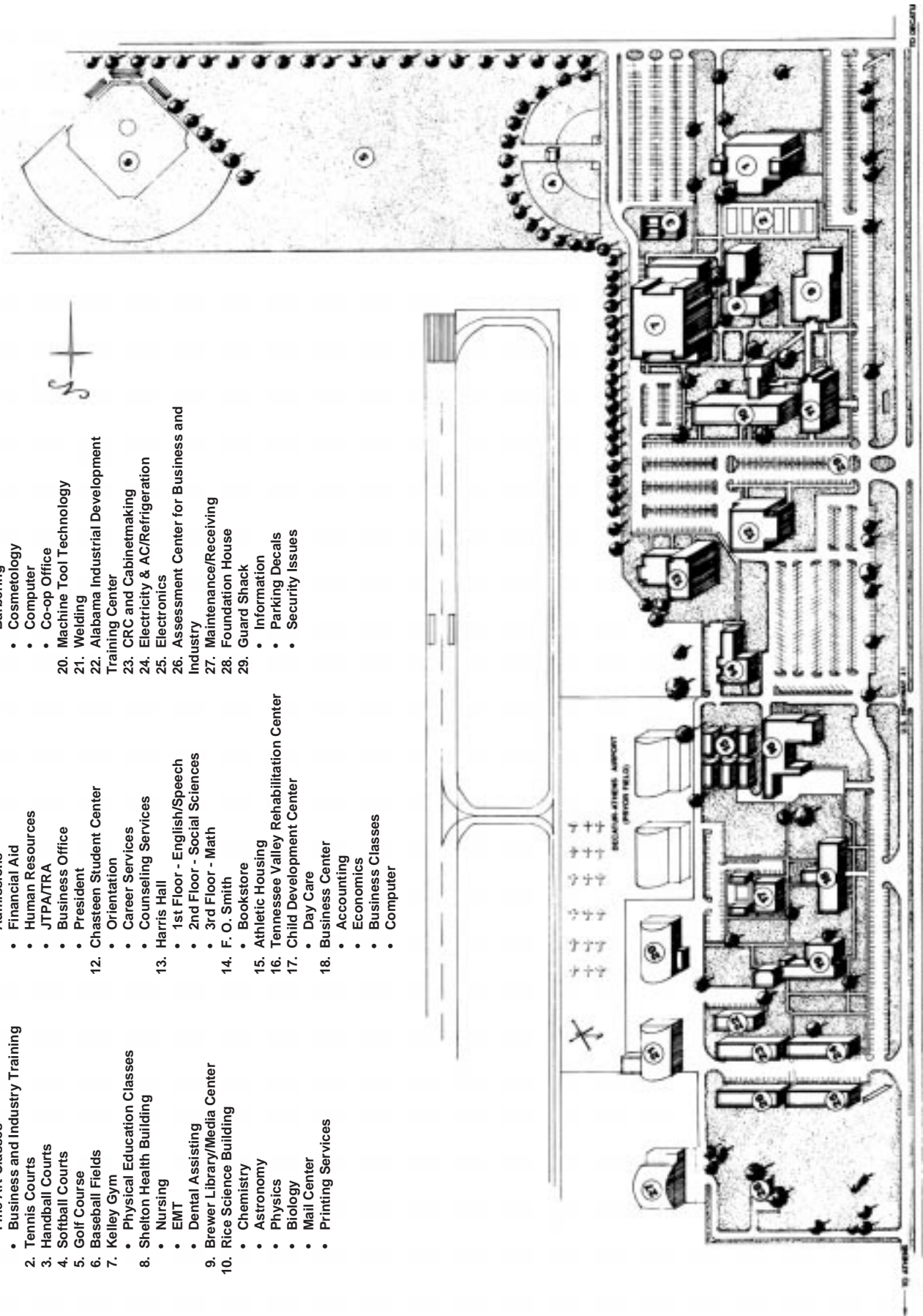
PAWLUK, NICHOLAS. Computer Lab Assistant.

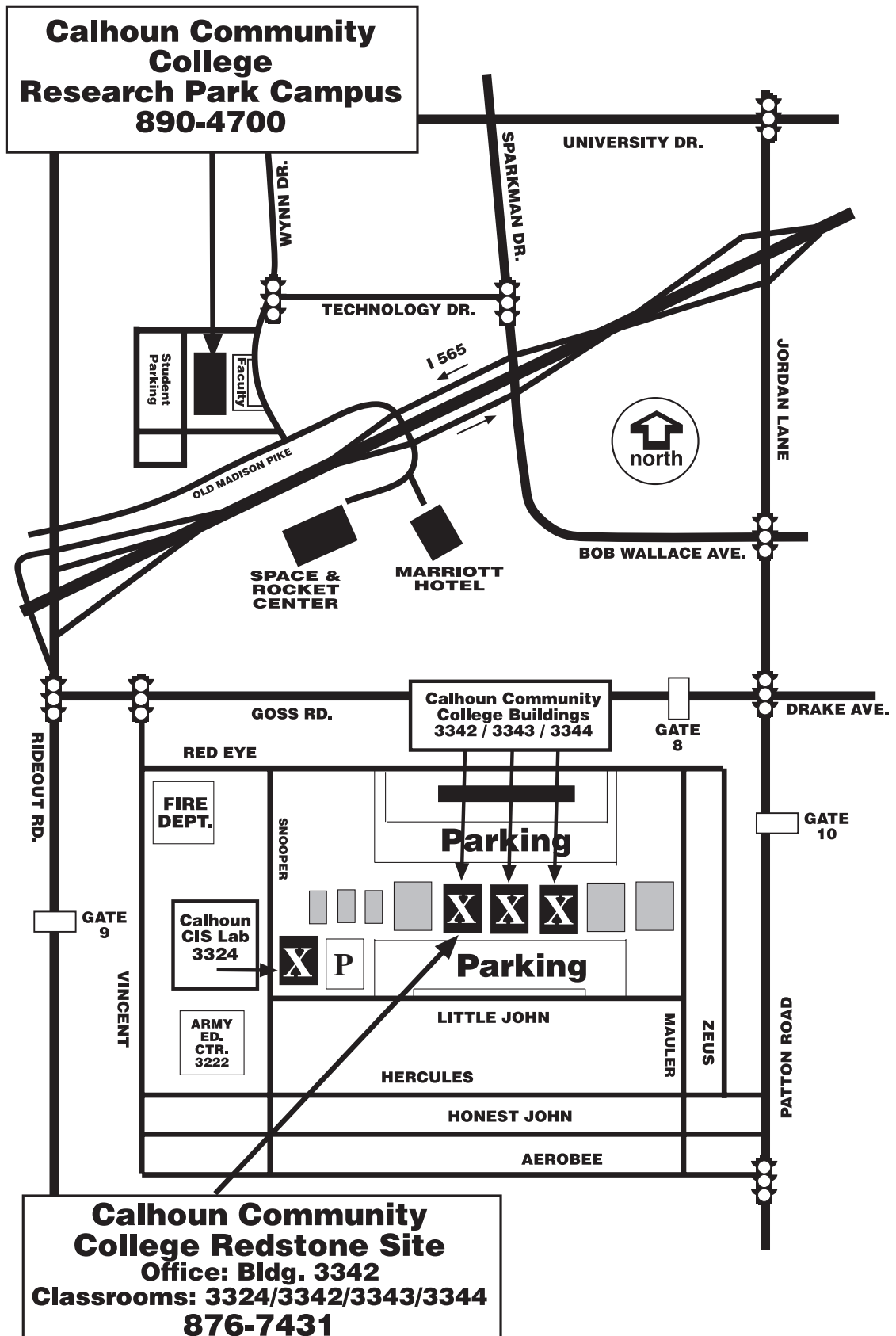
SALYER, PHYLLIS. Administrative Secretary.

YANCEY, JOEY. Military Evaluator.

*Note: Date listed with each faculty member indicates the year of
the initial employment with Calhoun Community College.*

1. Fine Arts Building
 - Fine Art Classes
 - Business and Industry Training
2. Tennis Courts
3. Handball Courts
4. Softball Courts
5. Golf Course
6. Baseball Fields
7. Kelley Gym
 - Physical Education Classes
8. Shelton Health Building
 - Nursing
 - EMT
 - Dental Assisting
9. Brewer Library/Media Center
10. Rice Science Building
 - Chemistry
 - Astronomy
 - Physics
 - Biology
 - Mail Center
 - Printing Services
11. Wallace Administration Building
 - Admissions
 - Financial Aid
 - Human Resources
 - JTPA/TRA
 - Business Office
 - President
12. Chasteen Student Center
 - Orientation
 - Career Services
 - Counseling Services
13. Harris Hall
 - 1st Floor - English/Speech
 - 2nd Floor - Social Sciences
 - 3rd Floor - Math
14. F. O. Smith
 - Bookstore
15. Athletic Housing
16. Tennessee Valley Rehabilitation Center
17. Child Development Center
 - Day Care
18. Business Center
 - Accounting
 - Economics
 - Business Classes
 - Computer
19. Noble Russell Hall
 - Barbering
 - Cosmetology
 - Computer
 - Co-op Office
 - Machine Tool Technology
20. Welding
21. Alabama Industrial Development Training Center
22. CRC and Cabinetmaking
23. Electricity & AC/Refrigeration
24. Electronics
25. Assessment Center for Business and Industry
26. Maintenance/Receiving
27. Foundation House
28. Guard Shack
 - Information
 - Parking Decals
 - Security Issues





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The Alabama College System

Vision, Mission, Goals, and Objectives

Vision Statement

The Alabama College System believes education improves the life of every individual and advances society as a whole.

Mission Statement

The Alabama College System, consisting of public two-year community, junior, and technical colleges and an upper division university, seeks to provide accessible quality educational opportunities, promote economic growth, and enhance the quality of life for the people of Alabama.

Goals

- To provide accessible quality educational opportunities.
- To promote economic growth.
- To enhance the quality of life.

Objectives

The Alabama College System shall provide:

- General education and other collegiate programs at the freshman and sophomore levels that prepare students for transfer to other colleges and universities.
- Technical, vocational, and career education that prepares students for immediate employment, retrains existing employees, and promotes local and state economic stability and competitiveness.
- An upper division university that provides selected baccalaureate opportunities for students within the postsecondary system.
- Developmental education that assists individuals in improving learning skills and overcoming educational deficiencies.
- Student services and activities that assist individuals in formulating and achieving their educational goals.
- Learning resources that support the needs of the institution and the community.
- Business and industry development training that meets employer needs.
- Continuing education and personal enrichment opportunities that support life-long learning and the civic, social, and cultural quality of life.
- Expanded partnerships with schools and school systems in the state to deliver seamless educational options and supportive articulation services.