

# Angelina College

## **2024-2025 CATALOG**

The mission of Angelina College is to provide quality educational opportunities and services to aid students and the community in reaching their full potential.

March 1, 2024

The College reserves the right to select the courses offered during any semester, and the College does not offer all courses listed in the catalog each semester or each academic year. Each semester, the College produces an online course schedule listing those courses offered in that semester. The College publishes each semester's course schedule as early as possible before the beginning of the semester.

### **College Contact Information**

Students, prospective students, and the public may contact Angelina College using the following:

Mailing Address

Angelina College  
P. O. Box 1768  
Lufkin, Texas 75902-1768

Main Campus Location

3500 South First Street (Highway 59)  
Lufkin, Texas 75901

Telephone

Main Telephone (936) 639-1301  
Main Fax (936) 639-4299

Website

[www.angelina.edu](http://www.angelina.edu)

# Table of Contents

<b>LIST OF TABLES .....</b>	<b>9</b>
<b>ABOUT ANGELINA COLLEGE.....</b>	<b>9</b>
College History.....	10
Taxing District and Service Area .....	10
Board of Trustees .....	10
Program Accreditation .....	11
Program Approval .....	11
Mission Statement .....	12
Vision Statement .....	12
Strategic Goals.....	12
Flex Courses.....	13
Drops and Withdrawals from Courses .....	13
2024-2025 Calendar* .....	14
<b>ADMISSIONS METHODS AND DOCUMENTATION .....</b>	<b>20</b>
Contact Information for Admissions .....	20
Methods of Admission .....	20
Conditional Admission:.....	22
Admission Authority and Readmission Appeals.....	22
Required Admission Documents .....	22
Requirement for Bacterial Meningitis Vaccination Before Enrollment.....	23
AC Student Email and Official Communication .....	23
<b>STUDENT CLASSIFICATION, TUITION, AND FEES.....</b>	<b>24</b>
Student Classifications.....	24
Tuition and Fees .....	24
Mandatory and Required Incidental Fees .....	24
Tuition Installment Plan .....	24
Tuition and Fees – Limitations.....	25
Refund Regulations .....	28
Additional Regulations .....	29
Financial Information for Student Housing and Dining Services .....	30
<b>FINANCIAL AID PROCESSES AND REGULATIONS .....</b>	<b>32</b>
Types of Student Financial Aid Available at AC.....	32
Financial Aid Deadlines.....	33
Satisfactory Academic Progress Policy .....	33
Financial Aid Refund Policy.....	35
General Refund Policy .....	36

Financial Aid Return to Title IV Policy.....	37
Veterans Benefits and Related Processes .....	38
Angelina College Scholarships .....	40
Student Consumer Information .....	40
<b>ACADEMIC AFFAIRS DIVISION.....</b>	<b>42</b>
<b>COLLEGE SERVICES .....</b>	<b>42</b>
Academic Advising Services .....	42
Library/Learning Resource Center .....	42
Tutoring Center .....	43
Testing Center .....	44
<b>DISTANCE EDUCATION .....</b>	<b>44</b>
Secure Username and Password .....	45
Regular and Substantive Interaction (RSI) .....	45
Academic Engagement .....	45
Online Proctored Exams .....	46
Off-Campus Instructional Sites .....	46
<b>STUDENT AFFAIRS DIVISION .....</b>	<b>47</b>
Office of Student Affairs .....	47
Title IX .....	47
Student Support Services.....	47
Disability Support Services.....	48
Residence Life .....	48
International Students .....	49
Other Campus Activities .....	49
<b>BUSINESS AFFAIRS DIVISION .....</b>	<b>50</b>
Campus Police Department.....	50
Information Technology (IT) Helpdesk.....	50
AC Portal.....	50
Office of Human Resources (HR).....	51
Business Office .....	51
Physical Plant Operations.....	51
Campus Store .....	52
Grants & Sponsored Programs.....	52
<b>STUDENT SERVICES DIVISION .....</b>	<b>53</b>
Office of Admissions .....	53
Office of Financial Aid .....	53
Athletics .....	53
<b>WORKFORCE &amp; CONTINUING EDUCATION DIVISION .....</b>	<b>54</b>
Nonprofit Leadership Center (NPLC).....	55

Small Business Development Center (SBDC).....	55
Workforce & Continuing Education Programs .....	55
Allied Health.....	55
Medical Assistant .....	56
Electrocardiograph (EKG) Technician .....	56
Medication Aide .....	56
Nurse Aide .....	56
Patient Care Technician.....	57
Phlebotomy Technician.....	57
Business & Industry.....	57
Forklift Operator.....	57
Heavy Equipment Operator.....	57
Truck Driving – Class A Commercial Driver License (CDL) .....	58
Public Safety.....	58
Fire Academy.....	58
Angelina College Regional Law Enforcement Academy .....	58
Non-Credit Basic Peace Officer Course (Law Enforcement Academy)   Pell Eligible Program   756 Hours .....	59
Risk Management and Safety.....	59
Customized Workforce Training.....	59
Cultural and Personal Interest .....	59
Camp Roadrunner.....	59
<b>GENERAL ACADEMIC INFORMATION .....</b>	<b>60</b>
Definitions .....	60
Numbering of Courses.....	60
Texas Success Initiative .....	61
Course Schedule Changes.....	65
Dropping a Course .....	65
Withdrawal from College.....	66
STOP – Don’t Drop .....	66
Auditing a Course .....	66
System for Grading.....	66
Grade Points .....	67
How to Calculate Your Grade Point Average (GPA) .....	67
Grade Appeal Process.....	68
Academic Honors and Recognition .....	68
Common Course Numbering System .....	68
Articulation Between Angelina College and Certain University Programs.....	68
Resolution of Disputes Concerning Transfer of Lower-Division Courses .....	69

Tuition Rebate for Certain Undergraduates.....	69
Transfer Limitations.....	69
Texas Direct .....	70
Academic Fresh Start.....	70
<b>ACADEMIC REQUIREMENTS.....</b>	<b>70</b>
Attendance Requirement.....	70
Copyright Compliance Requirement .....	70
Grade Point Average Requirement .....	70
Graduation Requirements.....	72
Reverse Transfer.....	73
Second Associate Degree Requirements (Multiple Degrees) .....	73
<b>STUDENT ACADEMIC RECORDS.....</b>	<b>73</b>
Release of Student Information .....	73
Review of Records Appeal .....	74
<b>STUDENT RIGHTS AND RESPONSIBILITIES.....</b>	<b>74</b>
Notice of Nondiscrimination .....	74
Student Conduct and Discipline Program .....	75
Graduate Guarantee Program.....	75
Guarantee of Job Competency.....	76
<b>DEGREES AND CERTIFICATES .....</b>	<b>76</b>
Types of Degrees and Certificates at Angelina College .....	77
Core Curriculum Description .....	78
<b>ANGELINA COLLEGE PATHWAYS .....</b>	<b>80</b>
<b>SCHOOL OF ARTS AND EDUCATION .....</b>	<b>81</b>
GENERAL STUDIES .....	82
Associate of Arts in General Studies .....	82
Associate of Arts in Health and Physical Education .....	84
Associate of Arts in Teaching .....	86
Associate of Arts in Visual Arts .....	88
GRAPHIC ARTS - DESIGN AND APPLIED ARTS .....	90
Associate of Applied Science in Design and Applied Arts – Graphic Arts .....	90
Level 1 Certificate in Design and Applied Arts – Graphic Arts.....	94
Level 3 Enhanced Skills Certificate in Design and Applied Arts – Graphic Arts .....	93
MUSIC.....	94
Associate of Arts in Music.....	94
THEATER .....	98
Associate of Arts in Theater .....	98
<b>SCHOOL OF BUSINESS AND TECHNOLOGY.....</b>	<b>100</b>
BUSINESS ADMINISTRATION AND MANAGEMENT .....	100

Associate of Arts with Field of Study in Business Administration and Management .....	101
BUSINESS AND SUPERVISION .....	104
Associate of Applied Science in Business and Supervision .....	104
Level 1 Certificate in Business and Supervision .....	106
CHILD AND FAMILY DEVELOPMENT .....	107
Associate of Applied Science in Child and Family Development .....	108
Level 1 Administrative Certificate in Child and Family Development.....	110
Level 1 Certificate in Child and Family Development .....	112
Level 1 Certificate in Child Development (CDA) .....	113
COMPUTER INFORMATION TECHNOLOGY.....	115
Associate of Applied Science in Network Administration.....	115
Cisco Certified Network Associate (CCNA) Level 1 Certificate.....	117
Networking - Cybersecurity Specialization Level 1 Certificate .....	118
Associate of Applied Science in Software Development* .....	120
CRIMINAL JUSTICE .....	122
Associate of Arts in Criminal Justice with Field of Study .....	122
Criminal Justice Core Level 1 Certificate .....	125
LAW ENFORCEMENT .....	126
Associate of Applied Science in Law Enforcement Technology.....	126
DRAFTING AND DESIGN TECHNOLOGY .....	130
Associate of Applied Science in Drafting and Design Technology .....	130
Level 1 Certificate in Drafting and Design Technology .....	132
DIESEL TECHNOLOGY.....	133
Associate of Applied Science in Diesel Technology .....	133
Level 1 Certificate in Diesel Technology – Basic .....	135
Level 1 Certificate in Diesel Technology .....	136
ELECTROMECHANICAL TECHNOLOGY .....	137
Associate in Applied Science in Electromechanical Technology -.....	137
Electrical Technician Specialty .....	137
Level 1 Certificate in Electromechanical Technology – Electrician Specialty .....	139
Level 1 Certificate in Electromechanical Technology Maintenance Technician Specialty .....	140
ELECTRONICS TECHNOLOGY.....	142
Associate of Applied Science in Electronics Technology.....	142
Level 1 Certificate in Electronics Technology – Electronics Assembler .....	143
Level 1 Certificate in Electronics Technology – Computer Maintenance .....	145
MACHINE TOOL TECHNOLOGY.....	146
Associate of Applied Science in Machine Tool Technology .....	146
Level 1 Certificate in Machine Tool Technology - .....	148
Computer Numerical Control Machine Operator .....	148

Level 1 Certificate in Machine Tool Technology – Machine Tool Operator .....	149
PARALEGAL (LEGAL ASSISTANT) .....	150
Associate of Applied Science in Paralegal (Legal Assistant).....	150
WELDING TECHNOLOGY.....	152
Associate of Applied Science in Welding Technology.....	152
Level 1 Certificate in Welding Technology – Basic.....	153
Level 1 Certificate in Welding Technology – Intermediate.....	154
Level 2 Certificate in Advanced Welding Technology.....	155
<b>STAND-ALONE CERTIFICATES.....</b>	<b>158</b>
AUTOMOTIVE TECHNOLOGY .....	158
Level 1 Certificate in Automotive Technology.....	159
Level 1 Certificate in HVAC and Refrigeration – Commercial.....	160
Level 1 Certificate in HVAC – Residential.....	161
OFFICE ADMINISTRATION .....	163
Level 1 Certificate in Office Administration.....	163
Level 1 Certificate in Office Administration – Computer User Support Specialist.....	164
REAL ESTATE .....	165
Level 1 Advanced Certificate in Real Estate.....	165
<b>SCHOOL OF HEALTH CAREERS.....</b>	<b>167</b>
DIAGNOSTIC MEDICAL SONOGRAPHY.....	168
Associate of Applied Science in Diagnostic Medical Sonography.....	168
EMERGENCY MEDICAL SERVICES PROGRAM .....	172
Associate of Applied Science in Emergency Medical Services.....	173
Emergency Medical Services Certificate – Basic Program .....	174
Paramedic Certificate.....	174
NURSING.....	176
Associate of Applied Science in Nursing .....	179
Associate of Applied Science in Nursing with MEEP option .....	181
VOCATIONAL NURSING .....	186
Level 2 Certificate in Vocational Nursing.....	187
PHARMACY TECHNOLOGY PROGRAM (PHRA) .....	189
Associate of Applied Science in Pharmacy Technology.....	191
Level 2 Certificate of Completion in Pharmacy Technology Program .....	193
RADIOLOGIC TECHNOLOGY .....	195
Associate of Applied Science in Radiologic Technology .....	197
RESPIRATORY CARE PROGRAM .....	199
Associate of Applied Science in Respiratory Care.....	201
SURGICAL TECHNOLOGY PROGRAM .....	203
<b>SCHOOL OF SCIENCE AND MATH .....</b>	<b>208</b>



ENGINEERING .....	209
Associate of Science in Engineering.....	209
HEALTH SCIENCE.....	211
Associate of Science in Health Science .....	211
MULTIDISCIPLINARY STUDIES.....	213
Associate of Science in Multidisciplinary Studies .....	213
<b>WORKFORCE OF CONTINUING EDUCATION.....</b>	<b>216</b>
<b>COURSE DESCRIPTIONS .....</b>	<b>218</b>
<b>COLLEGE PERSONNEL .....</b>	<b>295</b>
Executive Council.....	296
Academic Administrators .....	297
Non-Teaching Professional Staff .....	298
Instructors .....	298
School of Arts and Education.....	298
School of Business & Technology.....	301
School of Health Careers.....	302
School of Science & Mathematics.....	304
Workforce and Continuing Education.....	305

## LIST OF TABLES

Table A	Schedule of Refund of Tuition and Mandatory Fees for Flex Courses and Non-Semester Length Courses
Table B	Satisfactory Academic Progress (SAP) Minimum Grade Point Average per Credit Hours Attempted
Table C	Advanced Placement (AP) Test Subject, Minimum Score, AC Course Number, and Credit Hours
Table D	International Baccalaureate Program Equivalency Chart
Table E	CLEP Subject Exams and Minimum Scores with AC Courses and Credit Hours
Table F	Grades Available for Assignment by Instructors
Table G	Minimum Acceptable Grade Point Average per Credit Hours Attempted
Table H	Course Requirements for Core Curriculum

## **ABOUT ANGELINA COLLEGE**

Angelina College is a public county junior college located in Lufkin, Texas. The College derives its legal status from the Constitution of the State of Texas and the Texas Education Code.

### **College History**

The voters of Angelina County established the Angelina County Junior College District by an election held on September 24, 1966. The Education Committee of the Angelina County Chamber of Commerce promulgated and sponsored the organization of the College District. Construction of the original seven-building campus started in November of 1967. Angelina College opened its doors to students in the fall of 1968.

At the regular meeting on December 12, 1966, the Board of Trustees elected Dr. Jack W. Hudgins, Dean of Grayson County College, as the first President of Angelina College. Upon the retirement of Dr. Hudgins in January 1991, the Board elected Dr. Larry Phillips as the second President of Angelina College. Upon the retirement of Dr. Phillips in June 2015, the Board elected Dr. Michael J. Simon as the third President of Angelina College.

### **Taxing District and Service Area**

The Angelina College taxing district comprises all of Angelina County, Texas. The Angelina College service area includes the territory within:

- Angelina, Houston, Nacogdoches, Polk, Sabine, San Augustine, Trinity, and Tyler counties;
- The Wells and Alto independent school districts (ISDs), located in Cherokee County;
- The Burkeville and Newton ISDs, located in Newton County;
- The Jasper ISD, located in Jasper County;
- The Shepard and Coldspring-Oakhurst consolidated ISDs, located in San Jacinto County;
- The part of the Brookland ISD that is located in Jasper and Newton Counties;
- The part of the Colmesneil ISD that is located in Jasper County; and
- The part of the Trinity ISD that is located in Walker County.

### **Board of Trustees**

The citizens of Angelina County elect the Angelina College Board of Trustees to govern and lead the College. All authority not vested by state law in the Texas Higher Education Coordinating Board or other entity is reserved and retained locally by the College, the Board of Trustees, or both as provided in applicable laws. The Board of Trustees conducts regular meetings on campus that are open to the public.

#### **Members of the Angelina College Board of Trustees**

Dr. Robert Lindsey (2020) - President  
Mr. Curt Fenley (2020) – Vice President  
Mr. Malcolm Deason (2020) - Secretary  
Mr. Gilbert “Joey” Garza (2022)  
Ms. Hilary Haglund-Walker (2018)  
Ms. Lynne Haney (2019)  
Dr. Sidney Roberts (2017)

For more information, please visit <https://www.angelina.edu/about/board-and-administration/>

### **Institutional Accreditation**

Angelina College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees. Angelina College also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Angelina College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website ([www.sacscoc.org](http://www.sacscoc.org)).

### **Program Accreditation**

The following academic programs maintain program-level accreditation by complying with the standards established by the noted entities.

- Surgical Technology, Diagnostic Medical Sonography, and Emergency Medical Services: Commission on Accreditation of Allied Health Education Programs (CAAHEP)
- Pharmacy Technology: American Society of Health-System Pharmacists and the Accreditation Council for Pharmacy Education (ASHP/ACPE)
- Respiratory Care: Commission on Accreditation for Respiratory Care (COARC)
- Radiologic Technology: Joint Review Committee on Education in Radiologic Technology (JRCERT)

### **Program Approval**

The following entities approve various Angelina College credit and non-credit programs.

- Texas Higher Education Coordinating Board (approves all credit and non-credit courses and programs offered by Angelina College)
- American Society of Phlebotomy Technicians (Phlebotomy)
- Texas Board of Nursing (Nursing degrees and certificates)
- Texas Commission on Fire Protection (Fire Academy)
- Texas Commission on Law Enforcement (Law Enforcement Academy)
- Texas Department of Health and Human Services (Medication Aide)
- Texas Department of Aging and Disability Services (Nurse Aide)
- Texas Workforce Commission (approves eligibility of credit and non-credit courses for state funding because they prepare students for high-demand occupations)

## Mission Statement

The mission of Angelina College is to provide quality educational opportunities and services to aid students and the community in reaching their full potential.

## Vision Statement

The vision of Angelina College is to be the first choice in value and quality education, leading to diverse career pathways throughout its service area.

## Core Values

**Integrity** – We value academic honesty and ethical behavior. The College demonstrates integrity by defending academic freedom, fostering civic responsibility, exhibiting academic honesty and ethical behavior, and celebrating the courage to act.

**Diversity** – We value diverse perspectives, cultures, and experiences. Diversity enriches the learning and working environment and enables people with different perspectives, cultures, and experiences to thrive on campus and to prepare for success in a pluralistic society.

**Learning** – We value learning as the core of our mission. Learning through the unfettered search for knowledge and its free exposition and through experiences promoting the acquisition of relevant skills and abilities is at the core of every College endeavor.

**Excellence** – We value the ongoing pursuit of excellence. The College achieves excellence through teamwork, continuous improvement of every facet of the institution, sustainable practices, sound financial planning, prudent use of resources, and ongoing development of personnel.

**Engagement** – We value service to our communities. Engagement through partnerships, active citizenship, and community service supports and strengthens the service area's social, cultural, and economic environment.

## Strategic Goals

The [Angelina College 2021-26 Strategic Plan](#) was adopted by the Board of Trustees and can be viewed online.

## ACADEMIC CALENDAR 2024-25

The College offers eight and sixteen-week courses during the fall and spring semesters, as well as two mini-mesters (December and May) and summer courses. The academic calendar is available on [the College's website](#).

### Flex Courses

The College typically schedules courses to begin and end each semester on the dates identified in the academic calendar. In response to academic program design, general student interest, or both, the College may schedule some courses and programs to start or end on dates other than the typical dates noted on the calendar. The College calls compressed courses (i.e., late start or early end) and courses that extend over two semesters (typically Summer I and Summer II semesters) *flex courses*. The starting dates, ending dates, and refund periods will vary for flex courses. Students enrolled in one or more flex courses should consult the refund schedule in the academic calendar.

### Drops and Withdrawals from Courses

For selected programs and courses that are flex entry (other than semester length), starting/ending dates and refund periods will vary. Drops/withdrawals may affect Financial Aid eligibility. Students enrolled in one or more of these courses should consult the refund schedule and contact the [Financial Aid office](#) if they have questions.

## 2024-2025 Calendar\*

### FALL 2024

Fall 2024 16-week Term		
April	1	Registration opens
August	12	Regular business hours resume; Faculty reports
	14	Registration closes; Payment deadline
	15-16	Late registration; Payment due on the same day of registration
	16	Last day to receive a 100% refund
	19	FIRST CLASS DAY
	30	Last day to submit financial aid forms for Fall 2024
September	<b>2</b>	<b>Holiday: Labor Day, Campus Closed</b>
	4	Official census day
	9	Last day to receive a 70% refund
	16	Last day to receive a 25% refund
October	11	Midterm
November	1	Last day to apply for Fall 2024 graduation
	4	Last day to withdraw with a "W"
	8	Spring 2025 financial aid forms due
	<b>25-29</b>	<b>Holiday: Thanksgiving, Campus Closed</b>
December	2	Classes resume
	6-12	FINAL EXAMS
	13	Final grades due to the Registrar by 10:00 a.m.
	<b>13</b>	<b>Holiday: Christmas Break - Offices close (3:00 p.m.), Campus Closed</b>

Fall 2024 First 8-week Term		
April	1	Registration opens
August	14	Registration closes; Payment deadline
	15-16	Late registration; Payment due same day of registration
	16	Last day to receive a 100% refund
	19	FIRST CLASS DAY
	26	Official census day
	28	Last day to receive a 70% refund
	30	Last day to receive a 25% refund
September	<b>2</b>	<b>Holiday: Labor Day, Campus Closed</b>
	13	Midterm
	23	Last day to withdraw with a "W"
October	10	FINAL EXAMS
	11	Final grades due to Registrar by 12:00 p.m. (noon)

Fall 2024 Second 8-week Term		
April	1	Registration opens
October	11	Registration closes; Payment deadline
	14-15	Late registration; Payment due same day of registration
	15	Last day to receive a 100% refund
	16	FIRST CLASS DAY
	23	Official census day
	25	Last day to receive a 70% refund
	29	Last day to receive a 25% refund
November	8	Midterm
	22	Last day to withdraw with a "W"
	<b>25-29</b>	<b>Holiday: Thanksgiving, Campus Closed</b>
December	2	Classes resume
	12	FINAL EXAMS
	13	Final grades due to Registrar by 10:00 a.m.
	<b>13</b>	<b>Holiday: Christmas Break – Offices close (3:00 p.m.), Campus Closed</b>



December-Mester 2024		
April	1	Registration opens
December	11	Registration closes; Payment deadline
	13	<b>Holiday: Winter Break - Offices close (3:00 p.m.), Campus Closed</b> Last day to receive a 100% refund
	16	FIRST CLASS DAY
	17	Three-hour course, Official census day
	18	Four-hour course, Official census day
	18	Last day to receive a 70% refund for three-hour courses
	19	Last day to receive a 70% refund for 4-hour courses Last day to receive a 25% refund for 3-hour courses
	20	Last day to receive a 25% refund for 4-hour courses
January	2	Last day to withdraw with a "W"
	3	FINAL EXAMS: 3-hour courses
	10	FINAL EXAMS: 4-hour courses
	13	Final grades due to Registrar by 10:00 a.m.

## SPRING 2025

Spring 2025 16-week Term		
October	21	Registration opens
January	6	Administrative Offices and Library open Faculty report
	8	Registration closes; Payment deadline
	10	Last day to receive a 100% refund
	13	FIRST CLASS DAY
	20	<b>Holiday: Martin L. King, Jr., Campus Closed</b>
	29	Official census day
February	3	Last day to submit financial aid forms for Spring 2025 Last day to receive a 70% refund
	10	Last day to receive a 25% refund
March	1	Fall 2025 scholarship applications due (for high school seniors)
	7	Midterm
	10-14	<b>Holiday: Spring Break, Campus Closed</b>
	15	Last day to apply for spring 2025 graduation or to apply for summer early approval (to have name printed in the commencement program)
	17	Classes resume
	31	Last day to withdraw with a "W"

May	1	Summer 2025 financial aid forms due
	2-8	Final exams
	9	Final grades due to Registrar by 10:00 a.m. Commencement
	12	Summer business hours begin

Spring 2025 First 8-week Term		
October	21	Registration opens
January	6	Administrative Offices and Library open
	8	Registration closes; Payment deadline
	9-10	Late registration; Payment due same day as registration
	10	Last day to receive a 100% refund
	13	FIRST CLASS DAY
	20	<b>Holiday: Martin L. King, Jr., Campus Closed</b>
	21	Official census day
	23	Last day to receive a 70% refund
February	27	Last day to receive a 25% refund
	7	Midterm
	17	Last day to withdraw with a "W"
March	6	FINAL EXAMS
	7	Final grades due to Registrar by 12:00 p.m. (noon)
	10-14	<b>Holiday: Spring Break, Campus Closed</b>

Spring 2025 Second 8-week Term		
October	21	Registration opens
March	6	Registration closes; Payment deadline
	7	Last day to receive a 100% refund
	17	FIRST CLASS DAY
	24	Official census day
	26	Last day to receive a 70% refund
	28	Last day to receive a 25% refund
April	11	Midterm
	21	Last day to withdraw with a "W"
May	8	FINAL EXAMS
	9	Final grades due to Registrar by 10:00 a.m. Commencement Services

	12	Summer business hours begin
--	----	-----------------------------

May Mester 2025		
October	21	Registration opens
May	7	Registration closes; Payment deadline
	9	Last day to receive a 100% refund
	12	FIRST CLASS DAY
	13	Official census day
	14	Last day to receive a 70% refund
	15	Last day to receive a 25% refund
	22	Last day to withdraw with a "W"
	26	<b>Holiday: Memorial Day, Campus Closed</b>
	29	FINAL EXAMS
	30	Final grades due to Registrar by 10:00 a.m.

## SUMMER 2025

Summer 2025		
October	21	Registration opens
May	28	Registration closes; Payment deadline: 10-week and first 5-week term
June	29	Last day to receive a 100% refund: 10-week and first 5-week term
	2	FIRST CLASS DAY: 10-week and first 5-week terms
	5	Official census day: First 5-week term
	9	Last day to receive a 70% refund: First 5-week term
	10	Last day to receive a 25% refund: First 5-week term
	12	Last day to receive a 70% refund: 10-week term
	15	Scholarship forms due for Fall 2025 (All students)
	17	Official census day: 10-week term Last day to receive a 25% refund: 10-week term
	19	<b>Holiday: Juneteenth, Campus Closed</b>
	23	Last day to withdraw with a "W": First 5-week term
July	1	Last day to apply for summer 2025 graduation
	3	Final exams: First 5-week term Registration closes; Payment deadline: Second 5-week term
	4	<b>Holiday: Independence Day, Campus Closed</b>
	7	Final grades due to the Registrar by noon: First 5-week term Last day to receive a 100% refund: Second 5-week term
	8	FIRST CLASS DAY: Second 5-week term
	14	Official census day: Second 5-week term
	15	Last day to receive a 70% refund: Second 5-week term

	16	Last day to withdraw with a "W": 10-week term Last day to receive a 25% refund: Second 5-week term
	28	Last day to withdraw with a "W": Second five-week term
August	6	Final exams: Second 5-week term
	7	Final grades due to Registrar by 10:00 a.m.: 10-week and second 5-week terms
	11	Regular business hours resume

\*For selected programs and courses that are flex entry (other than semester length), starting/ending dates and refund periods will vary. Drops/withdrawals may affect Financial Aid eligibility. Students enrolled in one or more of these courses should consult the refund schedule and contact the Financial Aid office if they are recipients of financial assistance.

^Dates are subject to change. [See the online schedule](#) for the most up-to-date information.

#Summer business hours: Monday – Thursday from 8:00 – 5:00 (with a 30-minute lunch)

## ADMISSIONS METHODS AND DOCUMENTATION

Angelina College enrolls students without regard to sex, gender, race, color, religion, national origin, disability, age, or any other basis prohibited by law. The College reserves the right to verify the residency status of a prospective student. Admission to the College does not imply admission to all academic programs. In order to enroll in selective academic programs with additional admission requirements, a student must meet the College's admissions criteria in this section, as well as the specific admission requirements for the selective academic program.

### Contact Information for Admissions

Angelina College Office of Admissions  
P.O. Box 1768  
Lufkin, TX 75902-1768

Telephone: (936) 633-5210  
Internet: [www.angelina.edu](http://www.angelina.edu)  
Email: [admissions@angelina.edu](mailto:admissions@angelina.edu)

### Methods of Admission

All methods of admission listed below require: (a) completion of an application for admission, (b) assessment of academic preparation for college-level work or approved exception to assessment (see Texas Success Initiative section of this catalog for exemptions), and (c) official transcripts.

1. **High School/Home School Graduate Admission:** A graduate of a public high school or an accredited private high school or home school who is pursuing an associate degree or college transfer courses is eligible for enrollment after submitting an official high school diploma.
2. **High School Equivalency Diploma:** Individuals who earn a General Education Diploma (GED) or other high school equivalency diploma and file their documentation in the Office of Admissions are eligible for enrollment.
3. **Concurrent Admission and Dual Credit Courses:** *Concurrent admission* occurs when a student enrolls in a college course while in high school. Dual credit courses are a form of concurrent admission wherein students receive college credit, as well as high school credit if they successfully complete an approved college course.

The College may permit students who have enrolled in the ninth grade to enroll concurrently at Angelina College if all the following criteria are met:

- Recommendation of the high school principal, counselor, or school district superintendent;
- Permission of the parent or legal guardian; and
- Other criteria required by college policy and state law, including adequate entrance exam scores (see Texas Success Initiative section of this Catalog).

The Texas Higher Education Coordinating Board permits dual credit enrollment in core curriculum, career and technical education, and foreign language courses (per section 4.85 of the Texas Administrative Code). Dual credit students are not eligible to enroll in developmental education or physical education courses.

Students interested in earning dual credit or who have questions about admission criteria should contact the Director of Dual Credit Enrollment.

4. **Individual Approval:** A student who is not a graduate of a state-accredited high school at the time of application to AC but who is 18 years of age or older may be admitted conditionally. The student must submit to the Office of Admissions a General Education Diploma (GED), other high school equivalency diploma, or high school transcript certifying graduation by the end of the first semester of enrollment.
5. **College Transfer:** College transfer students seeking enrollment to earn a degree or certificate must present an official transcript from each college attended prior to their enrollment at Angelina College. Students on academic suspension from other colleges are not eligible for enrollment until the suspension period has elapsed. However, provisional enrollment may be established; contact the Office of Admissions for additional information.
6. **Transient Admission:** Students who are enrolled at another college or university and seeking to take a class at AC are classified as transient students. Students admitted under this option are considered non-degree seeking and are not eligible for financial aid. The following admission requirements must be met prior to registration: a transient admission application must be submitted and processed, an official college transcript(s) must be submitted showing TSI status and pre-requisite(s), and proof of bacterial meningitis vaccination for students under the age of 22.
7. **Non-Degree Seeking Student Enrollment:** A student who is 55 years of age or older and not seeking a degree or certificate may enroll periodically. All students must follow regular enrollment procedures but will be exempt from assessment testing. Senior citizens (persons 65 years of age or older) may audit or enroll in up to six credit hours in any course(s) offered by Angelina College without the payment of tuition if space is available (see: "Senior Citizens" in the Tuition and Fees - Limitations section of this catalog).
8. **Re-Admission:** If a student has attended another college since Angelina College last enrolled them, an official transcript from that institution will be required. The College will not allow a readmitting student to enroll if the admissions file was incomplete during the previous enrollment.

### **Conditional Admission:**

Each student applying for admission must meet the requirements described in the selected method of admission. The College may admit and allow a student to register for classes conditionally if they do not provide the required official transcripts with the understanding that the student must file the required transcripts with the [Office of Admissions](#) by the end of the semester. Failure to provide the required official transcripts by the date given will result in the student being blocked from future enrollment and not being eligible to receive transcripts. The College will not permit a conditional admission student to reenroll until all admissions requirements have been met.

### **Admission Authority and Readmission Appeals**

The Senior Director of Financial Aid and Admissions is charged with the primary responsibility of making admissions decisions. However, in unusual cases, wherein it is believed sufficient grounds exist for appeal, a student denied admission for academic reasons may appeal the decision of the Senior Director of Financial Aid and Admissions.

Angelina College students on academic suspension must normally serve out the suspension period prescribed according to the college academic policies (generally one fall or spring semester). However, in unusual cases, wherein it is believed sufficient grounds exist for an appeal, an Angelina College student may appeal to the college admissions committee by submitting an appeal in writing to the [Office of the Registrar](#). A student may appeal an academic suspension only once during their college career. The committee's decision will be final. See regulations under the section entitled "Academic Requirements" later in this catalog. The College will notify students on academic suspension of the date of the appeals meeting in correspondence sent to the student's college email address. Contact the Office of the Registrar for additional information.

### **Required Admission Documents**

The following admission documents must be on file in the [Office of Admissions](#) before the initial registration:

The following admission documents must be on file in the [Office of Admissions](#) before the initial registration:

1. A new student application for admission submitted online through [www.angelina.edu/admissions](http://www.angelina.edu/admissions) or [www.applytexas.org](http://www.applytexas.org).
2. For concurrent admission, recommendation from the high school counselor or principal and parental or guardian permission;
3. Official high school transcript (for high school/home school graduate admission);
4. Official GED or other high school equivalency test scores (for individual approval admission);
5. Official college transcript(s) (for degree-seeking, college transfer, transient student admission);
6. An official copy of the student's placement test scores, where applicable. (see Texas Success Initiative section in this catalog); and
7. Proof or waiver of bacterial meningitis vaccine for students under the age of 22 must be on file in the Office of Admissions ten (10) days prior to the first day of class. (see: [Requirement for Bacterial Meningitis Vaccination before Enrollment section of this](#)



- [catalog](#)). Health Careers students have special immunization requirements and should speak with the program coordinator/director about these requirements.
8. Texas law requires students to complete an assessment in reading, writing, and mathematics before enrolling in college. The Texas Success Initiative (TSI) mandates that any new undergraduate student entering a public institution must be assessed for readiness to enroll in college coursework. Students who fall below the minimum placement scores in reading, writing, and/or mathematics will be placed in developmental education courses for each subject area in which college readiness is not demonstrated. If you have taken placement testing (TSI, Accuplacer, TAKS, STARR, ACT, SAT, etc.) or have taken college coursework before, please contact the Testing Center before scheduling or paying for the TSI to verify if testing is required.
  9. New Student Orientation

Applicants are encouraged to submit results of standardized tests (ACT, SAT, TSI, etc.) to the Office of Admissions for use in counseling, academic advisement, and scholarship consideration.

### **Requirement for Bacterial Meningitis Vaccination Before Enrollment**

Texas Education Code section 51.9192 states that all students attending an institution of higher education are required to provide proof of current bacterial meningitis vaccination. Effective January 1, 2014, all entering students are required to show evidence of an initial bacterial meningitis vaccine or a booster dose during the five-year period preceding, and at least 10 days before, the first day of the first semester in which the student initially enrolls at a Texas higher education institution. An entering student includes a first-time student of a Texas public institution of higher education or private or independent institution and includes a transfer student or a student who previously attended an institution of higher education before January 1, 2014, and who is enrolling in the same or another institution of higher education following a break in enrollment of at least one fall or spring semester.

For more information and a list of exceptions, please visit the [THECB Bacterial Meningitis page](#) and [Texas Administrative Code Rule §21.614](#)

### **Student Address.**

The College requires students who change addresses after registration to notify the [Office of Admissions](#) in writing immediately. See the [Office of Admissions](#) in the Student Center or call (936) 633-5210.

### **AC Student Email and Official Communication**

Angelina College students are assigned an email address after completing the admissions application. AC will use this email address to send all official college correspondence. All notifications made through delivery to a student's assigned college email address are considered delivered. For information regarding student email username and password, see <http://www.angelina.edu/it-helpdesk/> or contact the [IT Help Desk](#) on the first floor of the Administration Building by phone at 936-633-5208.

## STUDENT CLASSIFICATION, TUITION, AND FEES

### Student Classifications

For tuition purposes, The College will classify students enrolled in Angelina College as follows:

- **In-District:** Students who are legal residents of Angelina County. *Legal residents* include all students who, at the census date of a semester, have established a bona fide residence in Angelina County (see also: “Waiver of out-of-district tuition fees for individuals owning property subject to Ad Valorem taxation” in this catalog).
- **Out-of-District:** Students who are legal residents of Texas counties other than Angelina County.
- **Out-of-State:** Students who are not legal residents of Texas, according to the [Texas Education Code § 54.052](#), are defined as

Students who are less than 18 years of age, living away from their family, and whose family has not resided in Texas for the 12 months immediately preceding the date of registration or students of 18 years of age or over who reside out of state or who have not been legal residents of the state 12 months immediately preceding the date of registration.

Students may obtain other residency requirements and information in the [Office of Admissions](#).

### Tuition and Fees

The College’s tuition and fee rate schedule can be found at <https://www.angelina.edu/tuition-fees/>. The College may revise the 2025 Spring or Summer schedules, pending state funding. Tuition and fees for auditing courses are the same as for regular enrollment in the courses. Students must complete enrollment in audited courses during the regular registration periods.

#### Payment of Tuition and Fees

Angelina College requires students to pay all tuition and fees at the time of registration. Students are not entitled to enter classes or laboratories until they pay assessed fees and make appropriate deposits. Failure to pay the amount owed in the allotted time can result in any or all of the following sanctions: (a) drop or withdrawal from classes, (b) withholding of future registration privileges, (c) withholding of transcripts, and (d) withholding award of a degree.

#### Mandatory and Required Incidental Fees

Mandatory fees are required for attending Angelina College and/or for enrollment in specific courses or laboratories. The College assesses required incidental fees to a student for specific services they may need from the College. Mandatory and Required Incidental Fees can be found at <https://www.angelina.edu/tuition-fees/>.

#### Tuition Installment Plan

During the fall and spring semesters, students may elect to pay tuition and fees in installments. Installment plans can be set up in the student portal by following [these directions](#). The College will prohibit students who fail to make full payment, according to the schedule indicated in the tuition installment

plan, from registering for classes in subsequent semesters unless arrangements have been made with the Business Office.

### Tuition and Fees – Limitations

The Texas Education Code authorizes the following limitations to tuition and fees. Students are advised to refer to the referenced Texas Education Code for eligibility requirements. The [Office of Financial Aid](#) will provide a list of required documentation for each exemption or waiver. All students receiving a waiver or exemption must make satisfactory academic progress as defined by [Angelina College’s Satisfactory Academic Progress Policy](#).

1. Waiver of out-of-district tuition fees for individuals owning property subject to Ad Valorem taxation ([Tex. Ed. Code § 130.0032](#))

The governing board of a public junior college district may allow a person who resides outside the district and who owns property subject to ad valorem taxation by the district, or a dependent of the person, to pay tuition at the rate applicable to a student who resides in the district.

2. Concurrent enrollment in more than one institution of higher education ([Tex. Ed. Code § 54.011](#))  
A copy of the student’s paid receipt from the first institution must be presented during registration at Angelina College.

3. The Texas Hazlewood Act ([Tex. Ed. Code § 54.2031 \(a\) & \(b\)](#))

Certain veterans who have served a minimum of 180 days on active military duty and who have received an honorable discharge, who were residents of Texas at the time of entry into the service, who have resided in Texas for at least the twelve months before the date of registration, and whose entitlement to educational benefits under federal legislation (financial aid) has been exhausted are eligible for exemption from the payment of tuition and fees at public schools.

To obtain this exemption, the veteran or their dependent should furnish the following documents to the VA Certifying Official in the [Student Financial Aid Office](#):

- a. A certified copy of discharge papers,
- b. A letter from the Veterans Administration or other proof that the veteran’s benefits have been exhausted, and
- c. Verification that federal financial aid is not available.

Dependents should furnish official documentation from the military indicating eligibility.

4. Children of Certain Disabled Public Employees ([Tex. Ed. Code § 54.351](#))

Children of certain firefighters, peace officers, employees of the Texas Department of Corrections, game wardens, and others who have suffered an injury resulting in disability sustained in the line of duty are exempt from payment of all dues, fees, and charges.

5. Surviving Spouse and Dependent Children of Certain Deceased Public Servants ([Tex. Govt. Code § 54.354](#))

A surviving spouse or dependent of certain firefighters, peace officers, and employees of the Texas Department of Corrections, game wardens, and others is eligible to receive education

benefits under this section if the person is a surviving spouse; or a surviving minor child as defined by [Section 615](#). An eligible person who enrolls as a full-time student at an institution of higher education is exempt from tuition and fees until the student receives a bachelor's degree or 200 hours of coursework, whichever comes first. The institution of higher education shall also provide textbooks to the student.

- 6. Deaf and Blind Students ([Tex. Ed. Code § 54.364](#))**  
Certain deaf and blind persons may be eligible for exemption of tuition, lab fees, activity fees, and building use fees. Such persons are not exempt from charges for lodging, board, books, or supplies, which other students normally pay.
- 7. Honor Graduate ([Tex. Ed. Code § 54.301](#))**  
The highest-ranking graduate of each accredited Texas high school is eligible for a scholarship that provides full exemption from tuition for both semesters of the first regular session immediately following their graduation. When, in the opinion of the institution's president, the circumstances of the individual case (usually military service) merit such action, this exemption may be granted for any of the first four regular sessions following that individual's graduation from high school. Students can apply for an exemption in the [Office of Student Financial Aid](#).
- 8. Children of Prisoners of War or Persons Missing in Action ([Tex. Ed. Code § 54.343](#))**  
Dependent children of any person who is a domiciliary of Texas on active duty as a member of the armed forces of the United States and who at the time of registration is classified by the Department of Defense as a prisoner of war or as missing in action, are eligible for exemption of tuition and fees. Before registering, students should complete an application for this exemption in the [Office of Student Financial Aid](#).
- 9. Senior Citizens ([Tex. Ed. Code § 54.365](#))**  
The governing board of a state-supported institution of higher education may allow senior citizens (persons 65 years of age or older) to audit or enroll in up to six credit hours in any course(s) offered by the institution without the payment of tuition if space is available.
- 10. Adopted Students formerly in Residential Care ([Tex. Ed. Code § 54.367](#))**  
Students who were in foster care but were adopted and were the subject of an adoption assistance agreement are exempt from the payment of tuition and fees.
- 11. Students Under Conservatorship of Department of Family and Protective Services ([Tex. Ed. Code § 54.366](#))**  
Current and former students are exempt from the payment of tuition and fees authorized in this chapter, including tuition and fees charged by an institution of higher education for a dual credit course or other course for which a high school student may earn joint high school and college credit.
- 12. Transfers for Economic Development ([Tex. Ed. Code § 54.222](#))**  
An individual eligible to establish a domicile in Texas who has come from outside Texas and registered in an educational institution before having resided in Texas for a twelve-month period immediately preceding the date of registration and his dependents, is entitled to pay the tuition

fee and other fees required of Texas residents.

**13. Nonresident Military Personnel in Texas ([Tex. Ed. Code § 54.241](#))**

Nonresident military personnel stationed in Texas, their spouses, and their children are eligible to pay resident tuition rates. Applicants must provide documentation from the military branch of service verifying assignment in Texas.

**14. Texas National Guard Tuition Assistance Program ([Tex. Govt. Code § 54.241](#))**

Eligible individuals in the Texas Army or Air National Guard and Texas State Guard may qualify to be exempt from payment of tuition. To apply, students should contact the unit commander of their National Guard, Air Guard, or State Guard unit or the Education Officer, State Adjutant General's Office, P.O. Box 5218/AGTX-PAE, Austin, TX, 78763-5218 or at 512-782-5515 or send an email to [education.office@tx.ngb.army.mil](mailto:education.office@tx.ngb.army.mil).

**15. Exemption of eligible preceptors and eligible students from payment of up to \$500 of tuition per semester ([Tex. Ed. Code § 54.356](#))**

To receive an exemption under this program, a preceptor must be a resident of Texas, be a registered nurse, and be serving under a written preceptor agreement with an undergraduate professional nursing program as a clinical preceptor for students enrolled in the program for the semester or other academic term for which the exemption is sought. A student who is a resident of Texas may receive the exemption as the child of a person meeting all criteria listed. An application is required. See Health Careers Associate Dean of Instruction. This exemption is adjusted based on other scholarships/grants received.

**16. Exemption of children of professional nursing program faculty and staff from payment of tuition per semester ([Tex. Ed. Code § 54.355](#))**

To receive an exemption under this program, a student must be a resident of Texas, not have been granted a baccalaureate degree, be enrolled at Angelina College, and be a child of an individual employed full time by Angelina College's nursing department as faculty, administrator, or teaching assistant. The exemption is to be prorated for children of employees meeting the above criteria but employed less than full-time. An application is required. See Health Careers Associate Dean of Instruction. This exemption is adjusted based on other scholarships/grants received.

**17. Students Receiving Competitive Scholarships ([Tex. Ed. Code § 54.213](#))**

Nonresident or international students receiving competitive academic or non-academic scholarships of \$1,000 or more may be eligible to pay resident tuition rates. To be eligible, the student must have competed with other students, including Texas residents, and a school-recognized scholarship committee must have administered the scholarship. Eligibility will be revoked in any semester during which the student fails to receive the scholarship.

**18. Peace Officers Enrolled in Law Enforcement or Criminal Justice Courses ([Tex. Ed. Code § 54.3531](#))**

To encourage persons employed as peace officers to take college courses designed to help them in their work, Angelina College will exempt the student from tuition and fees for certain courses in Peace Officer Programs.

**19. Firefighters Taking Fire Science Courses ([Tex. Ed. Code § 54.353](#))**

To encourage persons employed as firefighters or active members of volunteer fire departments to take college courses designed to help them in their work, Angelina College will exempt the student from tuition and lab fees for certain courses offered as part of a fire science curriculum.

#### **20. Surgical Technology Preceptor Tuition Waiver**

The Surgical Technology Program proposes to provide an incentive for Surgical Technology Certificate of Completion graduates to earn their Associate of Applied Science Degree in Surgical Technology by offering a tuition waiver. An estimated twenty certificate graduates could qualify for this tuition waiver. The total for all waivers will not exceed \$35,000. This tuition waiver will be available for the next five academic years.

The criteria to receive this waiver are as follows:

1. Angelina College Surgical Technology Certificate of Completion graduate
2. Current CST credential
3. Current student preceptor

## **FINANCIAL RESPONSIBILITY AND REFUND REGULATIONS**

### **Returned Check Regulation**

The College accepts checks subject to collection through regular banking procedures. A returned check (regardless of reason), written by the student or on their behalf by a spouse, guardian, friend, parent, or sponsor, does not constitute an automatic withdrawal from college. The College will assess a charge of \$30 for any check returned by the bank. Upon notification from the bank of a returned check, the Business Office will notify instructors not to permit a student into class until the check and service charge are paid. The check must clear the Business Office within ten days of the date on which the Business Office sent notice. Failure to respond will result in the College submitting the check(s) to the County Attorney of Angelina County for prosecution and collection.

### **Refund Regulations**

Students who drop courses, who officially withdraw from Angelina College, or who are officially dismissed, and who are enrolled in flex courses or non-semester length courses with a census date other than the twelfth-class day (e.g., fourth class day for the six-week summer semesters) shall receive refunds of tuition and mandatory fees over the minimum tuition as follows:

Prior to the first-class day: 100%

After classes begin: See [Table A](#)

Students planning to drop a course or withdraw from the College should visit the [Office of Financial Aid](#) to determine how dropping or withdrawing from the course will affect their financial aid.

- For all classes, regardless of length, the last day to receive a 100% refund is the day prior to the first class day.
- After the last day for a 25% refund, students will receive no refund for any dropped class.

## Definitions

- *Officially withdraw or drop* means that the student submits all required forms to the Office of Academic Success to withdraw from or drop a course.
- *Class Days* refers to the number of calendar days the institution normally meets for classes, not the days a particular class meets. The college calendar lists important class dates.

---

**Table A**  
**Schedule of Refund of Tuition and Mandatory Fees for Flex Courses and Non-Semester Length Courses**

---

Length of Class Term in Weeks	Last Day for 70% Refund	Last day for 25% Refund
2 or less	2	N/A
3	3	4
4	4	5
5	5	6
6	5	7
7	7	9
8	8	10
9	9	11
10	9	12
11	10	14
12	12	15
13	13	16
14	13	17
15	14	19
16 or Longer	15	20

---

## Additional Regulations

1. [Tuition and fees as published online](#) are subject to change, if necessary, to comply with state law and College regulations. The AC Board of Trustees must approve any variations from catalog regulations governing charges or refunds.
2. The College will consider all college claims for loss or damage of college property, loans, returned checks, and other such charges before the College processes and mails refunds.
3. Incidental fees and the student usage fee are not refundable.
4. The College will refund tuition and mandatory fees to the student, the student's estate in the event of substantiated death of the student, or to the sponsor, donor, grantor, or other sources from which the College received payment. When the College applies Federal Financial Aid, including Federal Pell Grant and another source(s) of payment to a student's account, refunds will be applied to Federal Financial Aid sources initially in the following sequence:
  - a. Federal PELL Grant Program
  - b. FSEOG Program
  - c. Other Title IV Programs

5. Classes that the College cancels at the convenience of the College due to low enrollment, shortage of space, unavailability of an instructor, or similar reasons will entitle the student to a full refund of tuition and fees.
6. If a student withdraws from the College because the student is called to active military service, the College, at the student's option, shall:
  - a. Refund the tuition and fees paid by the student for the semester in which the student withdraws;
  - b. Grant a student, eligible under the College's guidelines, an incomplete grade in all courses by designating "withdrawn-military" on the student's transcript; or
  - c. As determined by the instructor, assign an appropriate grade or credit to a student who has satisfactorily completed a substantial amount of coursework and has demonstrated sufficient mastery of the course material.
7. Students who add hours within the permissible period will have tuition and fees increased as necessary to meet provisions of state law and college policy.
8. Students may obtain information regarding refunds for noncredit courses from the Workforce & Continuing Education Division.
9. The College makes refunds by direct deposit only. The College will process refunds thirty days after the last day of schedule changes resulting from, but not limited to, withdrawal, dismissal, cancellation of classes, or dropped classes.
10. Students must request all refunds during the same semester the student made the original payment. The College will not refund less than \$2.00 unless requested by the student at the Business Office.

## **Financial Information for Student Housing and Dining Services**

Angelina College does not discriminate in student housing and dining services based on sex, gender, race, color, religion, national origin, disability, age, or any other basis prohibited by law. All rent and meal plan rates quoted online include applicable sales tax. The rates are subject to change based on economic conditions.

### **Student Housing**

Angelina College has 108 student spaces in the College residence hall. The College will reserve spaces in the residence hall on a "first come, first served" basis after the College assigns housing for institutional scholarship recipients and after returning resident students have exercised their option to renew a reservation for the semester or term. The College may also reserve blocks of rooms for students participating in special student programs. All student residents must sign a contract with Angelina College (a parent must sign for individuals under 18 years of age). This contract will ensure the resident student will comply with all college rules and regulations. The College will strictly enforce Residence Hall policies.

### **Residence Hall Space Reservation**

Students must apply for a space in the residence hall on the reservation form provided for this purpose. Students may obtain the reservation form from the College's website. Students must submit a \$100 deposit with their reservation form, which the College will retain as a property deposit. The College will use the deposit to protect against damage to the residence hall, including furniture and fixtures. If the College assigns space in the residence hall to a student and they do not move into the space or fail to cancel their reservation by the required date, the student will forfeit the \$100 deposit. The College will refund reservation deposits only upon written request from the student to the Business Office.



### **Residence Hall Check-In**

Once the College assigns a residence hall space to a student, the College will notify the student of the date the student may check into the hall. If a student does not check into the residence hall with the residence hall supervisor by the first class day of each semester, the College may cancel the student's reservation.

### **Rental Rate and Payment**

Please visit <https://www.angelina.edu/residence-life/> for rental rates for the 2024-25 academic year. Students must arrange to pay all rent before moving into the residence hall, including students receiving no financial aid or insufficient financial aid to cover rent, meal plans, and associated fees.

### **Dining Services**

Angelina College has a dining hall on the Student Center's first floor. The dining hall is open to all students, faculty, staff, and the public for a per-meal fee. The dining hall is open Monday through Friday for three meals and Saturday and Sunday for two meals. The College's meal plan provides 19 meals per week in the dining hall. The College requires students living in the residence hall to purchase a meal plan for each semester in which the student lives in the hall. Please visit <https://www.angelina.edu/residence-life/> for current meal plan rates. Unused meal plan meals expire at the end of each semester. The dining hall opens for meal plans on the first class day and closes on the last class day of each semester or term per the official College Calendar.

Students who do not have a meal plan may purchase individual meal tickets in the cafeteria. The student may carry individual meal tickets forward to future semesters. The College does not offer a meal plan during summer semesters.

### **Rent and Meal Plan Refunds**

The College will not refund rent and meal plan fees until the student submits a completed dorm checkout sheet to the Business Office.

#### **Rent Refunds**

Residence Hall students who officially withdraw from the College, whom the College dismisses at the convenience of the College on or after the first class day, or who the College expels from the residence hall for violation of policies will not receive a refund of rent. Students forced to withdraw from college due to illness or injury must substantiate the request with a physician's written and signed statement. The student will receive a refund of the unearned rent on a pro-rata basis. In the event of the substantiated death of a student, the College will refund the unearned rent and the reservation deposit to the student's estate. In the case of refunds due to students who receive grants, scholarships, or both, the College will issue refunds to the grant, scholarship, or both accounts.

#### **Meal Plan Refunds**

Students who officially withdraw from the College, whom the College dismisses at the convenience of the College, or whom the College expels from the residence hall will receive refunds of meal plans based on the unused portion calculated as a percentage of the semester remaining. The College will issue refunds resulting from the substantiated death of a student to the student's estate. In the case of refunds due to students who receive grants, scholarships, or both, the College will issue refunds to the grant, scholarship, or both accounts.

## **FINANCIAL AID PROCESSES AND REGULATIONS**

### **Office of Financial Aid**

Students may request all information about financial aid, including work-study, from the [Office of Financial Aid](#) in the Student Center Building. Students should contact the Office of Human Resources (2<sup>nd</sup> floor of the Student Center) for information about available work-study positions, employment applications, and job placement.

### **Free Application for Federal Student Aid (FAFSA)**

[www.studentaid.gov](http://www.studentaid.gov)

Angelina College recommends all students complete the Free Application for Federal Student Aid (FAFSA) for each year of enrollment. The FAFSA is available online at [www.studentaid.gov](http://www.studentaid.gov). Completing this application is necessary to qualify for federal financial aid, including the Pell Grant, Supplemental Education Opportunity Grants, and College Work-Study programs. Completing the FAFSA is also necessary to qualify a student for the Texas Public Education Grant and for the Texas Grant. Additionally, eligibility for several Angelina College scholarships depends upon federal financial aid eligibility.

Students may complete the *Angelina College General Scholarship Application* at <https://www.angelina.edu/scholarships.com>

### **Types of Student Financial Aid Available at AC**

- **Pell grants:** The Federal Pell Grant program is a federal aid program designed to provide financial assistance to those students who demonstrate financial need. Eligibility for this program is limited to students who have never received a bachelor's degree, are enrolled, and meet the need-based criteria established by the federal government. Applications for this program are available online at [www.studentaid.gov](http://www.studentaid.gov). The application is processed, the need is determined, and a Student Aid Report (SAR) is mailed directly to the student, with a copy sent to all schools listed by the student on the Free Application for Federal Student Aid (FAFSA). The College will review SAR information, request additional documentation as needed, and review the student's eligibility for aid to determine an actual award.
- **Other Grant Programs:** The Federal Supplemental Educational Opportunity Grant (FSEOG), Texas Public Education Grant (TPEG), Texas Grant, and Texas Educational Opportunity Grant (TEOG) are all needs-based programs. A student must file a FAFSA to be considered for these programs.
- **Federal Student Loans:** Angelina College does not participate in any student loan program.
- **Federal Work-Study:** Through cooperative funding between the Federal Government, the State of Texas, and Angelina College (AC), the College is able to employ students while they attend the college. AC offers part-time employment, not to exceed 19 hours per week, to students who show evidence of financial need. To qualify for work-study employment, students must be enrolled or accepted for enrollment in the following semester, have good academic standing, and show evidence of financial need. Students accepted for employment in this program may be assigned some activity under the College's jurisdiction or appropriate work with an approved nonprofit organization.
- **Scholarship/Tuition Waivers:** Angelina College offers a number of scholarships, some based on academic performance and others for specific criteria. Scholarships can be viewed on the

[Academic Works page for Angelina College](#). There are also a number of tuition waivers mandated by the Texas State Legislature. (See: "[Tuition and Fees - Limitations](#)" section of this catalog).

- **Financial Assistance for Veterans and Their Dependents**

Angelina College is committed to assisting veterans in making the transition to college life and to helping veterans secure the federal Veterans Affairs (VA) and state education benefits available to help them pay for college coursework for themselves and their eligible dependents. The Coordinator of Veteran Services is located in the Student Center.

### Financial Aid Deadlines

For students to have their financial aid funds available for use at registration, all financial aid papers must be complete and in the Office of Financial Aid before the following dates each semester:

Summer Semester

May 1

Fall Semester

July 19

Spring Semester

November 15

Students who do not have their financial aid papers complete and in the Office of Financial Aid at the deadlines indicated will have to seek alternative ways to pay for their tuition, fees, books, et cetera. These students will receive their financial aid monies at the date of the usual second disbursement if their financial aid papers are complete and in the Office of Financial Aid at that time. The deadline for submission of all documents required for financial aid awarding each semester is the [College's published census date for that term](#).

### Satisfactory Academic Progress Policy

Federal and state laws require that students make [satisfactory academic progress \(SAP\)](#) in their course of study to receive federal financial assistance. These standards apply to all attendance periods, even periods when a student did not receive financial aid. The Angelina College Office of Financial Aid will assess satisfactory academic progress at the end of each enrollment period (Fall Semester, Spring Semester, and Summer Semester).

#### Maximum Time Frame

The College will expect a student receiving financial aid to complete their educational course of study within a reasonable period. The maximum credit hour limit is 150% of the credit hours of the published degree/course requirements for the specific program in which the student is enrolled. Credit hours transferred from another college or university will be included in the calculation of the maximum period. The College will exclude developmental education credit hours from the 150% maximum. Once a student reaches the maximum attempted hours, the College places the student on Financial Aid Suspension. The College does not provide warning letters for maximum timeframe limit.

#### Satisfactory Academic Progress Measures

To make [Satisfactory Academic Progress \(SAP\)](#), a student must meet the following:

1. **Minimum Grade Point Average (GPA):** This qualitative measure evaluates a student's GPA on coursework at Angelina College. *Table B* presents the required GPA by credit hours attempted to maintain SAP.

**Table B**  
**Satisfactory Academic Progress (SAP) Minimum Grade Point Average per Credit Hours Attempted**

Credit Hours Attempted	Minimum GPA
1 – 20 hours	1.50 GPA
21 - 30 hours	1.75 GPA
31 and above	2.00 GPA

2. **Completion Pace:** This quantitative formula measures whether a student is on pace to complete their education within the maximum time frame. A student must complete at least two-thirds (66.7%) of the total cumulative hours attempted. Attempted hours for financial aid purposes are the hours a student was enrolled at the Census Date. Grades of W, F, or I will count as non-completed courses. The College calculates repeated courses as a part of the completion pace. For financial aid purposes, the College will consider a grade of IP in a developmental course as completion of that course. The College counts credit hours transferred from another institution toward pace but not toward GPA.

### **Financial Aid Warning and Suspension**

The College will place a student on financial aid warning status for one payment period if their cumulative GPA or Completion Pace is less than required, as stated above. A student will still be eligible for aid but on a financial aid warning status for the payment period. If the student does not reach the Minimum GPA or Completion Pace standards by the end of the warning payment period, the College will place them on financial aid suspension, and they will be ineligible for all financial aid assistance. The College will notify students of their warning or suspension status.

### **Reinstatement of Financial Aid**

A student who has lost eligibility for financial aid may regain eligibility by making Satisfactory Academic Progress if they take coursework that raises their minimum Grade Point Average (GPA) and Completion Rate to the levels outlined above. The student should contact the Office of Financial Aid once they have met these requirements.

### **Financial Aid Suspension Appeal**

Students whom the College has placed on Financial Aid Suspension may submit a written appeal of their suspension to the Office of Financial Aid if they feel their inability to make satisfactory academic progress was the result of the death of a relative, an injury or illness of the student, or other special circumstances. The appeal must include a detailed explanation of why the student failed to make satisfactory academic progress and what has changed in the student’s situation to allow them to demonstrate satisfactory academic progress by the end of the next payment period. The appeal must include supporting documentation to assist the appeals committee in making a determination. The financial aid appeals committee will consider the written appeal, and the College will notify the student of the committee’s decision before the next registration period. The College will not process financial aid appeals during a registration period. will not process financial aid appeals during a registration period.

### **Developmental Courses**

Students may receive federal aid for no more than 30 credit hours of remedial coursework.

### **Repeat Courses**

The College will allow students to repeat a course where they earn failing or incomplete grades. Students may receive aid only once for repeating a passed course. In both cases, however, hours attempted for repeating courses will be included in the maximum credit hour limit of 150% as specified in “Maximum Time Frame” above. Refer to this catalog's [System of Grading](#) section for repeated course GPA calculation.

### **Minimum Academic Standards for Students Receiving VA Educational Benefits**

A student receiving U.S. Department of Veterans Affairs (VA) educational benefits must maintain a cumulative GPA according to the information presented in [Table B](#) to make satisfactory progress.

### **Probation**

The College shall place students receiving VA educational benefits who fail to achieve an acceptable cumulative GPA, based on the hours attempted, on probation for one semester or summer term. If a student achieves a semester or summer term GPA of 2.0 or better during the probationary period but has not achieved the required cumulative GPA, the College may continue the student on probation for one more semesters or summer term.

### **Unsatisfactory Progress**

If the student on probation fails to achieve a 2.0 GPA at the end of the first probationary period, the College will report the student to the Veterans Affairs Regional Office (VARO) as making unsatisfactory progress. The College will report a student who fails to achieve a 2.0 GPA for the second probationary period to the VARO as suspended.

## **Financial Aid Refund Policy**

Financial aid will be awarded to student accounts by the [Office of Financial Aid](#). The Business Office will apply payments for tuition and fees, room and meal plan fees for residence hall students, and any charges authorized by the student to aid in the student’s account through the end of the add/drop period. At the end of the add/drop period, the Office of Financial Aid and Business Office will review each student’s account and eligibility for aid, make any adjustments for changes in enrollment status, and then calculate the student’s account balance. Once the College has made a determination of account balance, if a credit balance refund is due to the student, the College will issue a refund to the student within 14 days. The College will issue the refund via direct deposit to a personal account specified by the student, the student’s Herring Bank Card (see information below), or a check made payable to the student.

If aid was awarded or the student withdrew from their classes after the add/drop period, any credit balance refunds due to the student will be issued within 14 days of the award date or withdrawal date on a rolling basis during each semester.

Changes in enrollment status, including dropping courses, withdrawing from the College, or stopping attendance, could reduce the student’s financial aid award and, therefore, may reduce or eliminate a potential credit balance. Credit balance refunds, where tuition and fee payments are made by any federal, state, or local financial aid program, will be credited back to the proper program if a student: (a) withdraws or fails to complete a period of enrollment, (b) reduces the number of credit hours in which they are enrolled below their original Pell award status, or (c) does not register for the period of attendance for which aid was intended.

### **Student Refund Options**

At the time of enrollment, a student with financial aid may choose how they want to receive any credit balance refunds. A student who would like to receive their refund via direct deposit will have the option at the time they receive a Student ID Card to select the account to which their funds will be deposited electronically, whether it is the student's personal checking or savings account, or is a Herring Bank account that the student establishes.

### **Herring Bank Student Account Holder Cost Disclosure**

Students may find the cost disclosure for Herring Bank at <https://www.collegegreen.net/FTP/Angelina/Cost.pdf>.

Students may view Angelina College's Contractual Agreement with *Financial Payments, LP* at <https://www.collegegreen.net/FTP/Angelina/Contract.pdf>

## **General Refund Policy**

Angelina College follows the state-mandated refund policy for students who withdraw from all classes or who reduce their credit hour load.

Students who drop, who officially withdraw from Angelina College, or who are officially dismissed from Angelina College, and who are enrolled in semester-length courses shall receive refunds of tuition and mandatory fees as follows:

- Fall and Spring Semesters
  - Prior to the first-class day 100%
  - During class days one through fifteen 70%
  - During class days sixteen through twenty 25%
  - After the twentieth-class day None
- Summer Semesters
  - Prior to the first-class day 100%
  - During the first five class days 70%
  - During the sixth and seventh class days 25%
  - After the seventh day None

Students who drop courses, officially withdraw from Angelina College, or the College officially dismisses, and who are enrolled in flex courses and/or non-semester length courses with a census date other than the twelfth-class day (e.g., the fourth class day for the six-week summer semesters) shall receive refunds of tuition and mandatory fees in excess of the minimum tuition as follows:

- Prior to the first-class day 100%
- After classes begin See [Table B](#)

Students planning to drop a course or withdraw from the College should visit the Office of Financial Aid to determine how dropping or withdrawing from a course will affect their financial aid. A student may drop a course or courses by completing the necessary form in the Office of Academic Success.

According to federal regulations, the College must credit refunds to the federal programs in this order\*:

1. Federal Pell Grant Program

2. Federal Supplemental Educational Opportunity Grant (FSEOG) Program
3. Other Title IV Programs
4. Other Federal, State, private, or institutional assistance
5. The student

\*Angelina College does not participate in any student loan programs, including the Federal Stafford Loan, the Perkins Loan, or the Federal Plus programs.

### **Financial Aid Return to Title IV Policy**

Students receiving financial aid who withdraw or stop attending may be required to return a portion of financial aid received. Federal regulations (*HEA Section 484B, 485(a)(1)(F), 34 CFR 668.22*) require Angelina College to calculate a refund and repayment of federal aid received by students who withdraw or stop attending all courses on or before the 60% point of a term or semester for which they have received federal financial aid. At Angelina College, federal aid includes Pell Grants and Federal Supplemental Educational Opportunity Grants (FSEOG).

#### **Withdrawal Date**

According to these federal regulations, Angelina College and the student may retain only the earned amount of Title IV (federal) financial aid. If a student withdraws or stops participating in classes, a portion of the aid received by the student is considered unearned and must be returned to the Title IV programs from which it was received. For Title IV purposes, the last date of academic attendance is one of the following:

- The date the formal withdrawal process begins,
- The date the student otherwise gives official notice of intent to withdraw (e.g., letter, withdrawal form, in-person),
- The mid-point of the term, or
- The last documented date of attendance in an academically related activity (e.g., documented attendance in a class or lab or submission of an assignment in an online course).

#### **Process for Calculation of Amount of Title IV Aid Earned by the Student**

For any financial aid recipient who terminates enrollment before the 60% point of the semester, the Office of Financial Aid will calculate Return of Title IV refunds every 30 days up through the 60% point of the semester. The percentage of aid the student has earned is equal to the percentage of the semester the student has completed (the date the student withdrew from all classes). The College computes this percentage by dividing the total number of calendar days completed as of the last date of attendance by the total number of calendar days in the term. The percentage of Title IV assistance to which the student is entitled (i.e., has “earned”) equals this completed percentage, up to 60%. If the withdrawal occurs after the 60% point, the percentage the student has earned is equal to 100%. The amount of Title IV aid that must be returned is based on the percentage of unearned aid. The College computes that percentage by subtracting earned aid from 100%.

A student who fails all their classes in a term may be subject to a Return to Title IV calculation. If a student earned at least one of their F grades (i.e., they participated in class until the end of the semester and received an F for poor performance), then no Return to Title IV calculation is required. However, if the student failed all classes because they stopped attending at some point in the semester, then a Return to Title IV calculation is required based on the last documented date of attendance. If a last date of

attendance cannot be determined, the College will use the 50% point of the term as the withdrawal date, and the unearned aid will be 50%.

### **Post-Withdrawal Disbursement**

If the student received less federal financial aid than the amount earned, Angelina College will disburse the amount of earned grant funds that the College had not credited to the student's account. The College will pay this post-withdrawal disbursement directly to the student.

### **Title IV Aid Returned by Angelina College**

Angelina College is required to return the lesser of the unearned aid percentage applied to institutional charges or the unearned aid percentage applied to the total Title IV aid received within 45 days of the date of determination of the withdrawal. The College will return unearned aid to the aid programs in the following order: (1) Federal Pell Grant, (2) FSEOG.

### **Title IV Aid Returned by the Student**

The student is required to pay the difference between the amount of unearned aid and the amount returned by the College. Federal regulations allow colleges and universities to charge a student for any amount paid on the student's behalf. Angelina College considers a student responsible for reimbursement of any expenditures made on their behalf beyond tuition and fees, books, and room and meal plan fees for residence hall students, and the college will bill the student for any account balance created when the college is required to return financial aid funds to a federal grant program. The student must return the unearned aid that the college is not responsible for returning. If the student's portion of the unearned aid includes federal grants, they are only required to return the amount exceeding 50% of the original federal grant aid received for that semester. If the student owes less than \$50, then no payment is required.

### **Financial Aid Overpayments and Loss of Eligibility for Aid**

If a *Return of Title IV* calculation determines that a student owes money to the Department of Education, that student has received an overpayment. Within 30 days of this determination, The College will send the student an email notifying them of the balance owed. The College will give the student 45 days to repay the debt to Angelina College from the date the College sends notification. The College will report unpaid accounts to the *National Student Loan Data System* (NSLDS) and submit the account to the *Debt Resolution Services* for collection. Any student considered to have received an overpayment is not eligible for federal financial aid at any institution until the overpayment is resolved. The student may resolve overpayment by making full payment to Angelina College. The student may also resolve overpayment by contacting the *Debt Resolution Services* if the College has referred them for collection. The student must pay the overpayment amount in full or make payment arrangements with *Debt Resolution Services*.

## **Veterans Benefits and Related Processes**

A student seeking financial assistance through one of the U.S. Department of Veterans Affairs (VA) programs must meet with the [Financial Aid Veterans Advisor](#) (the VA certifying official for Angelina College) before the start of the first semester at AC to make sure their file is complete with [the required documentation](#).

### **VA Benefits Available at Angelina College**

The following VA benefits are available at AC. Any student enrolling under any of the various provisions outlined herein should bring with them sufficient funds to defray initial costs of tuition, fees, books,



personal expenses, etc., because there is usually a period of four to six weeks before the veteran or other eligible person receives the initial payment from the U.S. Department of Veterans Affairs.

- **Montgomery G.I. Bill® (Chapter 30).** The MGIB program provides up to 36 months of education benefits. The recipient may use this benefit for degree and certificate programs. Under certain circumstances, the recipient may receive approval for remedial, deficiency, and refresher courses. Generally, benefits are payable for 10 years following the recipient's release from active duty.
- **Post 9/11 G.I. Bill® (Chapter 33).** The Post-9/11 G.I. Bill provides financial support for education and housing to individuals with at least 90 days of aggregate service after September 11, 2001, or individuals discharged with a service-connected disability after 30 days. You must have received an honorable discharge to be eligible for the Post-9/11 G.I. Bill.
- **Chapter 31 Veteran Readiness and Employment (Public Law 894):** Title 38, U.S. Code, provides educational benefits to veterans who, because of a service-connected disability, require retraining or other vocational rehabilitation, may be entitled to educational assistance. Veterans must meet with a vocational rehabilitation counselor from the VA to receive these benefits. Students who meet one of these conditions should contact the Financial Aid Veterans Advisor in room 208 of the Student Center.

G.I. Bill® is a registered trademark of the US Department of Veterans Affairs (VA). More information about education benefits offered by the VA is available at the official US Government Website at <https://www.benefits.va.gov/gibill>.

The institution does not prohibit attendance or impose penalties while waiting on VA Payments, per 38 U.S.C. § 3679(e)(1)A&B.

### **Hazlewood Act**

The Hazlewood Act is a State of Texas benefit that provides qualified Veterans, spouses, and dependent children with an education benefit of up to 150 hours of tuition exemption, including some fee charges, at public higher education institutions in Texas. This benefit does not include living expenses, books, or supply fees. Veterans and their dependents who feel they may qualify for benefits under the Hazlewood Act should review the information and applications provided on the webpage of the Texas Veterans Commission at <http://www.tvc.texas.gov/Hazlewood-Act.aspx>. Students should submit completed applications and all supporting documentation to the Financial Aid Veterans Advisor in the Student Center.

## Angelina College Scholarships

Information about Angelina College Scholarships can be found at <https://www.angelina.academicworks.com>.

## Student Consumer Information

To keep future and currently enrolled students informed regarding available financial aid at Angelina College, the College provides the following information for the student's benefit. Any student wishing to review the documents concerning Angelina College's accreditation, approvals, and licensing of educational and professional agencies should contact the Office of the Vice President of Academic Affairs at 936-633-7370. The [Office of Financial Aid](#) can provide students with information concerning financial aid resources at Angelina College. The Office of Financial Aid is located in the Student Center building.

The cost of attendance, tuition, and fees can be viewed on the [Tuition and Fees webpage](#). Students may find a comparison of Angelina College's costs to that of other Texas colleges online at [College for All Texans](#).

To be eligible to receive Title IV financial aid, a student must be either a United States citizen or an eligible non-citizen, must have a high school diploma or its recognized equivalent, and be making satisfactory progress toward a certificate or degree. In addition, the student must submit a Free Application for Federal Student Aid (FAFSA; [www.studentaid.gov](http://www.studentaid.gov)), official transcripts from colleges, and all other documents needed to verify application information as requested.

All applications and required forms are available in the [Office of Financial Aid](#) in the College Student Center or online in the student's portal account. The FAFSA for the upcoming year is available online at [www.studentaid.gov](http://www.studentaid.gov) beginning in October of the previous year.

The College awards all Title IV Federal Government programs according to financial need. The College bases Pell Grant awards upon the Student Aid Index (SAI) number, as reported on the Student Aid Report from the U.S. Department of Education and the academic load for the semester. The College bases all other awards on need, eligibility, other financial aid awarded to the student, and the total government allocations to the College. The College bases the Federal Work-Study program eligibility upon the same criteria as other Title IV financial aid. The student works at scheduled times and performs the various duties outlined in the job description. Job descriptions are available in the Office of Human Resources. All jobs reflect actual work experiences. The College will make reasonable accommodations for student employees with disabilities. Student employees are at-will employees. Student employees are paid semi-monthly (i.e., approximately every two weeks). If a student employee's financial aid eligibility changes such that they are no longer eligible for work-study, the College may terminate the student's employment.

The College arranges all eligible students whose financial aid is complete in descending order according to need, and the College makes awards of the Title IV monies and other grant funds, other than PELL, at that time. The College disburses State allocated funds to eligible students on a first-come, first-serve basis. The amounts will vary depending on the funds allocated by the government to the College. Once the College makes awards, the Office of Financial Aid notifies the recipients.

The College disburses award payments for tuition, fees, books, and on-campus room and meal plan fees at registration. When the student registers for classes, the College deducts the cost for the above items

from the award, and the student receives the remainder of the award, if any, within two weeks of the College's cutoff of further charges to the award. Any awards made after the College issues balance disbursement checks will be made within fourteen days of file completion.

## ACADEMIC AFFAIRS DIVISION

### COLLEGE SERVICES

#### **Academic Advising Services**

Location: Student Center, 2nd Floor

Phone Number: 936-633-5212

Email: [advising@angelina.edu](mailto:advising@angelina.edu)

The Office of Academic Success promotes student success by helping students explore major and career choices, providing academic advising, and facilitating dual enrollment. Success Coaches empower students by providing the necessary tools to formulate a pathway to a degree or certificate through one-on-one coaching. The office also assists students who plan to further their education by transferring to a four-year institution. The Office of Academic Success actively collaborates with Student Affairs to provide students with various resources, including career and transfer fairs, workshops, and special student support services. The office aims to provide student-centered services in a supportive and professional environment.

#### **Career Coach Software**

*Career Coach* is an online tool to help students discover majors, in-demand careers, and other educational opportunities based on their interests. A career assessment helps students learn about themselves and provides interest-based career suggestions. Students can browse careers and see relevant wages, employment, and necessary training at <https://youtu.be/xdiKtOb2AQL>. Career Coach provides information on programs that lead to the careers students wish to pursue. Veterans may use Career Coach to find civilian careers related to their military occupations. Career Coach also offers an easy-to-use résumé builder to help students create professional résumés.

#### **Library/Learning Resource Center**

Webpage: <https://www.angelina.edu/ac-library/>

Phone: (936) 633-5220

Email: [aclibrary@angelina.edu](mailto:aclibrary@angelina.edu)

The library provides in-person and online information access and research assistance to the Angelina College community of students, faculty, and staff. The Angelina College Library houses approximately 8,400 books and periodicals and provides access to e-books, electronic reference resources, and thousands of online scholarly periodicals. The Learning Resource Center staff is available to assist students in assessing the quality of information sources, properly citing others' work, providing information literacy instruction, and identifying possible sources for any research project. In addition to reference and research assistance, the AC Library building offers variable study spaces, study rooms, open computer use, photocopy services, and ADA-compliant technology. The free Tutoring Center is located on the second floor of the library.

## Office of the Registrar

Location: Temple Hall – Business Building, 1st Floor

Phone Number: 936-633-5309

Email: [Office of the Registrar](mailto:Office of the Registrar)

It is the mission of the Office of the Registrar to maintain the accuracy, integrity and security of student records; foster procedures to ensure that records are correct and compliant; perform degree audits that result in accurate graduation certification; comply with appropriate federal and state regulations, and strive to deliver quality service to students, faculty, administrators and staff through effective communication, collaboration and use of technology.

The Office of the Registrar assists students with the following:

- Academic Fresh Start
- Alternative Credits
- Audit Course Requests
- Enrollment/Degree Verifications
- Non-disclosure of Directory Information
- Receipt of College Transcripts (incoming)
- Review of Graduation Requirements
- Review of Records (transcript discrepancies)
- Transcript Requests (outgoing)
- Transfer Course Evaluations

## Tutoring Center

Webpage: <https://www.angelina.edu/tutoring/>

Phone: 936-633-4504

Email: [tutoring@angelina.edu](mailto:tutoring@angelina.edu)

The AC Tutoring Center provides free tutoring to all current Angelina College students, both online and in person. The Kurth Foundation provided a generous grant to establish the Tutoring Center.

Tutoring is available from 9 a.m. until 5 p.m., Monday through Thursday, by degreed tutors and peer tutors. Students are not required but are encouraged to make appointments for tutoring sessions. To see the list of subjects and tutoring times, students should consult the tutoring page on AC's website, [www.angelina.edu/tutoring](http://www.angelina.edu/tutoring)

The Tutoring Center offers tutoring in English grammar and writing, math, science, accounting, health careers, and Spanish.

Students have two options for online tutoring: TutorMe and the AC Tutoring Center. For 24-hour assistance, students may choose TutorMe. TutorMe is an option in each student's Blackboard account in the "Tools" menu. With TutorMe, professional tutors are available 24/7 in most subjects.

Students may also call or email the AC Tutoring Center to request an online session with one of the AC Tutoring Center tutors. These online sessions vary according to each tutor's schedule. The Tutoring Center conducts online tutoring via Blackboard Collaborate and AC email. For more information about online tutoring, contact the AC Tutoring Center by emailing [tutoring@angelina.edu](mailto:tutoring@angelina.edu) or calling 936-633-4504.

## Testing Center

Library, 1<sup>st</sup> Floor, Room 103

Phone: (936) 633-5495; Email: [ac\\_tc@angelina.edu](mailto:ac_tc@angelina.edu)

The mission of the Testing Center is to provide a professional testing environment in which students and community members can take a wide variety of examinations. The center strives to provide excellent customer service and to support student success.

**Tests Administered by the Testing Center:** The Testing Center administers the [Texas Success Initiative Assessment 2.0 \(TSIA2\)](#) and is an official Pearson Vue Testing Center. Pearson Vue is a leading innovator in computer-based exams and certifications, delivering secure exams across the globe. The testing center offers over 6000 Pearson Vue exams.

Students may view available tests and schedule tests [Testing Center webpage](#).  
[www.angelina.edu/testing](http://www.angelina.edu/testing).

Students who cannot test under standard conditions should request special testing accommodations through the Office of Student Disability Services. For more information, see the “[Disability Support Services](#)” in this catalog.

## DISTANCE EDUCATION

Angelina College is committed to delivering the same quality of instruction and student services and ensuring compliance with the Southern Association of Colleges and School Commission on Colleges (SACSCOC) Principles of Accreditation at all locations and in all delivery methods. Angelina College has adopted the SACSCOC definition of *distance education*, which is the following:

Distance education is a formal educational process in which the majority of the instruction (interaction between students and instructors and among students) in a course occurs when students and instructors are not in the same place. Instruction may be synchronous or asynchronous. (SACSCOC, 2020, p. 1).

### Distance Education Terminology

The College uses the following terms for distance education courses:

- **Blackboard:** *Blackboard* is the online learning management system (LMS) the college uses to deliver all distance education courses and to augment many conventional in-person courses.
- **Blackboard Collaborate:** The College also provides Blackboard *Collaborate*, a browser-based web conferencing solution for learning. Students log into the Blackboard system and Collaborate virtually through the Blackboard LMS.
- **Office Hours:** The instructor of each distance education course will be available online or in person during published office hours or by appointment to help or consult with students enrolled in any Angelina College course, regardless of how the College delivers it.
- **Synchronous courses:** Synchronous courses have online class meetings on set schedules and during specific timeframes, usually through Blackboard Collaborate. Students must be online at the exact time of each class meeting to participate in the course.

- **Asynchronous courses:** Asynchronous courses are online courses that do not have regularly scheduled class meetings; however, limited scheduled meeting times may be required at the instructor's discretion. In asynchronous courses, the instructor provides all course materials, lectures, tests, and assignments through Blackboard. The instructor of an asynchronous course will require students to regularly complete coursework by published deadlines, engage in course material or activities, or both in Blackboard.
- **Hybrid courses:** Hybrid courses combine asynchronous online instruction with conventional in-person class meetings. The instructor will deliver between 50% and 85% of the coursework online through Blackboard, typically in an asynchronous format. Students will complete the remaining coursework during scheduled in-person class meetings that all students enrolled in the course must attend.
- **Hyflex courses:** Hyflex courses offer students greater flexibility in their learning environment. Throughout the semester, students can attend class in any of the three course delivery modes (face-to-face, asynchronous, or synchronous).

### **Secure Username and Password**

The College issues each student a secure username and password for the College's online student portal and Blackboard to ensure the student who registers in a distance education course or program is the same student who participates in and completes the course or program and receives the credit. It is a violation of the Student Code of Conduct for any student to access any college computer, website, or internet service using another student's username and password. It is also a violation of the Student Code of Conduct for any student to knowingly allow another student to use their username and password to access any college computer, website, or internet service.

### **Regular and Substantive Interaction (RSI)**

The Department of Education's final rules on Distance Education and Innovation clarify Regular and Substantive Interaction (RSI) within online courses. "Regular" is defined as taking place on a "predictable and scheduled basis." "Substantive" means students are engaged through teaching, learning, and assessment and at least two of these five activities: (1) Providing direct instruction, (2) Assessing or providing feedback on a student's coursework, (3) Providing information or responding to questions about the content or competency, (4) Facilitating a group discussion regarding the content of a course or competency, or (5) Or other instructional activities approved by the institutions or program's accrediting agency.

### **Academic Engagement**

In a full-semester course (16 weeks), students should be expected to engage academically weekly in all online, hybrid, or HyFlex courses. Examples of academic engagement include but are not limited to watching pre-recorded lectures, reading course material, working on a group project, participating in a discussion forum, attending a seminar, webinar, or guest lecture, and submitting an assignment or assessment (including auto-graded assessments).

### **Online Proctored Exams**

Students enrolled in a distance education course may also be required to take proctored exams, which require picture identification and specific technology requirements outlined in the course syllabi.

## **Off-Campus Instructional Sites**

### **Off-Campus Instructional Sites and Centers**

Angelina College operates off-campus instructional sites. In keeping with SACSCOC policy, the College distinguishes between off-campus instructional sites where students can obtain 50% or more of the credits toward at least one academic program and sites where students can obtain 25-49% percent of the credits toward at least one academic program. Off-campus instructional sites may include centers controlled and operated by Angelina College, high schools in the College's service area, medical centers and hospitals, and facilities operated by third parties. A list of locations, programs offered, and the percentage of those programs can be viewed on the [Instructional Locations webpage](#).



## STUDENT AFFAIRS DIVISION

### Office of Student Affairs

Location: Conference Center, 1<sup>st</sup> Floor

Phone Number: 936-633-5344

Email: [studentservices@angelina.edu](mailto:studentservices@angelina.edu)

The mission of the Office of Student Affairs is to be a vital student resource as students journey through their academic or career track. This office offers various services to ensure students persist, graduate, and join the workforce or transfer to a four-year university. The Office of Student Affairs is equally committed to an inclusive campus where all students are given equal and equitable access to opportunities for success.

### Title IX

Contact: Tifini Whiddon

Title: Senior Director of Human Resources

Phone Number: 936-633-4511

Email: [twhiddon@angelina.edu](mailto:twhiddon@angelina.edu)

Title IX of the Education Amendments Act of 1972 is a federal law that states:

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. 20 U.S.C. §1681(a)

To report a Title IX violation or to ask questions regarding Title IX, contact Tifini Whiddon, Senior Director of Human Resources. Students may also contact the US Department of Education, Office for Civil Rights (800-421-3481) to complain of sex discrimination or sexual harassment, including sexual violence. The Title IX policy is on the Angelina College website, [angelina.edu/policies-and-procedures](http://angelina.edu/policies-and-procedures)

### Student Support Services

Location: Conference Center, 1<sup>st</sup> Floor

Phone Number: 936-633-5344

Email: [studentservices@angelina.edu](mailto:studentservices@angelina.edu)

The Office of Student Affairs is committed to providing accommodations and resources to students so that they will be successful at Angelina College. Student Support Services is one unit within the Office of Student Affairs that offers an array of services for students with needs, including but not limited to finding community resources, obtaining financial assistance for emergencies, targeted programming for traditionally underserved student populations, and providing accommodations.

For more information concerning Student Support Services, contact the Office of Student Affairs by email at [studentservices@angelina.edu](mailto:studentservices@angelina.edu) or call (936) 633-5344.

### Disability Support Services

Location: Library, 2<sup>nd</sup> Floor  
Phone Number: 936-633-4504  
Email: [disabilityservices@angelina.edu](mailto:disabilityservices@angelina.edu)

Student Disability Services provides reasonable accommodations for a qualified individual with a disability as defined in the Rehabilitation Act of 1973, Section 504, and the American Disabilities Act of 1990.

Students with unique learning needs and learning disabilities must self-identify to receive accommodations. The College will provide reasonable accommodations for a student with a diagnosed physical disability, learning disability, or both provided the student:

1. **Self-Identifies:** To self-identify, a student should fill out the Educational Accommodations application online.
2. **Provides up-to-date Documentation:** Documentation that substantiates a diagnosed physical disability, learning disability, or both must be less than five years old. The student may upload this documentation within the online Educational Accommodations Application or turn it into the Office of Student Affairs.

The Office of Student Affairs will review the application and supporting documentation. If educational accommodations are required, Student Affairs will send an Accommodations Memo to the student's email address. Student Affairs will also send the Accommodations Memo to the instructors of the student's courses and the Testing Center if testing accommodations are necessary. The application for student disability services can be accessed through the student portal under the "Student Services" tab.

## Residence Life

Programming for on-campus residents is designed to promote social interaction, opportunity, leadership, and success. The Office of Student Affairs offers residents personal, social, and academic support and resources.

## Student Life and Orientation

Location: Conference Center, 1<sup>st</sup> Floor  
Phone Number: 936-633-3253  
Email: [studentlife@angelina.edu](mailto:studentlife@angelina.edu)

Student Life encourages and promotes an environment committed to the achievement of academic goals by enhancing students' intellectual and social growth by creating unique learning experiences that expand beyond the classroom. Student Life focuses on programs that foster the advancement of students' ethical, cultural, emotional, and personal development. By being offered a unique learning experience to stimulate and develop leadership skills, global awareness, and ethical and social growth, students become student leaders of today and global citizens of tomorrow.

### **New Student Orientation**

Angelina College offers an in-person New Student Orientation and an online orientation for those who are unable to attend in person to meet the needs of our students. All students must complete New Student Orientation as a part of the admissions process. Orientation prepares students to transition into college life and face the challenges and opportunities that lie ahead. Completing New Student Orientation familiarizes students with campus resources and answers many questions. Questions related to New Student Orientation should be directed to the Office of Student Affairs at 936-633-3253 or [orientation@angelina.edu](mailto:orientation@angelina.edu).

### **Registered Student Organizations**

Students are encouraged to form and join registered student organizations to enrich their social experience on campus and to engage in academic, service, or other worthwhile experiences. To learn how to form a registered student organization, contact the Student Life and Orientation Coordinator on the second floor of the Student Center. The Student Life and Orientation Coordinator also maintains a list of all registered student organizations for students interested in joining. A list of student organizations is available at <https://www.angelina.edu/studentorganizations/>.

### **International Students**

Certain employees in the Office of Student Affairs serve as designated school officials for the Student and Exchange Visitor Program (SEVIP). The designated Student Affairs employees will answer questions about Certificate of Eligibility for Nonimmigrant (F-1) Student Status (i.e., Form I-20), visa status, and other questions international students may have.

### **Other Campus Activities**

#### **Angelina College Chorale**

The Angelina College Choir is open by audition to all students of the College. In addition to regular campus performances, the choir will appear in concerts for civic organizations and participate in musical theater productions.

Contact: Beckie Compton, [bcompton@angelina.edu](mailto:bcompton@angelina.edu)

#### **AC Singers**

*AC Singers* is a select ensemble chosen by audition from the College Choir. *AC Singers* perform in various community events and travel on occasion to participate in functions at the state level. The *AC Singers* performances include choreography. Students must register concurrently in PHED 1104.

Contact: Beckie Compton, [bcompton@angelina.edu](mailto:bcompton@angelina.edu)

#### **Recitals and Forums**

Members of the music faculty give recitals presenting classical and contemporary compositions. In addition, the College organizes visiting artist programs and lectures of general musical interest. Music students have an opportunity to appear in recitals, forums, or both that provide a valuable laboratory period to perform before an audience.

Contact: Visual and Performing Arts, 936-633-5233, [lfeldpausch@angelina.edu](mailto:lfeldpausch@angelina.edu)

## BUSINESS AFFAIRS DIVISION

### Campus Police Department

24-Hour Phone: (936) 676-2563

Emergency: Dial 911

Email: [policedepartment@angelina.edu](mailto:policedepartment@angelina.edu)

The Angelina College Police Department engages in *community policing*, which means officers engage students and employees to better understand their perceptions of campus and personal safety. The police officers and security personnel develop relationships and partnerships with individuals and other offices to foster an environment of mutual respect and understanding. AC police officers are fully licensed peace officers of the State of Texas and have full authorization to enforce any laws, including addressing criminal and noncriminal behavior. The Campus Police Department has jurisdiction in 12 counties served by Angelina College. The department is also critical to the College's response to emergencies and critical incidents.

**Safety on Campus:** Students should always be aware of their surroundings while on the Angelina College campus to ensure their safety. As stated in the student handbook under "parking and traffic" regulations, pedestrians have the right-of-way; however, it is advisable to be cautious when walking to and from the parking areas. When walking to and from classes or other college activities, use the sidewalks and do not take shortcuts through the lawns or parking areas. A Campus Police Officer or security guard is on duty 24 hours a day, including weekends and holidays. AC police officers communicate with local authorities, and emergency response time is excellent. Students should immediately report Auto accidents, criminal activities, and other emergencies to the Campus Police Department. Upon notification, the Campus Police Department will conduct an on-site investigation to determine the necessity of involving the local authorities and the appropriate action to be taken.

### Information Technology (IT) Helpdesk

Location: Administration Building, 1<sup>st</sup> Floor

Phone: 936-633-5208

Email: [ithelpdesk@angelina.edu](mailto:ithelpdesk@angelina.edu)

Students can reach the IT Helpdesk by calling (936) 633-5208, emailing [ithelpdesk@angelina.edu](mailto:ithelpdesk@angelina.edu), or visiting the help desk in the Administration Building. The help desk can help current students with technology needs related to Angelina College server accounts, such as

- Finding student ID numbers;
- Helping with usernames/passwords for accounts such as the AC Portal, email, and Blackboard;
- Assisting with assignment upload into Blackboard; and
- Helping connect their smartphones, tablets, or laptops to the *AC Student* wireless network.

Helpdesk hours are 8:00 a.m. to 5:00 p.m., Monday through Friday. Summer helpdesk hours are 8:00 a.m. to 5:00 p.m., Monday through Thursday. Staff will respond to voicemails and emails as quickly as possible.

### AC Portal

Currently enrolled students may access some of their student information on the AC Portal ([myac.angelina.edu](http://myac.angelina.edu)). The AC Portal provides information such as class schedule, student account information, student financial aid information, student grades at the end of each term, and an unofficial Angelina College transcript. Students may also use the AC Portal for course registration. Students may contact the IT Help Desk on the first floor of the Administration Building, email [ithelpdesk@angelina.edu](mailto:ithelpdesk@angelina.edu), or call (936) 633-5208 for more information.

### **Office of Human Resources (HR)**

Location: Administration Building, 2<sup>nd</sup> Floor

Phone: 936-633-4511

Email: [hr@angelina.edu](mailto:hr@angelina.edu)

Work-Study Positions: Students interested in a work-study position should contact the Office of Human Resources and then fill out an application on the [AC Employment page](#).

### **Business Office**

Location: Student Center, 2<sup>nd</sup> floor

Phone: 936-633-5318

Email: [businessoffice@angelina.edu](mailto:businessoffice@angelina.edu)

The Business Office provides various services to students, staff, College departments, and external agencies. The office supports the College's Mission through exemplary fiscal administration and effective oversight of financial operations and resources for the main Lufkin campus and various sites that comprise the Angelina College District and service area.

The Controller reports to the VP of Business Affairs and is responsible for leadership and supervision of all areas of AC's business office. Business Office services include the following:

- Cashier
- Accounts Payable
- Financial Accounting and Reporting
- Payroll
- Procurement & Materials Management
- Accounts Receivable
- Student Billing

### **Physical Plant Operations**

Angelina College's Office of Physical Plant Operations is responsible for the day-to-day operation and condition of all AC buildings and grounds. This division comprises teams of dedicated and skilled technicians trained in the trades to repair, maintain, and alter the College's buildings and grounds.

AC's Physical Plant and Operations directs campus planning and construction for the College, including all new construction, remodeling and furnishings, management of all efforts relating to sustainability, and management of utilities. The department strives to deliver sustainable environments that promote learning and provide safe and accessible facilities for the students, faculty, staff, and communities AC serves.

To submit a work request, please email [maintenance@angelina.edu](mailto:maintenance@angelina.edu). Work requests include:

- Replacing light bulbs
- Plumbing problems

- Electrical repairs/resetting breakers
- Adjusting room temperatures
- Air conditioning and heating repairs
- Room painting
- Replacing ceiling or floor tiles
- Pest control
- Hanging pictures or bulletin boards
- Repairing door hardware or locks
- Landscape irrigation repairs and special grounds requests

To report a maintenance emergency during regular business hours, please call the Physical Plant Office. Examples of these emergencies are:

- Flood
- Personnel stuck in an elevator
- A broken window
- An overflowing toilet
- Power outage

### **Campus Store**

Course material can be viewed and purchased at the Angelina College online bookstore: <https://bncvirtual.com/angelina>.

### **Grants & Sponsored Programs**

The mission of the Grants & Sponsored Programs department is to help faculty, staff, and administration secure external funds for the college's programs and services. The Grants & Sponsored Programs department assists faculty, staff, and administrators by:

- Identifying appropriate funding sources,
- Designing high-quality grant proposals,
- Fostering relationships with other College departments,
- Facilitating an understanding of the grant application process,
- Administering and monitoring of programmatic and financial activities of awarded grants, and
- Securing external funds that help meet the College's mission.

## STUDENT SERVICES DIVISION

### Office of Admissions

Location: Student Center, 1<sup>st</sup> Floor

Phone Number: 936-633-5210

Email: [admissions@angelina.edu](mailto:admissions@angelina.edu)

The Office of Admissions and Student Records offers service and support through the admissions process, assists students with transcript services, and maintains accurate and secure student data records.

### Office of Financial Aid

Location: Student Center, 1st Floor

Phone Number: 936-633-5470

Email: [fareceptionist@angelina.edu](mailto:fareceptionist@angelina.edu)

The Office of Financial Aid provides information regarding federal and state financial aid, veterans' benefits, and institutional scholarships. Job postings and applications for work-study awards can be obtained through the Office of Human Resources.

### Athletics

Location: Activity Center, 1<sup>st</sup> Floor

Phone Number: 936-671-7342

Email: [acathletics@angelina.edu](mailto:acathletics@angelina.edu)

Angelina College is a member of the Region XIV Conference of the National Junior College Athletic Association (NJCAA) and competes in men's and women's soccer, men's and women's basketball, baseball, and softball.

AC participates in intercollegiate athletics to develop student-athletes and to contribute to a vibrant campus experience for all students. Intercollegiate athletics promotes character traits necessary for success in life, such as applying talents to achieve the highest level of performance, embracing the discipline needed to thrive in a competitive environment, learning to work with others as a team to pursue a common goal, and adhering to codes of fairness and sportsmanship. Angelina College athletics is committed to supporting the physical health, emotional health, and holistic development of student-athletes.

## WORKFORCE & CONTINUING EDUCATION DIVISION

The Angelina College Workforce & Continuing Education Division provides many programs and services for students and the community. Workforce & Continuing Education courses and programs do not offer academic credit hours, but financial aid may be available for students enrolling in Workforce & Continuing Education courses and programs. Non-credit courses are open to the public, and there are usually no entrance requirements for adults who wish to take a course. Some state-mandated prerequisites, including age and education level, are required for certain courses in health occupations and public safety areas. Any person with disabilities who needs auxiliary aids, services, or assistance for on- or off-campus registration or classes should contact (936) 633-4504 at least five days before registration or class attendance so the College can make appropriate accommodations.

The Workforce & Continuing Education Division publishes a schedule of fall, spring, and summer offerings. The division office prepares instructional materials and offers certificates of completion to students.

Angelina College awards continuing education units (CEUs) to individuals who have successfully completed educational activities for which the College does not award academic credit. The nationally accepted definition of “continuing education units” is “ten contact hours of participation in an organized continuing education adult or extension experience under responsible sponsorship, capable direction, and qualified instruction” (IACET, 2018). The CEU is a means of recording and accounting for the various continuing education activities accumulated over a period of years in transcript form.

The College selects instructors for non-credit courses based on the competency and interest of College faculty and from leading businesses and professionals in the community.

The College determines the cost for non-credit courses by course length, instructional costs, and materials and supplies used. The College publishes course fees in each semester’s schedule. The College may offer financial aid through the Office of Financial Aid. Many students also qualify for assistance through the Texas Workforce Commission. Organizations may request third-party billing arrangements to enroll students.

Students wishing to withdraw from a non-credit course may do so at any time by notifying their instructor. However, those seeking a refund must notify the Workforce & Continuing Education Division Office in person, by calling, or in writing. The College will issue refunds according to the refund schedule printed in the class schedule.

The following is a list and brief description of the programs and services currently offered by Workforce & Continuing Education.



## **Nonprofit Leadership Center (NPLC)**

Location: Community Services Building, 1<sup>st</sup> Floor

Phone Number: 936-633-5328

Email: [nonprofit@angelina.edu](mailto:nonprofit@angelina.edu)

Webpage: [Nonprofit Leadership Center - Angelina College](#)

The Angelina College Nonprofit Leadership Center (NPLC) provides educational programs and support services to nonprofit organizations. The center offers training for both emerging and tenured leaders and other resources tailored to serve the particular needs of nonprofit organizations. The center also maintains a “board bank,” a listing of individuals who are qualified and willing to serve with nonprofit organizations in East Texas. For information about the NPLC, call (936) 633-5328.

## **Small Business Development Center (SBDC)**

Location: Community Services Building, 1<sup>st</sup> Floor

Phone Number: 936-633-5394

Email: [sbdc@angelina.edu](mailto:sbdc@angelina.edu)

Webpage: [Workforce & Continuing Education - Angelina College](#)

The Small Business Development Center (SBDC) was established at the college in October 1991 under a continuing grant from the Small Business Administration and operates as a sub-center of the University of Houston SBDC. The center provides free consultation and advising services to small businesses in the service area and serves as an economic development catalyst in helping businesses create jobs. These services provide information and advice for starting up, resolving operational problems, developing resources and funding, and training. The center also provides a unique service with on-site Business Advisors who directly assist small business owners with small business loan services in times of disaster.

The center also has a continuing schedule of seminars addressing business start-ups, funding, marketing, bookkeeping, advertising, creating business plans, management, computer operations, and software. For information about the SBDC, call (936) 633-5400.

## **Workforce & Continuing Education Programs**

The Workforce & Continuing Education division offers programs in allied health, business and industry, cultural and personal interest, public safety, risk management and safety, and customized workforce contract training. Course offerings may be delivered in face-to-face, distance learning, or hybrid formats.

For information on any of the programs below, please visit <https://www.angelina.edu/academics-old/workforce-ce/> or call 936-633-5424.

### **Allied Health**

Allied Health provides training that offers a state or national certification that leads to work for students. Programs offering a certificate for work include Medical Assistant (RMA), Electrocardiograph (EKG) Technician, Medication Aide (CMA), Nurse Aide (CNA), Patient Care Technician, and Phlebotomy Technician. Additionally, Allied Health offers a continuing education update for retaining licensure in all these programs. Allied Health works with numerous local high schools to bring workforce education

courses to high school students throughout the College service area. Classes are offered on campus and in many off-campus locations in the College service area.

**Medical Assistant**

The Medical Assistant program prepares the student to draw blood and give injections in a physician’s office under the supervision of the doctor or physician’s assistant (PA). The medical assistant also answers phones, handles insurance and billing for the office, and provides instructions to patients on medical conditions.

Non-Credit Medical Assistant Program | 720 Hours

HITT 1055	MEDICAL TERMINOLOGY	96 HOURS
MDCA 1021	MEDICAL OFFICE PROCEDURES	128 HOURS
MDCA 1043	MEDICAL INSURANCE & FINANCE	96 HOURS
MDCA 2061	CLINICAL PROCEDURES	184 HOURS
MDCA 1061	CLINICALS	216 HOURS

**Electrocardiograph (EKG) Technician**

Electrocardiograph (EKG) Technicians are healthcare professionals who perform diagnostic tests that help doctors identify cardiovascular problems in patients.

Non-Credit Electrocardiograph Technician Program | 48 Hours

ECRD 1011	EKG TECHNICIAN	48 HOURS
-----------	----------------	----------

**Medication Aide**

A Certified Medication Aide is a certified nursing assistant (CNA) responsible for administering daily medication to patients in a medical facility.

Non-Credit Medication Aide Program | 150 Hours

NURA 1013	MEDICATION AIDE	150 HOURS
-----------	-----------------	-----------

**Nurse Aide**

Nurse aides are heavily involved in a patient’s life and assist their patients with daily activities such as dressing, bathing, feeding, taking vital signs, helping patients walk, assisting with exercise, and much more. Nurse Aides also play a crucial role in keeping the nurse up-to-date on the patient’s well-being.

Non-Credit Nurse Aide Long-Term Care Program | 116 Hours

NURA 1001	NURSE AIDE CLASSROOM	76 HOURS
NURA 1060	NURSE AIDE CLINICAL	40 HOURS

### Patient Care Technician

Patient care technicians are medical professionals who provide daily care for patients. Under the supervision of a registered nurse or nursing team, they assist with taking vital signs, helping to move patients around a clinic, and more. Their ultimate goal is to ensure the patient feels comfortable and nurtured in a healthcare setting by communicating changes in their medical condition and potential issues to the nurse.

Non-Credit Patient Care Technician program | 288 Hours

EMSP 1019	CPR – BASIC LIFE SUPPORT	8 HOURS
NURA 1001	NURSE AIDE CLASSROOM	76 HOURS
NURA 1060	NURSE AIDE CLINICAL	40 HOURS
PLAB 1023	PHLEBOTOMY CLASSROOM	68 HOURS
PLAB 1062	PHLEBOTOMY CLINICAL	48 HOURS
EKG	EKG TECHNICIAN	48 HOURS

### Phlebotomy Technician

Phlebotomy technicians collect blood from patients and prepare the samples for testing. Most work in hospitals and clinics, but some collect blood for donation purposes. Phlebotomy technicians are essential members of the health care team and often need to explain the blood-drawing procedure and put patients at ease.

Non-Credit Phlebotomy Technician Program | 116 Hours

PLAB 1023	PHLEBOTOMY CLASSROOM	68 HOURS
PLAB 1062	PHLEBOTOMY CLINICAL	48 HOURS

## Business & Industry

### Forklift Operator

Angelina College offers a Forklift Operator program. Individuals who successfully complete the one-day program will earn a 2-year Forklift Operator Certification through the National Safety Council.

Non-Credit Forklift Operator Program | 8 Hours

CNSE 1003	FORKLIFT OPERATOR	8 HOURS
-----------	-------------------	---------

### Heavy Equipment Operator

Angelina College offers a training program to prepare students to operate bulldozers, motor graders, and excavators. The program is typically delivered in ten to twelve weeks, and students who complete the training receive a certification through the National Center for Construction Education and Research (NCCER).

Non-Credit Heavy Equipment Operator Program | 175 Hours

CNSE 1041	HEAVY EQUIPMENT OPERATOR I	80 HOURS
CNSE 1021	HEAVY EQUIPMENT OPERATOR II	95 HOURS

**Truck Driving – Class A Commercial Driver License (CDL)**

Angelina College offers a four-week course to prepare individuals to pass the Class A Commercial Driver License examination. Students gain experience using industry-appropriate equipment.

Non-Credit Truck Driving – Class A CDL Program | 200 Hours

CVOP 1005	CDL WRITTEN SKILLS	50 HOURS
CVOP 1013	PROFESSIONAL TRUCK DRIVING	150 HOURS

**Public Safety**

**Fire Academy**

Angelina College established a fire academy in 1998-99, which is approved under the rules and regulations of the Texas Commission on Fire Protection and the Texas Higher Education Coordinating Board. Programs include basic volunteer firefighter certification, paid firefighter certification, and numerous firefighter continuing education topics for re-licensure. For information about the Fire Academy, call (936) 633-3238 or email [fireacademy@angelina.edu](mailto:fireacademy@angelina.edu).

Non-Credit Basic Fire Suppression Program (Fire Academy) | Pell Eligible Program | 628 Hours

FIRS 1001	FIREFIGHTER CERTIFICATION I	88 HOURS
FIRS 1007	FIREFIGHTER CERTIFICATION II	88 HOURS
FIRS 1013	FIREFIGHTER CERTIFICATION III	88 HOURS
FIRS 1019	FIREFIGHTER CERTIFICATION IV	88 HOURS
FIRS 1023	FIREFIGHTER CERTIFICATION V	88 HOURS
FIRS 1029	FIREFIGHTER CERTIFICATION VI	88 HOURS
FIRS 1033	FIREFIGHTER CERTIFICATION VII	92 HOURS
EMSP 1019	CPR – BASIC LIFE SUPPORT	8 HOURS

The student must complete a basic Emergency Medical Services (EMT) course to secure work as a paid firefighter after completing the program. This course may be taken before or after the fire academy program.

**Angelina College Regional Law Enforcement Academy**

Angelina College was issued a license to operate a Law Enforcement Academy in 12 East Texas counties in September 1993 by the Texas Commission on Law Enforcement (TCOLE). The academy offers basic and in-service training courses at sites throughout Deep East Texas, with an advisory board assisting in directing the academy. The first training by the academy began in the spring of 1994.

For in-service calendar information, email [policeacademy@angelina.edu](mailto:policeacademy@angelina.edu).

For information about the Law Enforcement Academy or In-Service Training, call (936) 633-3238 or email [policeacademy@angelina.edu](mailto:policeacademy@angelina.edu).

**Non-Credit Basic Peace Officer Course (Law Enforcement Academy) | Pell Eligible Program | 756 Hours**

CJLE 1006	BASIC PEACE OFFICER I	148 HOURS
CJLE 1012	BASIC PEACE OFFICER II	150 HOURS
CJLE 1018	BASIC PEACE OFFICER III	150 HOURS
CJLE 1024	BASIC PEACE OFFICER IV	150 HOURS
CJLE 1029	BASIC PEACE OFFICER V	150 HOURS
EMSP 1020	CPR + AED	8 HOURS

**Risk Management and Safety**

The Risk Management & Safety program at Angelina College was created with donations from Texas Mutual Insurance Company to provide the community and employers with safety-related training. Risk Management & Safety courses, such as CPR, Forklift Operator, and OSHA, are provided at a reduced tuition rate due to the partnerships with Texas Mutual Insurance Company.



**Customized Workforce Training**

Angelina College works with employers to provide customized training through the Skills Development Fund. Workforce & Continuing Education can customize training to provide a curriculum and training schedule to suit an employer’s needs. Classes are held at the employer’s site or Angelina College. Angelina College also offers a variety of non-credit courses and programs to train individuals to work in manufacturing, construction, and office environments. For information about grant-funded training for employers, call (936) 633-5412.

**Cultural and Personal Interest**

Workforce & Continuing Education offers a wide variety of non-credit courses to the community to provide social interaction and the development of skills for personal interests. Workforce & Continuing Education usually offers classes on weekdays during the day or in the evening.

**Camp Roadrunner**

Angelina College offers camps for children and young adults during the summer that provide fun learning experiences on a variety of topics.

## GENERAL ACADEMIC INFORMATION

### Definitions

#### **Credit Hour**

A *Credit Hour* is a unit of measure representing an hour (50 minutes) of instruction each week of a 15-week period in a semester. The College applies credit hours toward the total amount of instruction for completing the requirements of a degree, certificate, or other formal award. The College considers two laboratory hours to be equivalent to one classroom hour.

#### **Academic Level**

A student is classified as a freshman or sophomore according to the number of semester hours of credit completed. A freshman classification includes those students who have earned fewer than 30 credit hours. Sophomore classification requires the completion of 30 or more credit hours.

#### **Academic Load**

Students enrolled in 12 or more credit hours will be considered full-time students. Students enrolled in less than 12 credit hours are classified as part-time. The College strongly recommends students pursuing an associate's degree enroll in 12 to 15 credit hours each fall and spring semester of enrollment and plan to take some classes in the summer or mini-mesters to complete the degree in two years.

Physical education activity courses and other one-hour courses may be added to the normal course load. However, no student will be permitted to enroll in six academic courses without the permission of the Vice President of Academic Affairs. The usual maximum load for each fall and spring 15-week term is 15 credit hours. The usual maximum load in a 5.5-week summer session is seven six credit hours. Students who wish to exceed the usual academic load for a term must obtain permission from the Vice President of Academic Affairs. Also, students simultaneously enrolled in Angelina College and another college or university may not exceed the maximum allowable credit hour load without written permission from the Vice President of Academic Affairs.

### Numbering of Courses

All college courses are assigned a four-digit number, which gives the rank and semester hour value as follows:

1. The first digit gives the rank of the course. Courses beginning with a "0" are considered developmental, courses beginning with the number "1" are freshman level, and courses beginning with the number "2" are generally sophomore level;
2. The second digit signifies the semester hour value of the course; and
3. The third and fourth digits distinguish the course from other courses in the same department or field of study.

A three-digit section number on the online course schedule follows the course number.

## Texas Success Initiative

The purpose of the Texas Success Initiative (TSI) program is to guide Angelina College in determining whether entering, non-exempt students are ready for entry-level college coursework in the areas of reading, writing, and mathematics through the administration of the Texas Success Initiative Assessment 2.0 (TSIA2). Students who do not meet one or more of the established benchmarks of the TSIA2, or an approved exemption, must participate in developmental education support before or together with enrollment in college-level coursework. Developmental supports such as co-requisite and non-course competency-based options help students meet their academic and career goals. The Angelina College Testing Center, located on the second floor of the Library, can provide additional information about TSI and TSIA.

More information, including a list of exemptions, can be found in the [Texas Administrative Code Rule §4.54](#) and the [Texas Higher Education Coordinating Board's TSI page](#).

## Alternative Credit Options

A student who has attained college-level proficiency in high school, by independent study, or through other means can earn credit for college courses, provided they meet the minimum AC requirements. Angelina College offers the following alternative credit options: (a) departmental examinations, (b) The College Board Advanced Placement, (c) the International Baccalaureate Diploma, (d) Course Bypass – Spanish, and (e) College Level Examination Programs (CLEP). Students may contact the [Office of the Registrar](#) at [registrar@angelina.edu](mailto:registrar@angelina.edu) for more information about alternative credit.

### Alternative Credit Regulations

1. Alternative Credit is open to currently enrolled students at Angelina College.
2. Students may earn a maximum of 24 credit hours through Alternative Credit.
3. Students must meet minimum score requirements of a “B” or better to receive credit on departmental exams, “3” and above on AP exams, “4” and above on IBD, and “50” or above on CLEP Subject Exams.
4. Credits are posted on the official transcript upon completing the alternative credit process.
5. Students may attempt Angelina College departmental exams only once in any given course. Students may repeat the College Board Advanced Placement on any scheduled test date and retake the CLEP every six months.
6. The College will not award Alternative Credit for a course in which a student has been enrolled after the official census day, has audited, or has completed.

### Alternative Credit Procedures and Fees

1. The student must submit Alternative Credit score reports to the Registrar for interpretation and processing (i.e., AP, CLEP, IBD).
2. The Registrar will post credit on the official transcript.
3. Departmental examination fees are listed on the [Tuition and Fees webpage](#). Fees are payable to Angelina College, and must be submitted to the Business Office along with the Credit by Experience/Exam form two weeks before the exam date.
4. Upon receiving grades or score reports, the Registrar will forward the student an email notification of the credit earned.

## Departmental Examinations

Within the School of Business and Technology, students may earn credit for certain courses by interviewing with a designated faculty member and demonstrating required knowledge, skills, or both through performance on a challenge examination developed by AC instructors. Interested students should contact the School of Business and Technology.

## The College Board Advanced Placement (AP)

The College Board Advanced Placement (AP) Examinations are not offered on the Angelina College campus; however, the college accepts some AP Examinations for granting credit at Angelina College. Table E presents the AC course numbers, the corresponding number of AC credit hours, and the minimum AP test score for each AP test subject. Student grade reports containing scores of “3” or above must be submitted to the Angelina College Registrar. The AP Examinations are offered once a year in May, usually in high schools that offer college-level courses based on AP course descriptions. Each high school that gives the examinations sets its registration deadline (no later than March) and collects fees. The College Board mails reports of AP Examination results in mid-July to institutions listed as recipients by students. The College Board code for Angelina College is **6025**. The AP Examinations test students over subject matter outlined in the AP course descriptions prepared by the College Board. The descriptions, which include sample questions, are available from some high school counselors and the Advanced Placement Program website at <http://apcentral.collegeboard.com/home>. If no high school in the vicinity is administering AP examinations, interested students should contact AP Services for information by February 1 each year.

AP Test Subject	AC Course Number	Minimum Score	Credit Hours
Art History	ARTS 1303&1304	3	6
Biology	BIOL 1408 & 1409	3	8
Calculus AB	MATH 2413	3	4
Calculus BC	MATH 2413&2414	3	8
Chemistry	CHEM 1411 & 1412	3	8
Computer Sci-A	COSC 1336	3	3
Computer Science Principles	COSC 1315	3	3
Engl. Lang./Comp	ENGL 1301	3	3
Engl. Lit./Comp	ENGL 1302	3	3
Government & Politics, US	GOVT 2305	3	3
History, United States	HIST 1301 & 1302	3	6
History, European	HIST 2311 & 2312	3	6
Human Geography	GEOG 1301	3	3
Principles of Macroeconomics	ECON 2301	3	3
Principles of Microeconomics	ECON 2302	3	3
Music Theory	MUSI 1311&1312	3	6
Physics C-Mechanics	PHYS 1401	3	4
Physics C-Elec. & Magn	PHYS 1402	3	4



Physics 1: Algebra-Based	PHYS 1305 & 1105	3	4
Physics 2: Algebra-Based	PHYS 1305 & 1105	3	4
Psychology	PSYC 2301	3	3
Spanish Language & Culture	SPAN 1411 & 1412	3	8
Spanish Language & Culture	SPAN 1411, 1412 & 2311	4 & Above	11
Statistics	MATH 1342	3	3
Studio Art – 2-D Design	ARTS 1311	3	3
Studio Art - 3-D Design	ARTS 2343	3	3
Studio Art – Drawing	ARTS 1316	3	3

### The International Baccalaureate Program

Entering freshmen students who graduate with the International Baccalaureate Diploma (IBD) can receive college credit of at least 24 hours based on the completion of IB standard or higher-level courses with a score of 4 or higher. If a score of less than four 4 on an IBD exam is documented, fewer than 24 SCH will be granted. The student must submit an official transcript of grades to the Office of the Registrar for evaluation. The College will post IBD credit hours on the official transcript. Table F presents an equivalency chart for the IB program.

<b>Table D International Baccalaureate Program Equivalency Chart</b>				
<b>COURSE(S)</b>	<b>SL SCORE</b>	<b>HL SCORE</b>	<b>AC COURSE</b>	<b>CREDIT HOUR(S)</b>
Art (visual)	5	4	ARTS 1301	3
Biology	4		BIOL 1408	4
Business Management	5	4	BUSI 1301	3
Chemistry		6	CHEM 1411 & 1412	8
Chemistry	6		CHEM 1305 & 1105, 1307 & 1107	8
Computer Science	5	4	COSC 1315	3
Economics	5	4	ECON 2301 & 2302	6
English A1	5	4	ENGL 1301 & 1302	6
		5+	ENGL 1301, 1302 & select 2 from: ENGL 2307, 2326, or 2341	12
Geography	5	4	GEOG 1303	
History	5	4	HIST 100 LEVEL	3
		5+	HIST 1301 & 1302	6
Mathematics	3		MATH 1332	3
		4	MATH 2413	4
	3		MATH 1324	3
	3		MATH 2412	3
Music	5	4	MUSI 1306	3
Physics	5	4	PHYS 1305 & 1105	4
Psychology	5	4	PSYC 2301	3

Theatre Arts	5	4	DRAM 1310	3
--------------	---	---	-----------	---

### Course Bypass

Students may earn bypass credit for certain Spanish courses. Students who have completed coursework in Spanish with a grade of “B” or better at an accredited high school may earn up to eight credit hours per the following eligibility requirements. Course bypass fees are nonrefundable.

### Credit Bypass Requirements:

1. Students who have completed one year of high school Spanish with a grade of “B” or better may enroll in Spanish 1412 and bypass Spanish 1411. The College will grant four credit hours for Spanish 1411 if the student earns a “C” or better in Spanish 1412.
2. Students who have completed two years of high school Spanish with an average grade of “B” or better may enroll in Spanish 2311 and bypass Spanish 1411 and 1412. The College will grant eight hours of credit for Spanish 1411 and 1412 if the student earns a grade of “C” or better in Spanish 2311.
3. In both of the above cases, the student must apply for the bypass credit through the Office of the Registrar by completing a Credit Bypass application (available in the [AC Student Portal](#)) and paying the required fee listed on the [Tuition and Fees page](#).

### College-Level Examination Program® (CLEP)

The CLEP Subject Examinations measure achievement in specific subject areas acquired through independent study, correspondence work, and career experiences. These exams require college-level knowledge and critical thinking ability. Angelina College is an official testing center for CLEP Subject Examinations. Subject exams with scores of 50 or higher are equivalent to Angelina College courses. To register for CLEP, use the College Board’s website (<https://clep.collegeboard.org/clep-test-center-search>). Table G lists CLEP subject exams and minimum scores aligned with AC courses and credit hours.

**Table E**

**CLEP Subject Exams and Minimum Scores with AC Courses and Credit Hours**

CLEP Subject Exam	AC Course(s)	Min. Score	Credit Hours
<b>ARTS AND EDUCATION</b>			
College Composition	ENGL 1301	50	3
College Composition Modular	ENGL 1302	50	3
American Literature	ENGL 2327 or ENGL 2328	50	3
Analyzing & Interpreting Literature	ENGL 1302	50	3
English Literature	ENGL 2322 or ENGL 2323	50	3
American Government	GOVT 2305	50	3
US History I: Pre-Columbian to 1865	HIST 1301	50	3
US History II: 1865 to Present	HIST 1302	50	3
Western Civilization I: Ancient Near East to 1648	HIST 2311	50	3
Western Civilization II: 1648 to the Present	HIST 2312	50	3
Psychology, Introductory	PSYC 2301	50	3
Human Growth and Development	PSYC 2314	50	3

Sociology, Introductory	SOCI 1301	50	3
Spanish Language	SPAN 1411 & 1412	50-62	8
Spanish Language	SPAN 1411, 1412, 2311 & 2312	63<	14

#### **BUSINESS AND TECHNOLOGY**

Principles of Financial Accounting	ACCT 2301	50	3
Introductory Business Law	BUSI 2301	50	3
Principles of Macroeconomics	ECON 2301	50	3
Principles of Microeconomics	ECON 2302	50	3
Principles of Management	BMGT 1327	50	3
Principles of Marketing	MRKG 1311	50	3

#### **SCIENCE AND MATHEMATICS**

College Algebra	MATH 1314	50	3
College Mathematics	MATH 1322	50	3
Pre-Calculus	MATH 2412	50	4
Calculus	MATH 2413	50	4

#### **Credit for Military Courses**

Angelina College will evaluate courses completed through the Defense Activity for Nontraditional Education Support (DANTES) system based on the credit recommendation in the American Council on Education *Guide to Evaluation of Educational Experiences in the Armed Services*. Angelina College may grant eligible veterans physical activity credit based on basic training. Credit hours granted in this manner and those granted for other alternative credit options together may total up to 24. Students enrolled at AC wishing to have their educational experience through the DANTES (Joint Services Transcript, JST) transcript evaluated for possible credit should follow the following procedure.

Procedure to Request Credit for Military Courses:

1. The student should submit records showing completion of educational experiences in DANTES courses, which include the following: educational transcripts, discharge papers, and test scores. The student is responsible for furnishing satisfactory evidence to the [Office of the Registrar](#).
2. The [Office of the Registrar](#) references the submitted documents for credit recommendation from the American Council of Education *Guide to Evaluation of Educational Experience in the Armed Services*.
3. The appropriate AC academic administrator will grant or deny credit for a specific corresponding AC course. Credit will appear on the student's transcripts.

### **Course Schedule Changes**

Students may only make schedule changes during the established add/drop period. After the first day of class, students must contact the Office of Academic Success to request changes to the courses they are enrolled in.

#### **Dropping a Course**

A student must complete the necessary form in the Office of Academic Success to officially drop a course.

Ceasing to attend class meetings does not constitute formal withdrawal from the course, and failure to withdraw properly may result in a failing grade. A student who drops a course on or before the twelfth class day during the fall or spring semester or on or before the fourth class day during a summer semester will not receive a grade, and the course will not appear on the permanent record. A student dropping or withdrawing after the above dates will receive a W grade. Refer to the college calendar in the catalog or on the College's website for the last day to drop a course.

### **Withdrawal from College**

All necessary forms to completely withdraw from a term/semester can be obtained in the Office of Academic Success. Students are only considered to be withdrawn officially once these forms are completed. A written request is required to withdraw from classes. The request may be made in person at the Office of Academic Success or by fax, email, or mail. Refer to the college calendar for the last day in the semester to drop a course. For flex courses and other courses with unusual lengths, contact the Office of Academic Success for the last day to withdraw.

### **STOP – Don't Drop**

According to Texas Education Code § 51.907, Angelina College may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education. This statute applies to students who enroll in a public institution of higher education as first-time freshmen in fall 2007 or later. Any course that a student drops is counted toward the six-course limit if “(1) the student was able to drop the course without receiving a grade or incurring an academic penalty, (2) the student's transcript indicates or will indicate that the student was enrolled in the course, and (3) the student is not dropping the course to withdraw from the institution” (Texas Education Code § 51.907(b)). Some exemptions for good cause could allow a student to drop a course without having it counted toward this limit, but it is the student's responsibility to establish that good cause with the appropriate College officer. Contact the Office of Academic Success in the Student Center for more information before you drop a course.

### **Auditing a Course**

Any student who is 18 years or older may audit a course by completing the online form in the AC Student Portal before the official census date or by contacting the Office of the Registrar. See the College calendar for census date information. The auditing student may then attend class sessions but is generally not required to take examinations and is not entitled to earn credit for the audited course. The tuition and fees for auditing a course are the same as those for credit enrollment. Courses cannot be changed to credit once they have been audited.

### **System for Grading**

After each semester, instructors prepare final grades and submit them to the Office of the Registrar. The Office of the Registrar records the grades on each student's permanent record. Once the College records the grades on students' permanent records, the grades are available to students through each student's AC Portal. Students should refer to [College Regulation EGA](#) for full grading procedures.

The instructor may assign any of the grades included in *Table H*.

**Table F**

**Grades Available for Assignment by Instructors**

Letter Grade	Grade Points per Semester Hour	Corresponding Performance or Description
A	4.0	Excellent
B	3.0	Good
C	2.0	Average
D	1.0	Minimum Passing
F	0.0	Failing
I		Incomplete
IP	0.0	In Progress (developmental education only)
P/F		Pass or Fail (not calculated in GPA)
W		Withdrew after the census date and before the last day to withdraw
AU		Audit

**Grade Points**

Grade points are allocated for all courses, except for developmental courses, based on the value in semester credit hours for the course and the grade earned as follows (See Table H):

- A 4 grade points per semester hour
- B 3 grade points per semester hour
- C 2 grade points per semester hour
- D 1 grade points per semester hour
- F 0 grade points
- IP 0 grade points

**How to Calculate Your Grade Point Average (GPA)**

**Step One:** Add the total number of credit hours you have attempted. For example, if you took the following courses, the total credit hours would be nine:

<u>Attempted Courses</u>	<u>Credit Hours</u>
ENGL 1301	3 credit hours
HIST 1301	3 credit hours
SOCI 1301	3 credit hours

---

Total                      3+3+3 = **9 credit hours**

**Step Two:** Multiply the number of hours (“9 credit hours” in the example) by the grade value using the values provided in Table H.

<u>Attempted Courses</u>	<u>Credit Hours</u>	<u>Grade Earned</u>	<u>Grade Value</u>	<u>Grade Points</u>
ENGL 1301	3 credit hours	A	4	4 x 3 = <b>12</b>
HIST 1301	3 credit hours	B	3	3 x 3 = <b>9</b>
SOCI 1301	3 credit hours	F	0	3 x 0 = <b>0</b>
Total	3+3+3 = <b>9 credit hours</b>			12+9+0 = <b>21</b>

**Step Three:** Divide the total of the grade points by the total credit hours attempted to get your grade point average. In the example,  $21 \div 9 = 2.33$ ; therefore, **2.33** is the grade point average earned in the example.

### Grade Appeal Process

When a student believes a grade does not reflect their level of accomplishment in a course, the student should follow the process outlined in [College Regulation EGA](#).

### Academic Honors and Recognition

#### President’s List

To qualify for the President’s List the student must have been enrolled in at least 12 semester hours of college-level work and have attained a 4.0 grade point average. The names of students who make the President’s List are posted at the end of each fall and spring semester.

#### Dean’s List

To qualify for the Dean’s List, a student must have been enrolled in at least 12 semester hours of college-level work and have attained a grade point average of 3.5 with no grade lower than a “C.” The President’s List is posted at the end of each fall and spring semester.

### Common Course Numbering System

Angelina College participates in the Texas Common Course Numbering System. The purpose of the system is to assist students in transferring between participating institutions. The system utilizes four-letter prefixes and four-digit numbers to identify courses specified in the system (see the Numbering of Courses section of this catalog). The common freshman and sophomore courses are identified in the first digit of “1” or “2”.

### Articulation Between Angelina College and Certain University Programs

Angelina College negotiates articulation agreements with four-year higher education institutions to facilitate the transfer of AC credits toward a bachelor’s degree at the four-year institution. Interested students should consult with the Office of Academic Success or visit [www.angelina.edu/transfer](http://www.angelina.edu/transfer) to learn about specific articulation agreements.

## **Resolution of Disputes Concerning Transfer of Lower-Division Courses**

The transfer curricula shall be as prescribed by the Texas Administrative Code § 4.27.

1. The following procedures shall be followed by public institutions of higher education in the resolution of credit transfer curricula and transfer of credit:
  - If an institution of higher education does not accept course credit earned by a student at another institution of higher education, the receiving institution shall give written notice to the student and the sending institution that the transfer of the course credit is denied;
  - The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Texas Higher Education Coordinating Board rules and guidelines;
  - If the transfer dispute is not resolved to the satisfaction of the student or of the sending institution within 45 days after the student receives written notice of the denial, the institution whose credit is denied for transfer shall notify the Commissioner of Higher Education of its denial.
2. The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institution.

## **Tuition Rebate for Certain Undergraduates**

Texas Education Code § 54.0065 requires Angelina College to inform students of a specific tuition rebate program available in Texas. The Texas law authorizes a tuition rebate of up to \$1,000 for certain baccalaureate degree recipients. To be eligible for a rebate under this program, students must meet all of the following requirements:

1. They must have enrolled for the first time in an institution of higher education in the Fall of 1997 semester or later;
2. They must request a rebate for work related to a first baccalaureate degree from a Texas public university;
3. They must have been a resident of Texas, must have attempted all coursework at a Texas public institution of higher education, and have been entitled to pay resident tuition at all times while pursuing the degree; and
4. They must have attempted no more than three hours above the minimum semester credit hours required to complete the degree from the catalog under which they graduated. Hours attempted include transfer credit, course credit earned exclusively by examination, courses dropped after the official census date, developmental courses taken for credit, optional internship and cooperative education courses, and repeated courses. Courses dropped for reasons the institution determines to be beyond the student's control shall not be counted.

## **Transfer Limitations**

Students transferring to Texas public universities may find that not all lower-division courses are accepted for a bachelor's degree. The number of accepted freshman and sophomore semester credit hours may range from 60 to 66. However, some universities may accept more credit hours in special cases. Angelina College wants students to reach their educational goals, and the Office of Academic Success can assist students in making appropriate decisions about courses to take at AC. Students may contact the Office of Academic Success on the second floor of the Student Center or at (936) 633-5212 for assistance.

## **Texas Direct**

Texas Direct is a state initiative designed to streamline pathways for students to transfer from a two-year institution to a four-year institution. A field of study encompasses lower-division courses that transfer and apply to a degree program. More about the Texas Direct program and Fields of Study can be found on the [Texas Direct information page](#).

### **Academic Fresh Start**

Texas residents may apply for admission under the *Academic Fresh Start Program*. Texas Education Code § 51.931 entitles residents of Texas to seek admission to public institutions of higher education without consideration of courses taken ten or more years before enrollment. This legislation has been called the “right to an academic fresh start.” An applicant who elects to apply under this section and is admitted as a student may not receive any course credit for courses undertaken 10 or more years before enrollment under this section. Students needing additional information should contact the Office of the Registrar.

## **ACADEMIC REQUIREMENTS**

### **Attendance Requirement**

Students are expected to maintain regular and punctual attendance. Each instructor will maintain a complete attendance record for the entire course length as outlined in [College Regulation FBD](#).

### **Copyright Compliance Requirement**

The College expects all Angelina College faculty, staff, and students to act as responsible users of the copyrighted works of others, which includes making informed decisions based on the fair use exemptions to the copyright laws and [Local Policy EDD](#).

### **Grade Point Average Requirement**

All students must maintain a minimum cumulative grade point average according to the schedule presented in *Table I*.

---

**Table G**

**Minimum Acceptable Grade Point Average per Credit Hours Attempted**

<b>Credit Hours Attempted</b>	<b>Minimum Acceptable GPA</b>
1 to 20 hours	1.50 GPA
21 to 30 hours	1.75 GPA
31 hours and above	2.00 GPA

*Reminder: A cumulative minimum GPA of 2.00 is required for graduation.*



### **Academic Referral**

A student who earns less than a 2.00 GPA in any term must seek academic counseling before registering for the following term. This referral aims to assist students who experience academic problems in their respective program areas.

### **Academic Probation**

Failure to maintain a cumulative grade point average according to the schedule presented in Table I will result in the College placing the student on academic probation for the following semester. The college will evaluate each transfer student's previous coursework according to the schedule presented in Table I. A transfer student whose cumulative grade point average does not meet the minimum requirements of the schedule presented in Table I will be admitted on academic probation unless they were officially suspended from a previous college. If the College suspends a prospective student from a previous college, Angelina College will require that student to wait one Fall Semester or Spring Semester before enrolling at AC.

### **Removal of Academic Probation**

A student whom the College places on academic probation must earn sufficient grade points in the following semester to raise their cumulative GPA to the minimum required for the number of hours attempted. A student who earns at least a 2.00 GPA for the probationary term but has not increased the cumulative GPA to the required level for the number of hours earned will have their probation continued.

Students placed on probation will be notified and required to seek academic counseling before registering for the probationary term. The purpose of such counseling is to ensure that the student registers for an appropriate course load and type of coursework to assist the student in removing the condition of probation.

### **Academic Suspension**

A student on Academic Probation who fails to (a) earn at least a 2.00 GPA in the first semester of probation or (b) meet SAP requirements by the end of the second semester of probation will be placed on Academic Suspension for one fall semester or spring semester. A student placed on academic suspension at the end of a semester will not be allowed to register for classes until their suspension period has ended. Students placed on suspension at the end of the fall semester cannot enroll again until the following summer semester; students placed on suspension at the end of the spring semester cannot enroll again until the following spring semester; students placed on suspension at the end of a summer semester cannot enroll again until the following spring semester.

The College does have a provision for consideration of students on suspension to enroll before their suspension period has elapsed. This provision applies to students suspended from Angelina College. Students should see the Office of the Registrar for information about this provision. Falsification of any admission documents concerning suspension will result in dismissal and forfeiture of fees.

### **Appeal of Academic Suspension**

An Angelina College student who wishes to be considered for re-enrollment before their suspension period has elapsed must file a petition letter with the Academic Appeals Committee. Upon receipt of this letter, the committee will give the student an appointment to appear before the appeals committee to state their case. This committee meets once each semester to hear appeals for extenuating conditions. The petition letter must explain any special or unusual circumstances that caused the student to be suspended other than simply failing to maintain grades.

After reviewing the appeal and the student's record and taking additional testimony as required, the appeals committee will decide on re-enrollment. The appeals committee may recommend or require a student to undergo testing or counseling or may require enrollment in any number and type of appropriate courses. The Committee may also deny re-enrollment, in which case the student must serve the suspension period before re-enrollment. The term the student is allowed to re-enroll is considered a probationary semester with the same rules stated under "Academic Status" for cumulative GPA and "Academic Probation." The student must use this probationary term to attempt to remove the condition of suspension. No student will be considered more than once during their college career for re-enrollment while in a suspension period.

## **Graduation Requirements**

A student may choose to meet the degree or certificate requirements in the current catalog at the time of first admission or in any subsequent catalog published before the date of graduation as long as the student meets the degree requirements no later than three years from the date of the published catalog. The College confers degrees each academic year in December, May, and August.

The College will confer an associate's degree upon a student if they file an application for the degree online in the AC Student Portal by the deadline printed in the college calendar. The College may also confer a degree for which the student did not apply if the student has met the eligibility requirements below.

Eligibility to receive an associate's degree requires that the student must have:

1. earned a minimum of sixty credit hours, including no more than two credit hours of physical activity;
2. a cumulative grade point average of 2.00 or above in all attempted coursework;
3. earned a minimum of 25% of credit hours at Angelina College; and
4. completed a program of study with freshman and sophomore courses as listed in the catalog or completed a modified catalog program as approved by the appropriate Academic Affairs administrator.

### **Graduation versus Commencement Ceremony**

The term "graduation" refers to the administrative action of conferring a degree or certificate upon a student who has met or exceeded all academic program requirements. Students commonly refer to the annual commencement ceremony as "graduation;" however, participation in the commencement ceremony does not ensure the conferment of a degree or certificate.

### **Certificate of Completion Requirements**

To fulfill the requirements for a certificate of completion, a student must apply for the certificate online in the AC Student Portal by the deadline in the college calendar. The college may also confer certificates of completion for which the student did not apply if the student has met the eligibility requirements below.

Eligibility to receive a Certificate of Completion requires that the student has:

1. earned at least 15 credit hours, including no more than two credit hours of physical activity (note: eligible veterans may be granted physical activity credit based on active military service in the Armed Forces);

2. completed courses outlined in the program of study for the certificate;
3. a cumulative 2.00 grade point average in all attempted coursework; and
4. earned a minimum of 25% of credit hours at Angelina College.

### **Reverse Transfer**

Under [Texas Education Code § 61.833 \(d\)](#), Angelina College may use student data from the National Student Clearinghouse to determine if a former AC student, who earned at least 30 credits at AC, has earned the credits required to receive an associate degree from a Texas four-year institution. If AC determines that a student has earned the required credit, AC may award the appropriate associate degree. If students or former students have questions about Reverse Transfer, they should contact the Office of Academic Success at 936-633-5212.

### **Second Associate Degree Requirements (Multiple Degrees)**

The College may confer a second associate degree if a student successfully completes all courses required in the degree plan for the second degree. Students must consult the Academic Affairs administrator in the school they wish to pursue a second degree. The student must earn at least 15 credit hours of work at Angelina College in addition to those hours applied to the previous degree. Where course requirements among degrees are so similar that fewer than 15 semester credit hours would be necessary to complete the second degree, electives applicable to the degree should be substituted with the approval of the Academic Affairs administrator of the school.

## **STUDENT ACADEMIC RECORDS**

The Office of Admissions and Records, in the Student Center, maintains student admissions records. The Office of the Registrar stores instructor grade books and permanent student records.

### **Short-Term Use and Long-Term Use Records**

The State of Texas Retention Schedule for Records of Public Junior Colleges allows the classification of short-term and long-term use (permanent) records. Term of enrollment is the term in which the record is received. These records include, but are not limited to, the following: admissions applications, data changes, transcripts from other schools, proof of residency, and instructor grade books. The permanent records maintained by the Office of Admissions and Records and Office of the Registrar are Angelina College (AC) transcripts, AC catalogs, AC commencement programs, and AC schedule of classes. To review the records Schedule, see the Texas State Library and Archives Commission website at <https://www.tsl.texas.gov/slr/recordspubs/jc.html>.

### **Release of Student Information**

The college policy addressing the release of student information is based on the [Family Educational Rights and Privacy Act of 1974 \(FERPA\)](#) and [Local Policy FJ](#).

### **Directory Information**

Per the Family Education Rights and Privacy Act (FERPA), information classified as "Directory Information" may be released to the general public without the student's consent. Angelina College may, at its discretion, release directory information which shall include:

- Name, address, telephone number
- Major / Field of Study
- Dates of attendance
- Classification
- Degrees, honors, and awards received
- Date of graduation
- Participation in officially recognized activities and sports
- Photographs of staged and everyday campus activities

### **Non-Disclosure of Directory Information**

Students may, at any time, request that all directory information be withheld by completing a non-disclosure form, located in the [student portal](#). This form is transmitted to the Office of the Registrar. Once a student requests non-disclosure, the College will withhold all directory information. A student can, at any time, change their status to allow for disclosure of directory information by submitting an official request form in the student portal. For more information, contact the Office of the Registrar at (936) 633-5211 or [registrar@angelina.edu](mailto:registrar@angelina.edu).

### **Review of Records Appeal**

The Office of the Registrar maintains all students' permanent records (transcripts). Any student with a question concerning the accuracy of their transcript must submit a written request to the Office of the Registrar within one calendar year from when the grade was assigned. The Registrar will make every effort to determine if the grade entered on the transcript is correct based on college files, including the instructor's grade book. The Review of Records Appeal process is intended to correct clerical errors on a student's transcript. The determination by the Registrar on a review of records grade appeal is final. Please note that students who wish to appeal the grade assigned by an instructor must use the grade appeal process within the timeframe established by that process (see "Grade Appeal Process" section of this catalog).

## **STUDENT RIGHTS AND RESPONSIBILITIES**

### **Notice of Nondiscrimination**

Angelina College provides education and employment opportunities without discrimination on the basis of race, color, religion, national origin, sex, disability, age, sexual orientation, gender identity or gender expression. Angelina College complies with the Americans with Disabilities and Veterans Act. Inquiries and complaints of violation of Title VI (race, color, religion or national origin), Title IX (sex), Section 504 (disability), the Americans with Disabilities Act (disability), the Americans with Disabilities Act Title II (public accommodation), or the Age Discrimination in Employment Act should be directed to:

Tifini Whiddon, Senior Director of Human Resources  
3500 South First, Lufkin, TX 75901  
936-633-4511  
[twhiddon@angelina.edu](mailto:twhiddon@angelina.edu)

Requests for accommodation of a disability should be directed to the [Office of Student Disability Services](#).

### **Title IX**

Title IX of the Education Amendments of 1972, 20 USC § 1681 et seq., protects individuals from discrimination and harassment based on sex in any educational program or activity operated by recipients of federal financial assistance. Sexual harassment, including sexual violence, is a form of sex discrimination and is therefore prohibited under Title IX. Unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal, or physical conduct of a sexual nature constitute sexual harassment when this conduct is so severe, persistent, or pervasive that it explicitly or implicitly affects an individual's employment, unreasonably interferes with an individual's work or educational performance, or creates an intimidating or hostile work or educational environment.

Angelina College is committed to providing an environment of academic study and employment free from harassment or discrimination to all segments of its community: its faculty, staff, students, guests, and vendors, and will promptly address all complaints of discrimination, sexual harassment, and related retaliation per applicable federal and state laws.

To report a violation of Title IX or ask questions regarding Title IX, contact the Title IX Coordinator:

Tifini Whiddon, Senior Director of Human Resources

3500 South First, Lufkin, TX 75901

936-633-4511

[twhiddon@angelina.edu](mailto:twhiddon@angelina.edu)

Students may also contact the US Department of Education, Office for Civil Rights (800-421-3481) to complain of sex discrimination or sexual harassment, including sexual violence.

### **Title IX Grievance Procedure**

The College is committed to prompt and equitable resolution of student complaints of sexual discrimination, including sexual violence, by fellow students through the Discipline Program Procedure. Students may file a Title IX complaint using the complaint form in the AC Portal. The procedure for filing a complaint is outlined in [Local Policy FLB](#).

## **Student Conduct and Discipline Program**

The Student Conduct and Discipline Program at Angelina College provides an educational and developmental response to student misconduct while maintaining and protecting a safe and appropriate teaching and learning environment. The Office of Academic Affairs is responsible for the administration of the conduct and discipline program. Students should refer to [Local Policy FLB](#) for full information regarding the policy and discipline procedures.

## **Graduate Guarantee Program**

The Graduate Guarantee Program is available to students enrolled in an Associate of Arts, an Associate of Science, or an Associate of Applied Science degree plan. Through the Graduate Guarantee Program, Angelina College guarantees to its Associate of Arts and Associate of Science graduates and to students who have met the requirements of a 60-credit-hour transfer plan, the transferability of course credits to those Texas colleges or universities that cooperate in the development of Equivalency/Degree Plan

Guides. If the college or university rejects such courses, the student will be offered tuition-free alternative courses that the college or university accepts.

Special conditions that apply to the guarantee are as follows:

1. Transferability means the acceptance of credits toward a specific major or degree. Courses must be identified by the receiving university as transferable and applicable in The Equivalency/Degree Plan 1991-92 or later;
2. The catalog of the receiving institution states the total number of credits accepted in transfer, grades required, relevant grade point average, duration of transferability; and
3. The guarantee applies to courses included in a written transfer plan, which includes the institution to which the student will transfer, the baccalaureate major and degree sought, and the date such a decision was made, which must be completed with the advisors.

### **Guarantee of Job Competency**

If an Angelina College (AC) graduate who has earned an Associate of Applied Science (AAS) degree is judged by their employer to be lacking job skills as exit competencies for their specific degree program, AC will provide the graduate up to nine tuition-free credit hours of additional skill training by the College under the conditions of the guarantee conditions.

Conditions of the guarantee program are as follows:

1. The graduate must have earned the AAS degree beginning May 1992 or thereafter in an occupational program identified in the Angelina College catalog;
2. The graduate must have completed the AAS degree at Angelina College, with a majority of the credits earned at AC, and must have completed the degree within a five-year timespan;
3. Graduates must be employed full-time in an area directly related to the area of program concentration as certified by the respective Academic Affairs administrator;
4. Employment must commence within 12 months of graduation;
5. The employer must certify in writing that the employee lacks entry-level skills identified by the college as competencies included in the degree plan and must specify the areas of deficiency within 90 days of the graduate's initial employment;
6. The employer, graduate, dean, program coordinator or associate dean of instruction, and appropriate faculty member will develop a written educational plan for retraining;
7. Retraining will be limited to nine credit hours related to the identified skill deficiency and to those classes regularly scheduled during the period covered by the retraining plan;
8. All retraining must be completed within a calendar year from the time the educational plan is agreed upon;
9. The graduate, employer, or both are responsible for the cost of books, insurance, uniforms, fees, and other course-related expenses; and
10. The guarantee does not imply that the graduate will pass any licensing or qualifying examination for a particular career.

### **DEGREES AND CERTIFICATES**

Associate degrees consist of two-year courses of study and at least 60 credit hours. The acceptability of work completed at Angelina College to meet the requirements of a degree at another institution is determined by that institution and not by Angelina College. The college does, however, have articulation

agreements with other institutions and participates in the Texas Common Course Numbering System to ensure the transferability of courses.

## **Types of Degrees and Certificates at Angelina College**

Angelina College offers a variety of degree and certificate programs. Each student should select an academic program or programs based on the student's career plan and intentions for additional postsecondary education. The Student Success Coaches in the Office of Academic Success are available to help students select a program of study. The following are the types of degrees and certificates available at Angelina College.

- The Associate of Arts (AA): An award that normally requires at least 60 credit hours of college work in a grouping of courses designed to lead to transfer to an upper-level baccalaureate program (See Table J for Core Curriculum requirements).
- The Associate of Science (AS): An award that normally requires at least 60 credit hours of college work in a grouping of courses designed to lead to transfer to an upper-level baccalaureate program (See Table J for Core Curriculum requirements).
- The Associate of Arts in Teaching (AAT): A degree designed to provide a broad, general background of coursework for the first two years of study toward a Bachelor's degree for prospective school teachers (See Table J for Core Curriculum requirements).
- The Associate of Applied Science (AAS): A two-year applied associate degree program designed to lead the recipient to immediate employment, career advancement, or both. Each AAS program is designed to meet specific occupational competencies and outcomes. The college offers AAS degrees in the School of Business and Technology, the School of Arts and Education, and the School of Health Careers. Each AAS program will include technical courses (at least 45 credit hours) and core curriculum courses (15 credit hours - see Table J) to prepare students for employment as technicians or professionals. Specific credit hour requirements and required courses vary among the various AAS programs. Students should meet with a Student Success Coach in the Office of Academic Success or a faculty member teaching in the program area the student is pursuing. Consult the appropriate Academic Affairs administrator for specific requirements for progression and graduation. Some four-year institutions have developed Bachelor of Applied Arts and Sciences degrees, and those institutions may apply technical/workforce training courses completed for an AAS degree toward the requirements of that bachelor's degree.
- Level 3 Enhanced Skills Certificate: A workforce education program of study that consists of at least six (6) and no more than twelve (12) credit hours and is associated with an AAS degree program.
- Level 2 Certificate: A workforce education program of study that consists of at least 30 and no more than 51 credit hours. Level 2 Certificates are subject to the Texas Success Initiative (TSI) requirements.
- Level 1 Certificate: A workforce education program of study that consists of at least 15 and no more than 42 credit hours. Level I certificate programs are exempt from the Texas Success Initiative (TSI) requirements, although all certificate programs must provide for local assessment and remediation of students.

## Core Curriculum Description

The purpose of the core curriculum is to ensure that Angelina College students will develop the essential knowledge and skills they need to be successful in College, a career, their communities, and life. The core curriculum facilitates the transfer of lower-division course credit among public colleges, universities, and health-related institutions. Table J presents course requirements for the Core Curriculum.

**Table H**

**Course Requirements for Core Curriculum<sup>1</sup>**

<b>State-Approved Foundational Component Areas with Credit Hours (CH)</b>	<b>Courses Approved by THECB<sup>2</sup></b>	
1. Communication (6 CH) Courses focus on developing ideas and expressing them clearly, considering the effect of the message, fostering understanding, and building the skills needed to communicate persuasively. Courses involve the command of oral, aural, written, and visual literacy skills that enable people to exchange messages appropriate to the subject, occasion, and audience.	ENGL 1301 ENGL 1302 ENGL 2311	
2. Mathematics (3 CH) Courses focus on quantitative literacy in logic, patterns, and relationships. Courses involve the understanding of key mathematical concepts and the application of appropriate quantitative tools to everyday experience.	MATH 1314 MATH 1324 MATH 1332 MATH 1342 MATH 1350	MATH 1414 MATH 2412 MATH 2413 MATH 2414
3. Life & Physical Sciences (6 CH) Courses focus on describing, explaining, and predicting natural phenomena using the scientific method. Courses involve understanding interactions among natural phenomena and the implications of scientific principles on the physical world and human experiences.	BIOL 1322 BIOL 1406 BIOL 1407 BIOL 1408 BIOL 1409 BIOL 1411 BIOL 1413 BIOL 2401 BIOL 2402 BIOL 2404 BIOL 2420	CHEM 1305 CHEM 1409 CHEM 1411 CHEM 1412 GEOL 1403 GEOL 1404 PHYS 1305 PHYS 1401 PHYS 1402 PHYS 2425 PHYS 2426



4. Language, Philosophy & Culture (3 CH) Courses focus on how ideas, values, beliefs, and other aspects of culture express and affect human experience. Courses explore ideas that foster aesthetic and intellectual creation to understand the human condition across cultures.	ENGL 2322 ENGL 2323 ENGL 2327 ENGL 2328 ENGL 2332 ENGL 2333	ENGL 2341 ENGL 2351 SPAN 2311 SPAN 2312
5. Creative Arts (3 CH) Courses focus on appreciating and analyzing creative artifacts and works of the human imagination. Courses involve the synthesis and interpretation of artistic expression and enable critical, creative, and innovative communication about works of art.	ARTS 1301 ARTS 1303 ARTS 1304 DRAM 1310 MUSI 1306	MUSI 1307 MUSI 1310
6. American History (6 CH) Courses focus on past events and ideas relative to the United States, with the option of including Texas History for a portion of this component area. Courses involve the interaction among individuals, communities, states, the nation, and the world, considering how these interactions have contributed to the development of the United States and its global role.	HIST 1301 HIST 1302	
7. Government/Political Science (6 CH) Courses focus on the Constitution of the United States and the states' constitutions, with special emphasis on Texas. Courses involve the analysis of governmental institutions, political behavior, civic engagement, and their political and philosophical foundations.	GOVT 2305 GOVT 2306	
8. Social and Behavioral Sciences (3 CH) Courses focus on applying empirical and scientific methods that contribute to the understanding of what makes us human and exploring behavior and interactions among individuals, groups, institutions, and events, examining their impact on the individual, society, and culture.	ECON 2301 ECON 2302 GEOG 1303 PSYC 2301	PSYC 2314 SOCI 1301 SOCI 1306
9. Component Area Option (6 CH)	CRIJ 1301 EDUC 1300 PSYC 1300 SPCH 1315 SPCH 1318 SPCH 1321 ARTS 1303 ARTS 1304 ENGL 1302	ENGL 2311 CHEM 1105 HIST 2311 HIST 2312 MATH 1325 PHYS 1105 Or any course listed in sections 2, 3, 4, or 8.

---

<sup>1</sup> New Core Curriculum Effective Fall 2022

<sup>2</sup> THECB: Texas Higher Education Coordinating Board

---

The core curriculum fulfills the general education requirements for associate degrees awarded by Angelina College. Each associate degree requires students to complete a minimum of 15 SCH of general

education courses in humanities/fine arts, social/behavioral sciences, and natural science/mathematics. Each general education area aligns with core curriculum courses in the following disciplines.

1. Humanities/fine arts – English, Spanish, Speech, Arts, Drama, and Music
2. Social/behavioral sciences – History, Government, Economics, Psychology, and Sociology
3. Natural science/mathematics – Mathematics, Biology, Chemistry, Geology, and Physics

## ANGELINA COLLEGE PATHWAYS

When you see this symbol throughout the catalog, there is a pathway for that program:

Angelina College's Pathways degree plans help students choose a clear path of classes to help them achieve their goals. Pathways are tools to help students stay on track and complete a program of study. Please refer to the [Pathways webpage](#) and speak with a Success Coach or advisor regarding major and core electives, course prerequisites, and TSI requirements.

“Texas Pathways is a comprehensive, statewide five-year strategy to build capacity for Texas community colleges to implement structured academic and career pathways at scale. Grounded in research and based on the American Association of Community Colleges’ Pathways Project, Texas Pathways is an integrated, system-wide approach to student success that guides students from the selection of their high school endorsement through postsecondary education to the attainment of high-quality credentials and careers with value in the labor market. Through Texas Pathways, colleges clarify paths to student end goals, help students choose and enter a pathway, help students stay on their pathway, and ensure students are learning.” <https://tacc.org/tsc/texas-pathways>.

See specific pathways offered by Angelina College by visiting <https://www.angelina.edu/pathways/>.



## SCHOOL OF ARTS AND EDUCATION

The Associate of Arts core is designed to give students a breadth of knowledge in the liberal arts, promote critical thinking that is fundamental to higher education, and allow students to take specific courses in a particular discipline. Students working toward the Associate of Arts degree will take essential core requirements that will allow them to transfer to a four-year institution.

Angelina College offers the Associate of Arts degree to students who complete the general graduation requirements for all degrees, which includes the Associate in Arts degree core requirements and those courses required for the specific academic area.

- **General Studies**
- **Graphic Arts (Design and Applied Arts)**
- **Health & Physical Education**
- **Music**
- **Teaching**
- **Theater**
- **Visual Arts**

# GENERAL STUDIES

## *Associate of Arts in General Studies*

The General Studies degree is designed for students who plan to transfer to another institution to pursue a bachelor's degree. Students working toward the Associate of Arts degree will complete essential core requirements and electives based on their major emphasis.

### **Program Learning Outcomes (PLOs)**

After completing an AA in General Studies degree, students will be able to:

PLO 1: Engage in innovative thinking and inquiry.

PLO 2: Effectively develop and explain ideas through written communication.

PLO 3: Synthesize, analyze, evaluate, and interpret primary and secondary sources of information for use in research-based essays and projects.

PLO 4: Manipulate, analyze, and derive logical conclusions from observable and numerical data

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
Courses	PLO 1	PLO 2	PLO 3	PLO 4
ENGL 1301 and 1302		X	X	
GOVT 2305 and 2306	X		X	
HIST 1301 and 1302		X	X	
PSYC 2301 and 2314, SOCI 1301 and 1306	X			
MATH 1314, 1324, 1332, and 1332				X

## Recommended Course Sequence:

<b>First Year, First Semester</b>			<b>Credit Hours</b>
ENGL	1301 <sup>+</sup>	Composition I	3
HIST	1301	US History I	3
EDUC	1300/PSYC 1300	<b>or</b>	
		STSU 0300 + SPCH 131X <b>or</b> another Component Area Option course**	3
MATH	13xx	Mathematics Core	
		Choose from MATH 1314, 1324, 1332, <b>or</b> 1342	3
XXXX	x3xx	Social and Behavioral Science Core:	
		Choose from PSYC 2301, PSYC 2314, SOCI 1301, SOCI 1306 <b>or</b> ECON 2301	3
<b>Total Hours</b>			<b>15</b>
<b>Second Semester</b>			
ENGL	1302 <sup>+</sup>	Composition II	3
HIST	1302	US History II	3
XXXX	x3xx	Major Elective***	3
XXXX	x4xx*	Life and Physical Science Core (Lecture + Lab)	
		Choose from BIOL, CHEM, GEOL, <b>or</b> PHYS	4
XXXX	13xx	Creative Arts Core:	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, <b>or</b> MUSI 1310	3
<b>Total Hours</b>			<b>16</b>
<b>Second Year, First Semester</b>			
GOVT	2305	Federal Government	3
XXXX	xxxx	Major Elective(s)***	4
XXXX	x3xx	Language, Philosophy, and Culture Core	
		Choose from ENGL 2322 <sup>+</sup> , 2323 <sup>+</sup> , 2327 <sup>+</sup> , 2328 <sup>+</sup> , 2332 <sup>+</sup> , 2333 <sup>+</sup> , 2341 <sup>+</sup> , 2351 <sup>+</sup> ; SPAN 2311, <b>or</b> 2312	3
XXXX	x4xx*	Life and Physical Sciences Core (Lecture + Lab)	
		Choose from BIOL, CHEM, GEOL, <b>or</b> PHYS	4
<b>Total Hours</b>			<b>14</b>
<b>Second Semester</b>			
XXXX	x3xx	Major Elective***	3
GOVT	2306	Texas Government	3
XXXX	x3xx	Component Area Option**	3
XXXX	x3xx	Major Elective***	3
XXXX	x3xx	Major Elective***	3
<b>Total Hours</b>			<b>15</b>
<b>Total Hours for Degree</b>			<b>60</b>

\* Check your transfer institution for specific degree requirements.

\*\* Choose from BIOL 14XX, 24XX; CHEM 1305, 1411, 1412; ECON 2301; ENGL 23XX; GEOL 1403, 1404; MATH 13XX, 2412, 2413; PHYS 1305, 1401, 1402, 2425, 2426; PSYC 2301, 2314; SPAN 2311; SPCH 1315, 1318, 1321; or SOCI 1301.

\*\*\*Choose major elective courses based on university requirements if transferring.

<sup>+</sup> Denotes courses included in the English Language & Literature Field of Study.

## ***Associate of Arts in Health and Physical Education***

Students who graduate with an Associate of Arts in Health and Physical Education degree will be able to work in entry-level positions in fitness leadership, corporate wellness, recreational facilities, and hospitals or transfer to a four-year institution in the field of Health and Physical Education.

### **Program Learning Outcomes (PLOs)**

After completing the AA in Health and Physical Education degree, students will be able to:

PLO 1: Apply fitness concepts to making choices that support lifetime fitness.

PLO 2: Create a performance-related fitness program for a specific activity.

PLO 3: Identify drugs' physiological and psychological effects in today's society.

PLO 4: Demonstrate knowledge of healthy nutritional practices for both lifetime and sport-related well-being.

PLO 5: Describe the various kinesiology sub-disciplines.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
PHED 11XX Activity Courses	X				
PHED 1115-1118 Coaching		X			
PHED 1346			X		
PHED 1304				X	
PHED 1301					X

### **Recommended Course Sequence:**

#### **1st Year**

##### **1st Semester**

ENGL	1301	Composition									3
HIST	1301	United States History I									3
STSU	0300 + SPCH	131X									3
MATH	1xxx	Mathematics Core									3
		Choose from MATH 1314, 1324, 1332, or 1342									3
PHED	1301	Foundations of Kinesiology*									3
										<b>Total Hours</b>	<b>15</b>

##### **2nd Semester**

ENGL	1302	Composition II									3
HIST	1302	United States History II									3
PHED	1304	Personal and Community Health									3
XXXX	xxxx	Life and Physical Sciences Core (Lecture + Lab)**									4
		Choose from BIOL, CHEM, GEOL, or PHYS									4
XXXX	x3xx	Creative Arts Core									4
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, MUSI 1307, or									4

MUSI 1310		3
	<b>Total Hours</b>	<b>16</b>
<b>2nd year</b>		
<b>1st Semester</b>		
ENGL 23xx	Language, Philosophy, and Culture Core Choose from ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, or 2351	3
GOVT 2305	Federal Government	3
XXXX xxxx	Life and Physical Sciences Core (Lecture + Lab)** Choose from BIOL, CHEM, GEOL, or PHYS	4
XXXX x3xx	Majors' Optional Courses*** Choose from PHED 1306, 1308, 1321, 1331, 1338, 1346, 2356, or BIOL 1322	3
PHED x1xx	Required Activity Course	1
	<b>Total Hours</b>	<b>14</b>
<b>2nd Semester</b>		
XXXX x3xx	Social and Behavioral Sciences Core Choose from PSYC 2301, SOCI1301, or ECON2301****	3
GOVT 2306	Texas Government	3
XXXX x3xx	Component Area Option****	3
PHED x3xx	Majors' Optional Courses*** Choose from PHED 1306, 1308, 1321, 1331, 1338, 1346, 2356, or BIOL 1322	3
PHED x3xx	Majors' Optional Courses*** Choose from PHED 1306, 1308, 1321, 1331, 1338, 1346, 2356, or BIOL 1322	3
	<b>Total Hours</b>	<b>15</b>
	<b>Total Hours for Degree</b>	<b>60</b>

\*Required by most universities in Texas. Check your transfer institution for specific degree requirements.

\*\*Athletic Training (AT) and Physical Therapy (PT) programs require BIOL 2401/2402. BIOL 2404 is acceptable for Teaching/Coaching majors.

\*\*\*Choose electives based on university requirements if transferring. Student athletic trainers may replace one 3-hr lecture course with three 1-hour practicum sections under the direction of Athletics Staff

\*\*\*\* Choose from BIOL 14XX, 24XX; CHEM 1305, 1411, 1412; ECON 2301; ENGL 23XX; GEOL 1403, 1404; MATH 13XX, 2412, 2413; PHYS 1305, 1401, 1402, 2425, 2426; PSYC 2301, 2314; SPAN 2311, 2312; SPCH 1315, 1318, 1321; SOCI 1301, 1306.





**2nd Semester**

ENGL	1302	Composition II	3
HIST	1302	United States History II	3
SPCH	1315	Public Speaking	3
XXXX	xxxx*	Life and Physical Sciences Core (Lecture + Lab) Choose from BIOL, CHEM, GEOL, or PHYS	4
XXXX	x3xx	Creative Arts Core Choose from ARTS 1301, DRAM 1310, MUSI 1306, MUSI 1307, or MUSI 1310	3
<b>Total Hours</b>			<b>16</b>

**2nd year****1st Semester**

EDUC	1301	Introduction to the Teaching Profession	3
GOVT	2305	Federal Government	3
MATH	1350	Fundamentals of Mathematics I	3
XXXX	xxxx*	Life and Physical Sciences Core (Lecture + Lab) Choose from BIOL, CHEM, GEOL, or PHYS	4
<b>Total Hours</b>			<b>13</b>

**2nd Semester**

EDUC	2301	Special Populations	3
GOVT	2306	Texas Government	3
MATH	1351	Fundamentals of Mathematics II	3
XXXX	xxxx*	Life and Physical Sciences Core (Lecture + Lab) Choose from BIOL, CHEM, GEOL, or PHYS	4
XXXX	x3xx	Language, Philosophy, and Culture Core Choose from ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, or 2351	3
<b>Total Hours</b>			<b>16</b>
<b>Total Hours for Degree</b>			<b>60</b>

\*Check with the receiving institution for specific degree requirements

\*\*GEOG 1303 may be substituted for the degree requirement but will not satisfy the core requirement

\*\*\*Choose major elective courses based on university requirements if transferring.

For complete details on the Texas state Associate of Arts in Teaching curriculum and the initial Texas Teacher Certification, visit the [Texas Higher Education Coordinating Board](#).

## **Associate of Arts in Visual Arts**

The Visual Arts degree is a pathway for students to gain employment as visual artists or transfer to a four-year college pursuing a Bachelor of Arts (B.A.) or Bachelor of Fine Arts (B.F.A.) degree. Students will complete general education core requirements while learning foundational visual arts skills through various approaches to media, including painting, drawing, two-dimensional design, and more. The program will also strongly focus on art history and foster an awareness of contemporary art and professional gallery practices.

### **Program Learning Outcomes (PLOs)**

After completing the AA in Visual Arts degree, students will be able to:

PLO 1: Demonstrate and apply art vocabulary in describing various artworks.

PLO 2: Apply the principles and elements of design and demonstrate good studio practices.

PLO 3: Exhibit artworks in a semi-professional environment with public presentation, assisting in all aspects of show preparation.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>			
Courses	PLO 1	PLO 2	PLO 3
ARTS 1304	X		
ARTS 1316		X	X

### **Recommended Course Sequence:**

	<b>Credit Hours</b>
<b>First Year</b>	
<b>Fall Semester</b>	
ARTS 1311 Basic Design	3
ARTS 1316 Basic Drawing	3
ARTS 1303 Art History Survey I	3
ENGL 1301 Composition I	3
STSU 0300 Student Success	0
PHED 1101 Exercise/Conditioning	1
<b>Total Hours</b>	<b>13</b>
<b>Spring Semester</b>	
ARTS 1304 Art History Survey II	3
ENGL 1302 Composition II	3
MATH 1332 Contemporary Math <b>or</b> MATH 1314 College Algebra	3
BIOL 1408 Biology for Non-Science Majors I	4
HIST 1301 US History I	3
<b>Total Hours</b>	<b>16</b>
<b>Second Year</b>	
<b>Fall Semester</b>	

ARTS	2316*	Painting I	3
HIST	1302	US History II	3
BIOL	1409	Biology for Non-Science Majors II	4
GOVT	2305	Federal Government	3
XXXX	x3xx	Language, Philosophy, and Culture Core Choose from ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351, SPAN 2311, or 2312	3
<b>Total Hours</b>			<b>16</b>
<b>Spring Semester</b>			
GOVT	2306	Texas Government	3
SOCI	1301	Introduction to Sociology	3
SPCH	1315	Public Speaking	3
XXXX	xxxx	Creative Arts Core Choose from DRAM 1310, MUSI 1310, or MUSI 1306 only	3
XXXX	x3xx	Language, Philosophy, and Culture Core Choose from ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351, SPAN 2311, or 2312	3
<b>Total Hours</b>			<b>15</b>
<b>Total Hours for Degree</b>			<b>60</b>

\*Prerequisites: See [course descriptions](#).

Academic core classes may be taken in summer sessions.

## GRAPHIC ARTS - DESIGN AND APPLIED ARTS

### ***Associate of Applied Science in Design and Applied Arts – Graphic Arts***

The Design and Applied Arts Program is designed to prepare students for employment as entry-level graphic artists with the knowledge and skills necessary to perform desktop publishing, photography, computer layout, graphic arts, digital imaging, web page design, and video for printers, media, advertising, and internet business. The program will instruct students in graphics, video, and digital computer programs and procedures and general interpersonal, communication, and organization skills. Workplace basic skills are integrated throughout the curriculum.

#### **Program Learning Outcomes (PLOs)**

After completing the AAS in Design and Applied Arts-Graphic Arts degree, students will be able to:

PLO 1: Solve design problems employing principles and elements of design to create compelling graphic artworks.

PLO 2: Use critical and creative thinking to develop the ability to conceptualize, design, revise, and execute a project from start to finish.

PLO 3: Learn to communicate concepts effectively, visually, and verbally to clients, colleagues, and professors, participating in professional design dialogues within a collaborative work setting.

PLO 4: Develop an understanding of the ethical dynamics in the use of LLMs and Image Generators.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>						
<b>Courses</b>			<b>PLO 1</b>	<b>PLO 2</b>	<b>PLO 3</b>	<b>PLO 4</b>
ARTC	1327	Typography	X	X	X	X
ARTS	2348	Digital Art	X	X	X	X
ARTC	1402	Digital Imaging I*	X	X	X	X
ARTC	2405	Digital Imaging II*	X	X	X	X
ARTC	1192	Special Topics in Design and Visual Communication*	X	X	X	X
GRPH	1459	Vector Graphics for Production	X	X	X	X
IMED	2411	Portfolio	X	X	X	X
ARTC	2388	Internship – Commercial & Advertising Art	X	X	X	X

**Recommended Course Sequence:**

**First Year**

<b>Fall Semester</b>			<b>Credit Hours</b>
ARTS	2356	Photography	3
ARTC	1327	Typography	3
ARTS	1311	Basic Design	3
ARTS	2348	Digital Art	3
SPCH	13xx	Component Area Option Choose from SPCH 1318, SPCH 1315, or 1321	3
STSU	0300	Student Success	0
<b>Total Hours</b>			<b>15</b>

**Spring Semester**

ARTC	1402	Digital Imaging I*	4
ARTC	1413	Digital Publishing I*	4
ARTS	1316	Basic Drawing	3
ENGL	1301	Composition I	3
XXXX	x3xx	Elective Choose from ARTS 1303, ARTS 1304, ARTS 2316, or ARTV 1351	3
<b>Total Hours</b>			<b>17</b>

**Second Year**

**Fall Semester**

MUSC	1335	Commercial Music Software	4
ARTC	2405	Digital Imaging II*	4
ARTC	1192	Special Topics in Design and Visual Communication*	1
MATH	x3xx	Mathematics Core Choose from MATH 1314, MATH 1332, or MATH 1324	3
<b>Total Hours</b>			<b>12</b>

**Spring Semester**

GRPH	1459	Vector Graphics for Production	4
IMED	2411	Portfolio	4
ARTC	2388	Internship – Commercial & Advertising Art	3
SOCI	1301	Introduction to Sociology	3
XXXX	x3xx	Creative Arts Core Choose from DRAM 1310, MUSI 1306, or MUSI 1310	3
<b>Total Hours</b>			<b>16</b>
<b>Total Hours for Degree</b>			<b>60</b>

\*Prerequisites: See [course descriptions](#). Academic core classes may be taken in summer sessions as well.

## **Level 1 Certificate in Design and Applied Arts – Graphic Arts**

### **Program Learning Outcomes (PLOs):**

After completing the Level 1 Certificate in Design and Applied Arts-Graphic Arts, students will be able to:

PLO 1: Solve design problems employing principles and elements of design to create compelling graphic works.

PLO 2: Display an understanding of industry-standard software and equipment.

PLO 3: Learn critical and creative thinking skills to solve design problems, including the ability to conceptualize, design, revise, and execute a project from start to finish.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
<b>Courses</b>			<b>PLO 1</b>	<b>PLO 2</b>	<b>PLO 3</b>
ARTC	1327	Typography	X	X	X
ARTS	2348	Digital Art	X	X	X
ARTC	1402*	Digital Imaging I	X	X	X
GRPH	1459	Vector Graphics for Production	X	X	X

### **Recommended Course Sequence:**

#### **Fall Semester**

					<b>Credit Hours</b>
ARTS	2356	Photography			3
ARTC	1327	Typography			3
ARTS	1311	Basic Design			3
ARTS	2348	Digital Art			3
STSU	0300	Student Success			0
					<b>Total Hours</b>
					<b>12</b>

#### **Spring Semester**

ARTC	1402*	Digital Imaging I			4
ARTC	1413*	Digital Publishing I			4
ARTS	1316	Basic Drawing			3
GRPH	1459	Vector Graphics for Production			4
					<b>Total Hours</b>
					<b>15</b>
					<b>Total Hours for Degree</b>
					<b>27</b>

\*Prerequisites: See Course Descriptions

## **Level 3 Enhanced Skills Certificate in Design and Applied Arts – Graphic Arts**

### **Program Learning Outcomes (PLOs)**

After completing the Level 3 Enhanced Skills in Design and Applied Arts-Graphic Arts, students will be able to:

PLO 1: Demonstrate mastery in lighting methodology for film, including the use of varied lamps, understanding of color temperature, and the manipulation of light quality and direction.

PLO 2: Plan a shoot, perform on-location shooting, deal with random circumstances, and maintain production schedules.

PLO 3: Demonstrate management skills for a small business, create a business plan, and outline issues related to choosing a business and obtaining a return on investment.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>			
Courses	PLO 1	PLO 2	PLO 3
FLMC 1304 – Lighting for Film	X	X	X
RTVB 1321 – TV/Video Field Production	X	X	X
BUSG 2309 – Small Business Management Entrepreneurship			X

### **Recommended Course Sequence:**

<b>First Semester</b>	<b>Credit Hours</b>
FLMC 1304    Lighting for Film or Video	3
RTVB 1321    TV/Video Field Production	3
BUSG 2309    Small Business Management/Entrepreneurship	3
<b>Total Hours</b>	<b>9</b>

View the Graphic Arts pathway at [www.angelina.edu/arts-education-pathways](http://www.angelina.edu/arts-education-pathways)



## MUSIC

### *Associate of Arts in Music*

The Associate of Arts in Music is an academic transfer degree leading to a Bachelor's degree in Music. Career options include (but are not limited to) Education, Music Therapy, Arts Management, Technology, Sacred Music, Composition, and Performance.

#### Program Learning Outcomes (PLOs)

After completing the AA in Music degree, students will be able to:

PLO 1: Analyze a musical score from the Western tradition.

PLO 2: Create a single-line atonal composition using and applying a 12-tone matrix.

PLO 3: Demonstrate advanced technique in their primary performance area in a juried performance.

PLO 4: Demonstrate basic proficiency in piano skills.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
Courses	PLO 1	PLO 2	PLO 3	PLO 4
MUSI 2311	X			
MUSI 2312		X		
Juried performance			X	
MUSI 2181 or 2182				X

#### Recommended Course Sequence:

##### First Year

##### Fall Semester

	<b>Credit Hours</b>
MUSI 1311 <sup>+</sup> Music Theory I	3
MUSI 1116 <sup>+</sup> Sight-Singing and Ear Training I	1
MUAP 12xx <sup>+</sup> Private instruction, primary instrument	2
MUSI 1181 <sup>**</sup> Piano Class I	1
MUEN x1xx Ensemble <sup>+</sup>	1
ENGL 1301 Composition I	3
HIST 1301 US History I	3
STSU 0300 Student Success	0

**Total Hours      14**

##### Spring Semester

MUSI 1312 <sup>**</sup> Music Theory II	3
MUSI 1117 <sup>**</sup> Sight-Singing and Ear Training II	1
MUAP 12xx <sup>+</sup> Private instruction, primary instrument	2

MUSI	1182*	Piano class II	1
MUEN	x1xx	Ensemble <sup>+</sup>	1
ENGL	1302	Composition II	3
HIST	1302	US History II <b>or</b>	
	MUSI	1307 Music Literature	3
<b>Total Hours</b>			<b>14</b>
<b>Second Year</b>			
<b>Fall Semester</b>			
MUSI	2311**	Music Theory III	3
MUSI	2116**	Sight-Singing and Ear Training III	1
MUAP	22xx <sup>+</sup>	Private Instruction, Primary Instrument	2
MUSI	2181*	Piano Class III	1
MUEN	x1xx <sup>+</sup>	Ensemble	1
GOVT	2305	Federal Government	3
XXXX	x4xx	Lab Science	4
MATH	x3xx	Mathematics Core	
		Choose from MATH 1314 <b>or</b> 1332	3
<b>Total Hours</b>			<b>18</b>
<b>Spring Semester</b>			
MUSI	2312**	Music Theory IV	3
MUSI	2117**	Sight-Singing and Ear Training IV	1
MUAP	22xx	Private instruction, primary instrument <sup>+</sup>	2
MUSI	2182*	Piano class IV	1
MUEN	x1xx <sup>+</sup>	Ensemble <sup>+</sup>	1
GOVT	2306	Texas Government	3
HIST	1302	US History II <b>or</b>	
	MUSI	1307 Music Literature <sup>+</sup>	3
<b>Total Hours</b>			<b>14</b>
<b>Total Hours for Degree</b>			<b>60</b>

\*Prerequisites: See [Course Descriptions](#). \*\*Piano is required of all music majors. Piano majors must select a different secondary instrument. <sup>+</sup> Denotes courses included in the Music Field of Study.

## SOCIAL WORK

### *Associate of Arts with Field of Study in Social Work*

Senate Bill 148 of the 75th Texas Legislature (1997) mandated Field of Study curricula. The Field of Study curricula, along with core curricula, are intended to facilitate transferability of courses among Texas public colleges and universities. All public four-year institutions are required to accept Coordinating Board approved Field of Study courses in fulfillment of lower-division requirements for bachelor's degrees in majors that correspond to the Field of Study. The Field of Study for Social Work is designed for students seeking the Bachelor of Social Work degree.

The revised Field of Study for Social Work was approved by the Texas Higher Education Coordinating Board in February 2023. Students who complete the Texas Core Curriculum and Field of Study at any public two-year institution automatically qualify to receive an associate degree. They are also qualified to transfer their courses as a block applied directly to their selected major. View the Social Work pathway at [www.angelina.edu/social-work-pathways](http://www.angelina.edu/social-work-pathways).

Program Learning Outcomes (PLO): After completing the AA with Field of Study in Social Work degree, students will be able to:

PLO 1: Identify and summarize the philosophy, history, and practice of social work in the United States.

PLO 2: Identify and summarize the political, economic, and cultural values and ideologies that shape social welfare policy, programs, and services.

PLO 3: Identify and summarize the various methods and techniques used in social work practice.

PLO 4: Identify and summarize the role of culture and social structure in shaping and influencing human behavior.

PLO 5: Identify and summarize problems and issues pertaining to life in the United States.

Courses Measuring the Achievement of Program Learning Outcomes				
Courses	PLO 1	PLO 2	PLO 3	PLO 4
SOCW 2361	X			
SOCW 2362		X		
SOCW 2389			X	
SOCI 1301				X
SOCI 1306				

## Recommended Course Sequence:

### First Year

Fall Semester			Credit Hours
ENGL	1301 <sup>+</sup>	Composition I	3
XXXX	x3xx	Component Area Option	3
MATH	1342*	Elementary Statistical Methods	3
HIST	1301	US History I	3
XXXX	x3xx <sup>+</sup>	Field of Study Directed Elective**	3
STSU	0300	Student Success	0
<b>Total Hours</b>			<b>15</b>

### Spring Semester

ENGL	1302* <sup>+</sup>	Composition II	3
XXXX	x3xx	Life and Physical Science Core	
		Choose from Biology, Chemistry, or Physics	3
XXXX	x3xx <sup>+</sup>	Field of Study Directed Elective**	3
HIST	1302	US History II	3
SCWK	2361 <sup>+</sup>	Introduction to Social Work	3
<b>Total Hours</b>			<b>15</b>

### Second Year

#### Fall Semester

SPCH	1315	Public Speaking <b>or</b> SPCH 1321 Business & Professional Communication <b>or</b> SPCH 1318 Interpersonal Communication	3
XXXX	x3xx	Life and Physical Science Core	
		Choose from Biology, Chemistry, or Physics	3
GOVT	2305	Federal Government	3
SOCI	1306 <sup>+</sup>	Social Problems	3
SOCW	2362 <sup>+</sup>	Social Welfare: Legislation, Programs, and Services	3
<b>Total Hours</b>			<b>15</b>

#### Spring Semester

GOVT	2306	Texas Government	3
SOCW	2389 <sup>+</sup>	Academic Cooperative	3
ECON	2301	Principles of Macroeconomics	3
XXXX	x3xxx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 1310	3
ENGL	23xx	ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351, or SPAN 2311, 2312	3
<b>Total Hours</b>			<b>15</b>
<b>Total Hours for Degree</b>			<b>60</b>

\*Prerequisites: See Course Descriptions.

\*\*Directed Electives are determined by target transfer institution. Contact an advisor for Field of Study Directed Elective options for specific four-year institutions.

+Course included in the Field of Study.

## THEATER

### *Associate of Arts in Theater*

The Theater Arts Program is designed to prepare students for employment as entry-level technicians and actors in professional theater. The program provides students with the knowledge and skills to continue their education at both university and conservatory programs, as well as bachelor's degrees leading to secondary and college-level theater education. Workplace basic skills are integrated throughout the curriculum, providing students with instruction in the basics of backstage duties, responsibilities, and design. The program will also provide ample acting opportunities and course instruction for the beginning actor.

#### Program Learning Outcomes (PLOs)

After completing the AA in Theater degree, students will be able to:

PLO 1: Demonstrate their comprehension of the basic backstage tasks involved in production.

PLO 2: Demonstrate their comprehension of backstage job responsibilities within the standard theatrical hierarchy of duties during production.

PLO 3: Demonstrate comprehension of the rehearsal process.

PLO 4: Perform an acting monologue to demonstrate basic acting skills.

Courses Measuring the Achievement of Program Learning Outcomes				
Courses	PLO 1	PLO 2	PLO 3	PLO 4
DRAM 1351			X	X
DRAM 1330	X	X		

#### Recommended Course Sequence:

First Year	Credit Hours
<b>Fall Semester</b>	
DRAM 1310 Theater Appreciation	3
DRAM 1351 Acting I* <b>or</b> DRAM 1330 Stagecraft*	3
DRAM 1120 Theater Lab	1
ENGL 1301 Composition I	3
HIST 1301 US History I	3
STSU 0300 Student Success	0
<b>Total Hours</b>	<b>13</b>

**Spring Semester**

DRAM	1341	Stage Makeup*	3
DRAM	1121	Theater Lab*	1
ENGL	1302	Composition II	3
HIST	1302	US History II	3
MATH	1314	College Algebra <b>or</b> MATH 1332 Contemporary Math	3
XXXX	xxxx	Life & Physical Sciences Core	
		Choose from BIOL, CHEM, GEOL, <b>or</b> PHYS	4
<b>Total Hours</b>			<b>17</b>

**Second Year****Fall Semester**

DRAM	1352	Acting II* <b>or</b>	
	DRAM	1330 Stagecraft*	3
DRAM	2120	Theater Lab	1
GOVT	2305	Federal Government	3
ENGL	23xx	Sophomore Literature	
		Choose from ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, <b>or</b> 2351	3
XXXX	xxxx	Life & Physical Sciences Core	
		Choose from BIOL, CHEM, GEOL, <b>or</b> PHYS	4
<b>Total Hours</b>			<b>14</b>

**Spring Semester**

DRAM	2121	Theater Lab	1
		Cognitive Elective**	3
SPCH	1315	Public Speaking	3
GOVT	2306	Texas Government	3
SOCI	1301	Introduction to Sociology <b>or</b>	
	PSYC	2301 General Psychology	3
ENGL	23xx	Sophomore Literature	
		Choose from ENGL 2322, 2323, 2327, 2328, 2332, 2333, <b>or</b> 2341	3
<b>Total Hours</b>			<b>16</b>
<b>Total Hours for Degree</b>			<b>60</b>

\*Students focusing on performance should select from DRAM 1352, DRAM 2336, MUAP 1181, 1182, or MUSI 1183. Students focusing on technical theater should select from DRAM 2331 or DRAM 1342.

\*\*All Theater majors must enroll in Theater Lab for 4 semesters. Students should take Acting I & II and Stagecraft I & II in alternate years. Incoming Theater majors do not have to take DRAM 1310 before Acting I.

## SCHOOL OF BUSINESS AND TECHNOLOGY

The workplace is changing, as are the skills students must have to enter the workplace. We will assist you in connecting your college experiences with the competencies you'll need to succeed in the workforce. The Business and Technology programs reflect an effort to prepare students with skills and competencies that employers desire. With a wide variety of offerings, we are confident we will have the program for you!

- **Automotive Technology**
- **Business Administration and Management**
- **Business and Supervision**
- **Child and Family Development**
- **Criminal Justice**
- **Drafting and Design Technology**
- **Diesel Technology**
- **Electromechanical Technology**
- **Electronics Technology**
- **Heating, Ventilation, Air Conditioning, and Refrigeration**
- **Law Enforcement Technology**
- **Machine Tool Technology**
- **Network Administration**
- **Office Administration**
- **Paralegal**
- **Real Estate**
- **Software Development \*PROPOSED\***
- **Welding Technology**

## **BUSINESS ADMINISTRATION AND MANAGEMENT**

### ***Associate of Arts with Field of Study in Business Administration and Management***

Senate Bill 148 of the 75th Texas Legislature (1997) mandated Field of Study curricula. The Field of Study curricula, along with core curricula, are intended to facilitate transferability of courses among Texas public colleges and universities. All public four-year institutions are required to accept Coordinating Board approved Field of Study courses in fulfillment of lower-division requirements for bachelor's degrees in majors that correspond to the Field of Study. The Field of Study for Business Administration is designed for students seeking the Bachelor of Business Administration degree, including all specializations, concentrations, etc.

The revised Field of Study for Business Administration was approved by the Texas Higher Education Coordinating Board in July 2022. Students who complete the Texas Core Curriculum and Field of Study at any public two-year institution automatically qualify to receive an associate degree. They are also qualified to transfer their courses as a block applied directly to their selected major.

The field of study courses apply to the bachelor's degree BA or BS as deemed appropriate by the awarding institution. The field of study curriculum guides community and technical colleges in structuring a transfer curriculum in Business Administration. Fields of study are valid only when no course substitutions are made.

#### **Program Learning Outcomes (PLOs)**

After completing the AA with Field of Study in Business Administration and Management degree, students will be able to:

PLO 1: Demonstrate their knowledge of the advantages and disadvantages of all forms of ownership.

PLO 2: Demonstrate their knowledge of basic accounting terminology and concepts for daily business operations.

PLO 3: Demonstrate the ability to analyze macroeconomic data to enhance economic decision-making.

PLO 4: Demonstrate their knowledge of cost structures and explain how firms make decisions based on production costs.

PLO 5: Demonstrate their knowledge of the critical thinking process for solving problems.

PLO 6: Demonstrate the ability to conduct cost/benefit analysis utilizing tangibles and intangibles or economic decision-making for households and business firms.



Courses Measuring the Achievement of Program Learning Outcomes						
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
BUSI 1301	X					
ACCT 2301		X				
ECON 2301			X			
ACCT 2302				X		
MATH 1324					X	
ECON 2302						X

### Recommended Course Sequence:

#### First Year

##### First Semester

			Credit Hours
ENGL	1301	Composition I	3
BUSI	1301 <sup>+</sup>	Business Principles	3
XXXX	x3xx	Component Area Option**	3
ACCT	2301 <sup>+</sup>	Principles of Financial Accounting	3
ECON	2301 <sup>+</sup>	Principles of Macroeconomics	3
STSU	0300	Student Success	0
<b>Total Hours</b>			<b>15</b>

##### Second Semester

ENGL	1302*	Composition II	3
MATH	1324 <sup>+</sup>	Mathematics for Business & Social Sciences	3
ACCT	2302 <sup>+</sup>	Principles of Managerial Accounting	3
HIST	1301	US History I	3
ECON	2302 <sup>+</sup>	Principles of Microeconomics	3
<b>Total Hours</b>			<b>15</b>

#### Second Year

##### First Semester

XXXX	x3xx <sup>+</sup>	Field of Study Directed Elective	3
ENGL	23xx	ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, or 2351	3
GOVT	2305	Federal Government	3
XXXX	x3xx	Life & Physical Science Core Choose from Biology, Chemistry, or Physics	3
XXXX	xxxx	Creative Arts Core Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 1310	3
<b>Total Hours</b>			<b>15</b>

##### Second Semester

XXXX	x3xx <sup>+</sup>	Field of Study Directed Elective	3
XXXX	x3xx	Life & Physical Science Core Choose from Biology, Chemistry, Physics, or Geology	3
SPCH	1315	Public Speaking or SPCH 1321 Business & Professional Communication	3
GOVT	2306	Texas Government	3
HIST	1302	US History II	3
<b>Total Hours</b>			<b>15</b>
<b>Total hours for Degree</b>			<b>60</b>

\*Prerequisites: See [Course Descriptions](#).

\*\*Guided elective options: BCIS 1305, BUSI 2301, BUSI 2305, MATH 1325, MATH 1342, or any course from the Language, Philosophy, and Culture list in the core curriculum.

†Course included in the Field of Study.

View the complete [field of study for Business Administration](#) from the Texas Higher Education Coordinating Board. Students should work with their AC success coach and advisor at their transfer institution to ensure the transferability of classes.

## BUSINESS AND SUPERVISION

### *Associate of Applied Science in Business and Supervision*

As the workplace becomes increasingly competitive, increased skills are required to continue progressing in your career. The Business and Supervision program at Angelina College will equip you with management tools to set you apart from your co-workers. Pursuing a degree in Business and Supervision will provide you with an in-depth look into Business Principles, Human Resources Management, Marketing, Business Ethics, Professional Speech, and more. Entering the Business and Supervision program assists you in becoming a more efficient and well-rounded employee in your day-to-day tasks.

In addition to enhancing your skills as a manager, this program encourages entrepreneurship. This program is an excellent fit if you want to learn about starting your own business. Business and Supervision program students must be eager to excel in the workforce, dedicated to learning, and excited to expand their knowledge of business principles. This program provides a start to a diverse career in business. Graduates will be prepared to assume a role in profit and nonprofit business administration or start a small business. Graduates of this degree plan will be equipped with the skills to be leaders in management. If you are looking for a great place to start learning more about the exciting business world, this is the degree plan for you.

View the Business and Supervision pathway at [www.angelina.edu/business-technology-pathways](http://www.angelina.edu/business-technology-pathways)

#### **Program Learning Outcomes (PLOs)**

After completing the AAS in Business and Supervision degree, students will be able to:

PLO 1: Demonstrate their knowledge of the advantages and disadvantages of all forms of ownership.

PLO 2: Demonstrate in-depth knowledge of marketing theory and concepts and identify and explain how environmental factors influence organizational decision-making.

PLO 3: Demonstrate the ability to define and explain how managing information and technology is valuable to employers and employees.

PLO 4: Demonstrate knowledge of the critical thinking process for solving problems in a business environment.

PLO 5: Demonstrate knowledge of the theory and techniques to construct formal business correspondence.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
<b>Courses</b>	<b>PLO 1</b>	<b>PLO 2</b>	<b>PLO 3</b>	<b>PLO 4</b>	<b>PLO 5</b>
BUSI 1301	X			X	
MRKG 1311		X			
BCIS 1305			X		
POFT 1321 or BUSI 2304					X
BMGT 1341				X	

**Recommended Course Sequence:**

**First Year**

**First Semester**

			<b>Credit Hours</b>
BUSI	1301	Business Principles	3
POFT	1301	Business English	3
BCIS	1305	Business Computer Applications	3
BMGT	1327	Principles of Management	3
POFT	1321	Business Math	3
STSU	0300	Student Success	0
<b>Total Hours</b>			<b>15</b>

**Second Semester**

MATH	1324*	Mathematics for Business and Social Sciences	3
HRPO	1311	Human Relations	3
MRKG	1311	Principles of Marketing	3
BMGT	1301	Supervision	3
ENGL	1301	Composition I	3
<b>Total Hours</b>			<b>15</b>

**Second Year**

**First Semester**

BUSG	1380	Cooperative Education I, Business	3
HRPO	2301	Human Resources Management	3
ECON	2301	Principles of Macroeconomics	3
BMGT	1341	Business Ethics	3
SPCH	1315	Public Speaking <b>or</b>	
	SPCH 1321	Business & Professional Speech	3
<b>Total Hours</b>			<b>15</b>

**Second Semester**

BUSG	2309	Small Business Management <b>or</b>	
	BMGT	2303 Problem-Solving and Decision Making	3
BUSG	1381	Cooperative Education II, Business	3
BUSI	2304	Business Report Writing & Correspondence	3
ACNT	1303	Introduction to Accounting <b>or</b>	
	BUSI	2301 Business Law	3
XXXX	x3xx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, <b>or</b> MUSI 1310	3
<b>Total Hours</b>			<b>15</b>
<b>Total hours for Degree60</b>			

\*Prerequisites: See [Course Descriptions](#).

Capstone/Field Experience: BUSG 1381 – Cooperative Education II, Business

## **Level 1 Certificate in Business and Supervision**

### **Program Learning Outcomes (PLOs)**



This certificate stacks  
into the corresponding  
AAS degree

After completing the Level 1 Certificate in Business and Supervision, students will be able to:

PLO 1: Demonstrate their knowledge of the advantages and disadvantages of all forms of ownership.

PLO 2: Demonstrate in-depth knowledge of marketing theory and concepts and identify and explain how environmental factors influence organizational decision-making.

PLO 3: Demonstrate the ability to define and explain how managing information and technology is valuable to employers and employees.

PLO 4: Demonstrate their knowledge of the critical thinking process for solving problems in a business environment.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
Courses	PLO 1	PLO 2	PLO 3	PLO 4
BUSI 1301	X			X
MRKG 1311		X		
BCIS 1305			X	

### **Recommended Course Sequence:**

<b>First Semester</b>	<b>Credit Hours</b>
BUSI 1301 Business Principles	3
HRPO 2301 Human Resource Management	3
BCIS 1305 Business Computer Applications	3
BMGT 1327 Principles of Management	3
<b>Total Hours</b>	<b>12</b>
<b>Second Semester</b>	<b>Credit Hours</b>
BUSG 1380 Cooperative Education I, Business	3
MRKG 1311 Principles of Marketing	3
BMGT 1301 Supervision	3
BUSG 2309 Small Business Management <b>or</b> BMGT 2303 Problem Solving and Decision Making	3
<b>Total Hours</b>	<b>12</b>
<b>Total Hours for Certificate</b>	<b>24</b>

Capstone Course: BUSG 1380-Cooperative Education I, Business

## **CHILD AND FAMILY DEVELOPMENT**

A Child and Family Development degree provides an in-depth understanding of varied career opportunities in the profession through course studies. A career in Child and Family Development is gratifying. It requires a positive self-concept, who is energetic and reliable, and who genuinely enjoys working with children and their families.

Students will have hands-on supervised experiences with children from birth to 13 years of age and will apply knowledge they have attained in the classroom. Students will engage in field experiences at an approved licensed/accredited childcare facility or public/private school in the community.

The Associate of Applied Science degree can be completed in two years by attending full-time and following the degree plan. The certificate may be completed in one year if attending full-time.

The Child and Family Development program at Angelina College transfers up to 65 credits to Stephen F. Austin State University toward the Bachelor of Science in Human Development and Family Studies through an Articulation Agreement. Students transferring to Stephen F. Austin State University typically complete the Bachelor of Science degree in two years.

### **Required Field Experience Participation Criteria Child and Family Development**

All students must comply with the Texas Department of Family and Protective Services, Licensing Division state personnel qualifications as stated in the Minimum Standards for Childcare Centers § 746.1103. These requirements include:

- a. A current negative TB test.
  - b. An acceptable criminal history and central registry background check.
  - c. A Notarized Licensing Affidavit for Applicants for Employment form.
  - d. Completion of 24 hours of pre-service training (offered at the beginning of each semester).
  - e. Completion of orientation to the Field Experience Site.
1. Must comply with all other Child and Family Development requirements identified in the course syllabi and the Field Experience Contract or other documents required by the instructor.
  2. The following guidelines for field experience must followed:
    - a. Field Experience may be conducted at an approved site within the student's local area, such as childcare facilities or public/private schools that are licensed or accredited, as appropriate.
    - b. Field experiences may be conducted at the student's place of employment (licensed childcare centers or accredited public/private schools).
    - c. All field experience supervisors must agree to provide feedback to Angelina College Child and Family instructors.

## ***Associate of Applied Science in Child and Family Development***

The AAS – Child and Family Development introduces students to teaching, parenting styles, educational philosophies, health, safety, nutrition, community involvement, developmentally appropriate practices and environments from birth through age 13, positive guidance, and children with special needs. The program opens entry-level, intermediate, or advanced job opportunities for teachers and advocates. Students must take the Texas Success Initiative (TSI) assessment to demonstrate college readiness unless otherwise exempted.

The purpose of the Child and Family Development associate degree is to academically prepare students for direct entry into many positions available in the Child and Family Development profession. The students may also transfer to one of the many colleges and universities offering a Bachelor of Applied Science (BAS) or graduate programs in Child and Family Development.

### **Program Learning Outcomes (PLOs)**

After completing the AAS in Child and Family Development degree, students will be able to:

PLO 1: Select and plan developmentally appropriate learning experiences for young children.

PLO 2: Apply critical thinking skills in selecting developmentally appropriate materials for infants and toddlers within a given budget.

PLO 3: Apply knowledge of how family, school, and community influence children as demonstrated through the development of a Parent Education Meeting.

PLO 4: Apply knowledge of the field to address problems associated with the functions of an administrator in a childcare facility.

PLO 5: Demonstrate teamwork skills in Field Experiences.

PLO 6: Apply knowledge of the development of a child by developing a case study assessment.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>						
<b>Courses</b>	<b>PLO 1</b>	<b>PLO 2</b>	<b>PLO 3</b>	<b>PLO 4</b>	<b>PLO 5</b>	<b>PLO 6</b>
CDEC 1413 or CDEC 1458	X					
CDEC 1421		X				
TECA 1318			X			
CDEC 2426				X		
TECA 1303					X	
TECA 1354						X

**Recommended Course Sequence:**

**First Year****First Semester**

			<b>Credit Hours</b>
STSU	0300	Student Success	0
TECA	1354	Child Growth & Development	3
TECA	1311	Educating Young Children	3
CDEC	1413	Curriculum Resources for Early Childhood Programs	4
SPCH	1318	Interpersonal Communication	3
ENGL	1301	Composition I	3
<b>Total Hours</b>			<b>16</b>

**Second Semester**

TECA	1318	Wellness of the Young Child	3
TECA	1303	Families, School, and Community	3
ENGL	1302	Composition II	3
PSYC	2301	General Psychology	3
XXXX	x3xx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, <b>or</b> MUSI 1310	3
<b>Total Hours</b>			<b>15</b>

**Second Year****First Semester**

CDEC	1419	Child Guidance	4
CDEC	1421	The Infant and Toddler	4
GOVT	2306	Texas Government	3
XXXX	xxxx	Life & Physical Science Core	
		Choose from BIOL 1408, BIOL 1409, BIOL 1411, CHEM 1305 + 1105, <b>or</b> CHEM 1411	4
<b>Total Hours</b>			<b>15</b>

**Second Semester**

CDEC	1458	Creative Arts for Early Childhood	4
CDEC	1359	Children with Special Needs	3
CDEC	2426	Administration of Programs for Children I	4
GOVT	2305	Federal Government	3
<b>Total Hours</b>			<b>14</b>
<b>Total Hours for Degree</b>			<b>60</b>

Capstone: CDEC 1458 – Creative Arts for Early Childhood

Technical Math courses (TECM) do not satisfy the core general education Life & Physical Science/Mathematics requirement.





This certificate stacks into the corresponding AAS degree

## **Level 1 Administrative Certificate in Child and Family Development**

This certificate is designed for students seeking an administrative position in the child and family field. This certificate provides the education the Texas Health and Human Services Department of Family and Protective Services requires for childcare licensing. The courses included in this certificate will aid in becoming a director/administrator at a childcare facility, licensed childcare home, and other child and family development professions as regulated by the State of Texas. Basic child and family development skills using educational philosophies, health, safety, nutrition, community involvement, developmentally appropriate practices, activities, and environments from birth through age 13, positive guidance and children with special needs, and two additional business-related courses as deemed appropriate by its content to meet educational needs to better prepare and equip students for an administrative role are all content areas covered extensively. This certificate will prepare students for administrative jobs related to Child and Family Development.

View the Child and Family Development pathway at [www.angelina.edu/business-technology-pathways](http://www.angelina.edu/business-technology-pathways)

### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Administrative Certificate in Child and Family Development, students will be able to:

- PLO 1: Select and plan developmentally appropriate learning experiences for young children.
- PLO 2: Apply critical thinking skills in selecting developmentally appropriate materials for infants and toddlers within a given budget.
- PLO 3: Apply knowledge of how family, school, and community influence children as demonstrated through the development of a Parent Education Meeting.
- PLO 4: Apply knowledge of the field to address problems associated with the functions of an administrator in a childcare facility.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
<b>Courses</b>	<b>PLO 1</b>	<b>PLO 2</b>	<b>PLO 3</b>	<b>PLO 4</b>
CDEC 1413 or CDEC 1458	X			
CDEC 1421		X		
TECA 1318			X	
CDEC 2426				X

**Recommended Course Sequence:**

**First Year**

<b>First Semester</b>			<b>Credit Hours</b>
CDEC	1413	Curriculum Resources for Early Childhood Programs	4
CDEC	1419	Child Guidance	4
CDEC	1421	The Infant and Toddler	4
TECA	1354	Child Growth & Development	3
TECA	1311	Educating Young Children	3
<b>Total Hours</b>			<b>18</b>

**Second Semester**

CDEC	1359	Children with Special Needs	3
CDEC	2426	Administration of Programs for Children I	4
TECA	1318	Wellness of the Young Child	3
HRPO	2301	Human Resources Management <b>or</b>	
	BMGT	1301 Supervision <b>or</b> BMGT 1327 Principles of Management	3
<b>Total Hours</b>			<b>13</b>
<b>Total hours for Certificate</b>			<b>31</b>

Capstone Course: CDEC 2426- Administration of Programs for Children I



This certificate stacks into the corresponding AAS degree

### Level 1 Certificate in Child and Family Development

This certificate is designed for the beginning or seasoned child and family educator or advocate. It introduces students to basic child and family development skills using educational philosophies, health, safety, nutrition, community involvement, developmentally appropriate practices, activities, and environments from birth through age 13, positive guidance, and children with special needs. This certificate will prepare students for jobs related to child and family development.

#### Program Learning Outcomes (PLOs)

After completing the Level 1 Certificate in Child and Family Development, students will be able to:

PLO 1: Select and plan developmentally appropriate learning experiences for young children

PLO 2: Apply critical thinking skills in selecting developmentally appropriate materials for infants and toddlers within a given budget.

PLO 3: Apply knowledge of how family, school, and community influence children as demonstrated through the development of a Parent Education Meeting.

PLO 4: Apply knowledge of the field to address problems associated with the functions of an administrator in a childcare facility.

PLO 5: Demonstrate teamwork skills in Field Experiences.

Courses Measuring the Achievement of Program Learning Outcomes					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
CDEC 1413 or CDEC 1458	X				
CDEC 1421		X			
TECA 1318			X		
CDEC 2426				X	
TECA 1303					X

#### Recommended Course Sequence:

First Semester			Credit Hours
CDEC 1413	Curriculum Resources for Early Childhood Programs		4
CDEC 1419	Child Guidance		4
CDEC 1421	The Infant and Toddler		4
TECA 1354	Child Growth & Development		3
TECA 1311	Educating Young Children		3
			<b>Total Hours</b>
			<b>18</b>
Second Semester			
CDEC 1359	Children with Special Needs		3
TECA 1318	Wellness of the Young Child		3

TECA	1303	Families, School, and Community	3
CDEC	1458	Creative Arts for Early Childhood	4
<b>Total Hours</b>			<b>13</b>
<b>Total Hours for Certificate</b>			<b>31</b>

Capstone: CDEC 1458 – Creative Arts for Early Childhood

### ***Level 1 Certificate in Child Development (CDA)***

The Child Development (CDA) Credential™ is the most widely recognized credential in early childhood education (ECE) and is a crucial stepping stone for career advancement in ECE. This national credential is obtained through the Child Development (CDA) National Credentialing Program and administered by the Council for Professional Recognition. The Child Development (CDA) Credential™ is based on a core set of competency standards that guide early care professionals toward becoming qualified teachers of young children. The Council ensures that the nationally transferable CDA is a credible and valid credential recognized by the profession as a vital part of professional development. CDAs know how to put the CDA Competency Standards into practice and understand why those standards help children succeed from one developmental stage to another. CDAs know how to nurture children's emotional, physical, intellectual, and social development. The credential may be obtained for one of four settings:



- Infant/toddler (birth - 36 months)
- Preschool (3 – 5 years old)
- Family childcare (birth – 5 years old)
- Home visitor

Candidates may apply for one credential at a time. An additional application, fee, and assessment are required when applying for an additional credential. This credential expires three years from the award date and must be renewed. The renewal is for the original setting, age-level endorsement, and specialization.

### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in Child Development (CDA), students will be able to:

PLO 1: Select and plan developmentally appropriate learning experiences for young children.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>	
Courses	PLO 1
CDEC 1413 or CDEC 1458	X

### **Recommended Course Sequence:**

<b>First Semester</b>			<b>Credit Hours</b>
CDEC	1417	Child Development Associate Training I*	4
CDEC	2422	Child Development Associate Training II*	4

		<b>Total Hours</b>	<b>8</b>
<b>Second Semester</b>		<b>Credit Hours</b>	
CDEC 2424	Child Development Associate Training III*		4
CDEC 1413	Curriculum Resources for Early Childhood Programs <b>or</b>		
CDEC 1458	Creative Arts for Early Childhood		4
		<b>Total Hours</b>	<b>8</b>
		<b>Total Hours for Certificate</b>	<b>16</b>

Capstone: CDEC 1413 – Curriculum Resources for Early Childhood Programs or CDEC 1458 – Creative Arts for Early Childhood

\*Students who complete CDEC 1417, CDEC 2422, and CDEC 2424 at Angelina College, each with a grade of "C" or higher, may submit a course substitution form to the dean's office in the School of Business and Technology to receive credit for TECA 1303. This substitution provides a pathway for students to apply their CDA coursework to a higher Child and Family Development credential at Angelina College.



ITCC	2420	CCNA 3: Enterprise Networking, Security and Automation	4
XXXX	x3xx	Creative Arts Core Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 1310	3
<b>Total Hours</b>			<b>14</b>

**Second Year  
First Semester**

ITSC	1316	Linux Installation and Configuration	3
ITNW	1453	Supporting Network Server Infrastructure	4
ITNW	2405	Network Administration	4
MATH	1314	College Algebra	3
<b>Total Hours</b>			<b>15</b>

**Second Semester**

ITCC	2343	Network Security	3
ITSY	2430	Intrusion Detection	4
ITNW	1336	Cloud Deployment and Infrastructure Management	3
SPCH	1318	Interpersonal Communication	3
ITNW	2264	Practicum: Computer Systems Networking and Telecommunications	2
<b>Total Hours</b>			<b>15</b>
<b>Total Hours for Degree</b>			<b>60</b>

Capstone Course: ITNW 2264

## **Cisco Certified Network Associate (CCNA) Level 1 Certificate**

The Cisco Certified Network Associate (CCNA) Certificate prepares students for jobs in the computer networking field. Students in this program gain hands-on skills in basic network design, network management, network automation, network security, and device management. After successfully completing this program, students will be prepared to take the Cisco Certified Network Associate (CCNA) certification exam. This certificate can be stacked, and earned credits can be applied toward the Associate of Applied Science in Network Administration and the Associate of Applied Science in Electronics Technology.



### **Program Learning Outcomes (PLO):**

After completing the Cisco Certified Network Associate CNA Level 1 Certificate, students will be able to:

PLO 1: Assemble networking devices to include hardware and operating system software.

PLO 2: Safeguard network devices, protocols, and services.

PLO 3: Appraise network performance to improve the reliability of network services.

PLO 4: Synthesize data for systematization of network services.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
Courses	PLO 1	PLO 2	PLO 3	PLO 4
ITCC 1414	X			
ITSC 1444		X		
ITCC 1305			X	
ITCC 2420				X

### **Recommended Course Sequence:**

#### **First Year**

##### **Fall Semester**

##### *Full Term*

ITCC 1414 CCNA 1: Introduction to Networks 4

##### Term 1

ITSC 1305<sup>+</sup> Introduction to PC Operating Systems or  
BCIS 1305<sup>+</sup> Business Computer Applications 3

**Total Hours** **7**

##### **Spring Semester**

##### *Term 1*

ITCC 1444 CCNA 2: Switching, Routing, and Wireless Essentials 4

##### *Term 2*

ITCC 2420 CCNA 3: Enterprise Networking, Security and Administration 4

**Total Hours** **8**

**Total Hours for Certificate** **15**

<sup>+</sup>BCIS 1305 is for Electronics Technology majors. ITSC 1305 is for Network Administration majors.



## **Networking - Cybersecurity Specialization Level 1 Certificate**

The Cybersecurity Level 1 Certificate prepares students for jobs in the field of cybersecurity. Students in this program learn core knowledge of a networking cyber security role and the risks and effects of cybercrime on individuals and organizations. Students gain an understanding of routine protective methods used to maintain cyber security, including principles of vulnerability, penetration testing, and user access control. This certificate can be stacked, and earned credits can be applied toward the Associate of Applied Science in Network Administration.



### **Program Learning Outcomes (PLO):**

After completing the Networking - Cybersecurity Specialization Level 1 Certificate, students will be able to:

PLO 1: Assemble networking devices to include hardware and operating system software.

PLO 2: Safeguard network devices, protocols, and services.

PLO 3: Appraise network performance to improve the reliability of network services. (Not Assessed)

PLO 4: Synthesize data for systematization of network services.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
Courses	PLO 1	PLO 2	PLO 3	PLO 4
ITCC 1414	X			
ITSY 1342		X		
ITSY 2430			X	
ITCC 2343				X

### **Recommended Course Sequence:**

#### **First Year**

#### **Fall Semester**

##### *Full Term*

ITCC 1414 CCNA 1: Introduction to Networks

4

##### *Term 1*

ITSC 1316 Linux Installation and Configuration

3

##### *Term 2*

ITSC 1305 Introduction to PC Operating Systems

3

**Total Hours**

**10**

**Spring Semester**

*Term 1*

ITCC 2343 Network Security 3

ITSY 1342 Information Technology Security 3

*Term 2*

ITSY 2430 Intrusion Detection 4

**Total Hours 10**

**Total Hours for Certificate 20**

## ***Associate of Applied Science in Software Development\****

\*Pending SACSCOC approval.

The Angelina College Software Development Programs prepare students to create, design, program, deploy, and support software. Students receive hands-on training and have the opportunity to develop programming skills. The courses in this degree are intended to prepare students for employment in software development careers, such as a coder, developer, application developer, computer programmer, and software developer.

### **Program Learning Outcomes (PLOs):**

After completing the AAS in Software Development degree, students will be able to:

PLO 1: Justify software development lifecycle decisions.

PLO 2: Apply collaborative communication skills in software development.

PLO 3: Implement continuous software development strategies.

PLO 4: Explain the purpose of various programming paradigms.

PLO 5: Apply practical usage of programming paradigms.

PLO 6: Demonstrate knowledge of industry-standard principles and practices in software development.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>						
<b>Courses</b>	<b>PLO 1</b>	<b>PLO 2</b>	<b>PLO 3</b>	<b>PLO 4</b>	<b>PLO 5</b>	<b>PLO 6</b>
ITSE 1311				X		
ITSE 1329	X					
ITSE 2309		X				
INEW 2338					X	
ITSE 2343						X
ITSE 2302			X			

### **Recommended Course Sequence:**

#### **First Year**

##### **Fall Semester**

##### **Credit Hours**

ITSC 1305	Introduction to PC Operating Systems	3
ITSE 1311	Beginning Web Programming	3
STSU 0300	Student Success	0
ITSE 1329	Programming Logic and Design	3
ITSE 2317	Java Programming	3
MATH 13xx	Core Mathematics	3
	Choose from MATH 1314, 1324, 1332, or 1342	
	<b>Total Hours</b>	<b>15</b>

##### **Spring Semester**

ITSE	1359	Introduction to Scripting Languages	3
ITSE	2309	Database Programming	3
ITSY	1300	Fundamentals of Information Security	3
ITSY	1342	Information Technology Security	3
INEW	2338	Advanced Java Programming	3
<b>Total Hours</b>			<b>15</b>
<b>Summer Semester</b>			
ENGL	1301	Composition I	3
XXXX	x3xx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 1310	3
<b>Total Hours</b>			<b>6</b>
<b>Second Year</b>			
<b>Fall Semester</b>			
ITSE	1307	Introduction to C++ Programming	3
ITSE	2345	Data Structures	3
ITSE	2343	Advanced Mobile Programming	3
SPCH	1318	Interpersonal Communication	3
<b>Total Hours</b>			<b>12</b>
<b>Spring Semester</b>			
ITSE	2386	Internship - Computer Programming/Programmer, General or INEW 2332 Comprehensive Software Project: Coding, Testing, and Implementation	3
CPMT	1343	Microcomputer Architecture	3
ITSE	2302	Intermediate Web Programming	3
SOCI	1301	Introduction to Sociology or PSYC 2301 General Psychology	3
<b>Total Hours</b>			<b>12</b>
<b>Total Hours for Degree</b>			<b>60</b>

Note: Capstone course is INEW 2332 Internship - Computer Programming/Programmer, General or INEW 2332 Comprehensive Software Project: Coding, Texting, and Implementation

Technical Math courses (TECM) do not satisfy the core general education Life & Physical Science/Mathematics requirement

## CRIMINAL JUSTICE

The Angelina College Criminal Justice Programs prepare students to serve the community in criminal justice agencies, including: federal, state, county, law enforcement, probation, courts, corrections, parole, and related agencies. Students pursuing a degree or credential in criminal justice should be willing to meet the standards required of such a career. The majority of criminal justice agencies require sound academic preparation, integrity, physical agility, and a record free of felonies or excessive traffic offenses.

### Criminal Justice Field of Study

Senate Bill 148 of the 75th Texas Legislature (1997) mandated Field of Study curricula. The Field of Study curricula, along with core curricula, are intended to facilitate transferability of courses among Texas public colleges and universities. All public four-year institutions are required to accept Coordinating Board approved Field of Study courses in fulfillment of lower-division requirements for bachelor's degrees in majors that correspond to the Field of Study.

The Field of Study for Criminal Justice is designed for students seeking the Bachelor of Arts or Bachelor of Science degree with a major in Criminal Justice. The revised Field of Study for Criminal Justice was approved by the Texas Higher Education Coordinating Board in July 2023. Completion of the Field of Study hours will qualify the student for a certificate and the courses may be transferred as a block to the transfer institution. Students who complete the Texas Core Curriculum and Field of Study at any public two-year institution automatically qualify to receive an associate degree.

View the Criminal Justice pathway at <https://www.angelina.edu/pathways/>

#### Designated Core Course in the Field of Study

CRIJ 1301 Introduction to Criminal Justice

**Semester Credit Hours: 3**

#### Discipline Foundation Courses

CRIJ 1306 Court Systems & Practices

CRIJ 1310 Fundamentals of Criminal Law

CRIJ 2313 Correctional Systems and Practices

CRIJ 2328 Police Systems & Practices

**Semester Credit Hours: 12**

#### Directed Electives (2 Courses)

Directed Electives are determined by the target transfer institution. Contact an advisor for Field of Study Directed Elective options for specific four-year institutions.

**Semester Credit Hours: 6**

#### Remaining Core Curriculum Courses

Select courses from the Core Curriculum in addition to CRIJ 1301. Students should visit with an advisor regarding transfer to a specific four-year institution.

**Semester Credit Hours: 39**

**Total Associate Degree Credit Hours: 60**



SOCI	1301	Intoduction to Sociology <b>or</b>	
	PSYC	2301 General Psychology	3
GOVT	2305	Federal Government	3
STSU	0300	Student Success	0
<b>Total Hours</b>			<b>15</b>

**Second Semester**

CRIJ	1306+	Court Systems & Practices	3
CRIJ	2314	Criminal Investigations	3
MATH	13xx	Core Mathematics	
		Choose from MATH 1314, 1324, 1332, <b>or</b> 1342	3
XXXX	x3xx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, <b>or</b> MUSI 1310	3
HIST	1301	U.S. History I	3
<b>Total Hours</b>			<b>15</b>

**Second Year**

**First Semester**

SPCH	1318	Interpersonal Communication	3
XXXX	x3xx	Life & Physical Sciences Core	
		Choose from Biology, Chemistry, or Physics	3
GOVT	2306	Texas Government	3
CRIJ	2313 +	Correctional Systems & Practices	3
CRIJ	x3xx <sup>++</sup>	Field of Study Directed Elective	3
<b>Total Hours</b>			<b>15</b>

**Second Semester**

ENGL	1302	Composition II	3
HIST	1302	U.S. History II	3
CRIJ	2328 +	Police Systems & Practices	3
CRIJ	x3xx <sup>++</sup>	Field of Study Directed Elective	3
ENGL	23xx	Language, Philosophy, and Culture Core	3
<b>Total Hours</b>			<b>15</b>
<b>Total Hours for Degree</b>			<b>60</b>

+ Denotes courses included in the Criminal Justice Field of Study.

++ Directed electives are determined by the target transfer institution. Contact an advisor for Field of Study Directed Elective options for specific four-year institutions.

Students should visit with an advisor regarding transfer to a specific college or university.





## LAW ENFORCEMENT

### ***Associate of Applied Science in Law Enforcement Technology***

The Angelina College Law Enforcement Technology Program is designed for students interested in pursuing a career in law enforcement, corrections, and the court system. Students are provided with targeted training to enhance their professional opportunities with local, county, and state agencies. The program combines classroom instruction with real-world experience. This degree includes training leading to licensure as a peace officer. Students who have a current basic peace officer license from an accredited academy within the state of Texas and have successfully passed the state licensure test through the Texas Commission on Law Enforcement (TCOLE) can receive 23 credit hours towards the Associate of Applied Science in Law Enforcement Technology. This program prepares students for direct entry into positions available in the criminal justice profession. Students may also choose to transfer to one of many colleges and universities that offer the Bachelor of Applied Sciences in Criminal Justice. Students must meet TCOLE requirements for program admission. For more information, contact [policeacademy@angelina.edu](mailto:policeacademy@angelina.edu).

### **Program Learning Outcomes (PLOs)**

After completing the AAS in Law Enforcement Technology, students will be able to:

PLO 1: Apply the Texas Penal Code to real-time practical scenarios.

PLO 2: Demonstrate the legality of police authority in live scenarios.

PLO 3: Demonstrate practical Crime Scene Investigation techniques, such as lifting latent fingerprints at a crime scene.

PLO 4: Articulate an understanding of arrest, search and seizure, and the importance of citizen rights.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
<b>Courses</b>	<b>PLO 1</b>	<b>PLO 2</b>	<b>PLO 3</b>	<b>PLO 4</b>
CRIJ 1307	X			
CRIJ 1310		X		
CRIJ 2314			X	
CRIJ 1306				X

### **Recommended Course Sequence:**

#### **First Year**

#### **First Semester**

#### **Credit Hours**

ENGL	1301	Composition I	3
SOCI	1301	Introduction to Sociology <b>or</b>	
	PSYC	2301 General Psychology	3
CRIJ	1301 <sup>+</sup>	Introduction to Criminal Justice	3
CRIJ	1310 <sup>+</sup>	Fundamentals of Criminal Law	3
STSU	0300	Student Success	0

**Total Hours      12**

**Second Semester**

CRIJ	1306 <sup>+</sup>	Court Systems & Practices	3
CRIJ	2314	Criminal Investigation	3
MATH	13xx	Core Mathematics	
		Choose from MATH 1314, 1324, 1332, <b>or</b> 1342	3
XXXX	x3xx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, <b>or</b> MUSI 1310	3

**Total Hours      12**

**Second Year**

**First Semester**

SPCH	1318	Interpersonal Communication	3
CRIJ	2313 <sup>+</sup>	Correctional Systems & Practices	3
CRIJ	1307	Crime in America	3
XXXX	x4xx	Life & Physical Sciences Core	
		Choose from Biology, Chemistry, or Physics	4

**Total Hours      13**

**Second Semester**

CJLE	1506	Basic Peace Officer I	5
CJLE	1512	Basic Peace Officer II	5
CJLE	1518	Basic Peace Officer III	5
CJLE	1524	Basic Peace Officer IV	5
CJLE	1529	Basic Peace Officer V	3

**Total Hours      23**

**Total Hours for Degree      60**

## **Level 1 Certificate in Law Enforcement - Academy** (Beginning January 2025)

Angelina College was issued a license to operate a law enforcement academy in 12 East Texas counties in September 1993 by the Texas Commission on Law Enforcement (TCOLE). The purpose of the Angelina College Law Enforcement Academy Level 1 Certificate is to prepare prospective law enforcement officers for the TCOLE Certification Exam by completing 736 hours of the Basic Peace Officer (BPOC) courses. Students who successfully complete the BPOC will earn a Level 1 Certificate and will be able to sit for the TCOLE Basic Peace Officer State Exam. In addition, upon successful completion, the student may apply the Law Enforcement Academy Level 1 Certificate towards the Associate of Applied Science in Law Enforcement Technology. The Academy also offers TCOLE in-service courses throughout Deep East Texas for the purpose of enhancing the Peace Officers' level of proficiency and meeting training requirements.

To be admitted, a prospective student must:

- Attend an information session to obtain a program application and information packet.
- Comply with the minimum standards for enrollment by the Texas Commission on Law Enforcements (TCOLE rule 217.1) as well as specific Academy entrance rules concerning misrepresentation, omission, or other disqualifying moral character habits and initial licensure to include:
  - Student must successfully pass a FAST Criminal History Check
  - Complete a Personal History Statement
  - Be physically sound for the performance of duty appropriate to the type of license sought
  - Submit Physician, psychological and Drug Screening results (TCOLE L-2 & L-3 Forms)
  - Undergo an FBI fingerprinting and background investigation.
- Submit a completed application packet by the specified due date received at the information session.
- The Level I Certificate is Texas Success Initiative (TSI)-waived (reading, writing, and math placement); however, individuals are encouraged to take the TSI Assessment and, if necessary, enroll in the appropriate developmental education courses in preparation to continue to the Associate of Applied Science (A.A.S.) in Law Enforcement Technology.

### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in Law Enforcement Academy, students will be able to:

PLO1: Apply the Texas Penal Code to real-time scenarios.

PLO2: Articulate an understanding of arrest, search and seizure, and the importance of citizen rights.

PLO3: Use self-defense techniques and articulate the contrast between tactics and de-escalation techniques.

Courses Measuring the Achievement of Program Learning Outcomes			
Courses	PLO 1	PLO 2	PLO 3
CJLE 1329	X		
CJLE 1329		X	
CJLE 1329			X

**Recommended Course Sequence:**

**First Year**

**First Semester**

		<b>Credit Hours</b>
CJLE 1506	Basic Peace Officer I	5
CJLE 1512	Basic Peace Officer II	5
CJLE 1518	Basic Peace Officer III	5
CJLE 1524	Basic Peace Officer IV	5
CJLE 1329	Basic Peace Officer V	3
	<b>Total Hours</b>	<b>23</b>
	<b>Total Hours for Certificate</b>	<b>23</b>

## DRAFTING AND DESIGN TECHNOLOGY

### *Associate of Applied Science in Drafting and Design Technology*

The drafter is a technician who correlates work between the design and production departments of industry. The drafter's chief function is to prepare working drawings from sketches, written specifications, or field notes furnished by an engineer. The drawings will enable tradespersons and operatives to produce a finished manufactured product or complete a construction project. This program provides manual and computer-aided drafting experience supplemented with related technical information. Graduates are qualified for entry-level technician positions in drafting.

#### Program Learning Outcomes (PLOs)

After completing the AAS in Drafting and Design Technology degree, students will be able to:

PLO 1: Analyze and interpret survey field notes to generate a civil drawing.

PLO 2: Analyze and interpret survey data to generate a topographical drawing.

PLO 3: Develop mechanical drawings, including assembly, detail, and pictorial drawings.

PLO 4: Interpret terms used to identify dimensions of two mating parts, and draw details, assemblies, and interpret thread notes.

PLO 5: Identify components of structural systems and use reference materials, including concrete foundations and frames, wood framing and trusses, and structural steel framing systems.

Courses Measuring the Achievement of Program Learning Outcomes					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
DFTG 1430	X				
DFTG 2421		X			
DFTG 1433			X		
DFTG 2402				X	
ARCE 1452					X

#### Recommended Course Sequence:

##### First Year

##### First Semester

			Credit Hours
DFTG	1409	Basic Computer-Aided Drafting	4
DFTG	1405	Introduction to Technical Drafting	4
ENGL	1301	Composition	3
DFTG	1325	Blueprint Reading and Sketching	3
STSU	0300	Student Success*	0

**Total Hours      14**

##### Second Semester

TECM	1301	Industrial Mathematics	3
DFTG	1417	Architectural Drafting - Residential	4
DFTG	1433	Mechanical Drafting	4
DFTG	1430	Civil Drafting I	4
<b>Total Hours</b>			<b>15</b>

**Second Year**

**First Semester**

XXXX	x3xx	Elective	3
PHYS	1305	Elementary Physics	3
DFTG	2402	Machine Drafting	4
DFTG	2421	Topographical Drafting	4
XXXX	x3xx	Creative Arts Core	
		Choose from ARTS 1301, MUSI 1306, MUSI 1310, or DRAM 1310	3
<b>Total Hours</b>			<b>17</b>

**Second Semester**

ARCE	2452	Mechanical & Electrical Systems	4
ARCE	1452*	Structural Drafting	4
SPCH	1318	Interpersonal Communication or	
		SPCH 1315 Public Speaking	3
SOCI	1301	Introduction to Sociology or	
		PSYC 2301 General Psychology	3
<b>Total Hours</b>			<b>14</b>
<b>Total Hours for Degree</b>			<b>60</b>

\*Capstone Course: ARCE 1452-Structural Drafting or DFTG 2486-Internship (Drafting and Design Technology)

Notes: DFTG 2486- Internship (Drafting and Design Technology) may be substituted for any third or fourth-semester drafting course (DFTG or ARCE)

Technical Math courses (TECM) do not satisfy the core general education Life & Physical Science/Mathematics requirement.



## DIESEL TECHNOLOGY

### *Associate of Applied Science in Diesel Technology*

The purpose of the Diesel Technology Program is to educate and prepare students for entry into various diesel technician positions within the diesel industry. The course of study in this program enables students to develop, refine, and enhance diesel technology skills. Students enrolled in the Diesel Technology Program will receive training and education relative to current industry standards. The students will also benefit from the opportunity to gain real-world experience through a cooperative education course with various local industries, which include Local, State, and Federal entities.

#### Program Learning Outcomes (PLOs)

After completing the AAS in Diesel Technology degree, students will be able to:

PLO 1: Demonstrate their ability to adjust engine valve clearance.

PLO 2: Demonstrate their ability to correctly identify diesel fuel system components.

PLO 3: Demonstrate their ability to correctly identify diesel engine components.

PLO 4: Demonstrate their shop safety skills.

PLO 5: Demonstrate their ability to utilize a digital multimeter.

Courses Measuring the Achievement of Program Learning Outcomes					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
DEMR 1405					X
DEMR 1406	X		X		
DEMR 1301				X	
DEMR 1413		X			

#### Recommended Course Sequence:

##### First Year

##### First Semester

			Credit Hours
DEMR	1301	Shop Safety and Procedures	3
DEMR	1405	Basic Electrical Systems	4
DEMR	1406	Diesel Engine I	4
DEMR	1413	Fuel Systems	4
STSU	0300	Student Success	0
<b>Total Hours</b>			<b>15</b>



**Second Semester**

DEMR	1410	Diesel Engine Testing and Repair I	4
DEMR	1442	Power Train Applications I	4
DEMR	1449	Diesel Engine II	4
DEMR	2432	Electronic Controls	4
<b>Total Hours</b>			<b>16</b>

**Summer**

DEMR	1416	Basic Hydraulics	4
DEMR	2412*	Diesel Engine Testing and Repair II <b>or</b>	
	DEMR	2480* Cooperative Education	4
<b>Total Hours</b>			<b>8</b>

**Second Year****First Semester**

POFI	1301	Computer Applications I	3
HRPO	2301	Human Resources Management <b>or</b>	
	BUSG	2309 Small Business Management	3
MATH	1332	Contemporary Mathematics <b>or</b>	
	MATH	1314 College Algebra <b>or</b> PHYS 1305 Elementary Physics	3
<b>Total Hours</b>			<b>9</b>

**Second Semester**

ENGL	1301	Composition I	3
SOCI	1301	Introduction to Sociology	3
SPCH	1318	Interpersonal Communication	3
XXXX	13xx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, <b>or</b> MUSI 1310	3
<b>Total Hours</b>			<b>12</b>
<b>Total Hours for Degree</b>			<b>60</b>

\*Capstone: DEMR 2412 - Diesel Engine Testing and Repair II **or** \*DEM 2480 - Cooperative Education

## **Level 1 Certificate in Diesel Technology – Basic**

### **Program Learning Outcomes (PLOs)**



This certificate stacks  
into the corresponding  
AAS degree

After completing the Level 1 Certificate in Diesel Technology - Basic, students will be able to:

PLO 1: Demonstrate their ability to adjust engine valve clearance.

PLO 2: Demonstrate their ability to correctly identify diesel fuel system components.

PLO 3: Demonstrate their ability to correctly identify diesel engine components.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>			
Courses	PLO 1	PLO 2	PLO 3
DEMR 1406	X		X
DEMR 1413		X	

### **Recommended Course Sequence:**

#### **First Year**

##### **First Semester**

DEMR 1406 Diesel Engine I  
DEMR 1413 Fuel Systems

**Total Hours**

##### **Credit Hours**

4  
4  
**8**

##### **Second Semester**

DEMR 1442 Power Train Applications I  
DEMR 1449 Diesel Engine II

**Total Hours**

**Total Hours for Certificate**

4  
4  
**8**  
**16**

## Level 1 Certificate in Diesel Technology

### Program Learning Outcomes (PLOs)



This certificate stacks  
into the corresponding  
AAS degree

After completing the Level 1 Certificate in Diesel Technology, students will be able to:

PLO 1: Demonstrate their ability to adjust engine valve clearance.

PLO 2: Demonstrate their ability to correctly identify diesel fuel system components.

PLO 3: Demonstrate their ability to correctly identify diesel engine components.

PLO 4: Demonstrate their shop safety skills.

PLO 5: Demonstrate their ability to utilize a digital multimeter.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
Courses	PLO 1	PLO 2	PLO 3	PLO 4
DEMR 1405				
DEMR 1406	X		X	
DEMR 1301				X
DEMR 1413		X		

### Recommended Course Sequence:

#### First Year

##### First Semester

		Credit Hours
DEMR 1301	Shop Safety and Procedures	3
DEMR 1405	Basic Electrical Systems	4
DEMR 1406	Diesel Engine I	4
DEMR 1413	Fuel Systems	4
	<b>Total Hours</b>	<b>15</b>

##### Second Semester

DEMR 1410	Diesel Engine Testing and Repair I	4
DEMR 1442	Power Train Applications I	4
DEMR 1449	Diesel Engine II	4
DEMR 2432	Electronic Controls	4
	<b>Total Hours</b>	<b>16</b>

##### Summer Semester

DEMR 1416	Basic Hydraulics	4
DEMR 2412*	Diesel Engine Testing and Repair II or	
DEMR 2480*	Cooperative Education	4
	<b>Total Hours</b>	<b>8</b>
	<b>Total Hours for Certificate</b>	<b>39</b>

\*Capstone: DEMR 2412 - Diesel Engine Testing and Repair II or \*DEMR 2480 - Cooperative Education

## **ELECTROMECHANICAL TECHNOLOGY**

### ***Associate in Applied Science in Electromechanical Technology - Electrical Technician Specialty***

Electromechanical technology is a diverse area of study that combines electrical and mechanical systems used in all areas of industry. Mechanical systems include power transmission, fluid power systems (hydraulics and pneumatics), and material handling. Electrical systems include power generation and distribution, machinery controls, and process industries. Process industries include chemical and petroleum refining and production.

Also included in this area of study is the specialty of HVAC. Contractors employ heating, ventilation, and air conditioning technicians to install and maintain essential environmental controls in business and residential settings.

Employment opportunities for all graduates are diverse and are available locally and nationwide. Projected growth trends across the State show increasing demand for graduates with these job skills.

#### **Program Learning Outcomes (PLOs)**

After completing the AAS in Electromechanical Technology-Electrical Technician Specialty degree, students will be able to:

PLO 1: Apply analytical skills to calculate and measure operating parameters in a given electrical circuit.

PLO 2: Analyze a workplace setting and develop a job safety analysis.

PLO 3: Analyze a typical residential setting and install a lighting branch circuit that meets all wiring code requirements.

PLO 4: Analyze a typical commercial setting and install a commercial branch circuit that meets all wiring code requirements.

PLO 5: Analyze a control circuit, sketch a circuit diagram, and properly connect the components.

PLO 6: Utilize common statistical process control techniques to optimize manufacturing processes.

Courses Measuring the Achievement of Program Learning Outcomes						
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
ELPT 1411	X					
ELPT 1321		X				
ELPT 1429			X			
ELPT 1445				X		
ELPT 1441					X	
ELPT 2449						X

### Recommended Course Sequence:

#### First Year

##### First Semester

		Credit Hours
ELPT	1321 Introduction to Electrical Safety and Tools	3
ELPT	1411 Basic Electrical Theory	4
ELPT	1441 Motor Control	4
TECM	1301* Industrial Mathematics	3
SOCI	1301 Introduction to Sociology	3
<b>Total Hours</b>		<b>17</b>

##### Second Semester

ELPT	1429 Residential Wiring	4
ELPT	1445 Commercial Wiring	4
DFTG	1325 Blueprint Reading and Sketching	3
ELPT	2319 Programmable Logic Controllers I	3
<b>Total Hours</b>		<b>14</b>

#### Second Year

##### First Semester

SPCH	1318 Interpersonal Communication	3
ENGL	1301 Composition	3
ELPT	2355 Programmable Logic Controllers II	3
ELPT	2331 AC/DC Drives	3
PHYS	1305 Elementary Physics	3
<b>Total Hours</b>		<b>15</b>

##### Second Semester

HYDR	1409 Basic Fluid Power (Hydraulics)	4
ELPT	2449 Industrial Automation	4
ENTC	2310 Machine Design or	

ELMT	2381	Cooperative Education	3
XXXX	x3xx	Creative Arts Core	
		Choose from MUSI 1306, MUSI 1310, ARTS 1301, or DRAM 1310	3
		<b>Total Hours</b>	<b>14</b>
		<b>Total Hours for Degree</b>	<b>60</b>

Capstone Course: ELPT 2449 (Industrial Automation)

\*Technical Math courses (TECM) do not satisfy the core general education Natural Science/Mathematics requirement.

### ***Level 1 Certificate in Electromechanical Technology – Electrician Specialty***

#### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in Electromechanical Technology-Electrician Specialty, students will be able to:

PLO 1: Apply analytical skills to calculate and measure operating parameters in a given electrical circuit.

PLO 2: Analyze a workplace setting and develop a job safety analysis.

PLO 3: Analyze a typical residential setting and install a lighting branch circuit that meets all wiring code requirements.

PLO 4: Analyze a typical commercial setting and install a commercial branch circuit that meets all wiring code requirements.

PLO 5: Analyze a control circuit, sketch a circuit diagram, and properly connect the components.



<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
ELPT 1411	X				
ELPT 1321		X			
ELPT 1429			X		
ELPT 1445				X	
ELPT 1441					X

#### **Recommended Course Sequence:**

<b>First Semester</b>			<b>Credit Hours</b>
ELPT	1411	Basic Electrical Theory	4
ELPT	1321	Intro to Electrical Safety and Tools	3
ELPT	1441	Motor Control	4

ELPT	1429	Residential Wiring	4
			<b>Total Hours</b>
			<b>15</b>
<b>Second Semester</b>			
ELPT	1445	Commercial Wiring	4
TECM	1301*	Industrial Mathematics	3
DFTG	1325	Blueprint Reading and Sketching	3
ELMT	2381	Cooperative Education <b>or</b>	
	ELPT	2319 Programmable Logic Controllers I	3
			<b>Total Hours</b>
			<b>13</b>
			<b>Total Hours for Certificate</b>
			<b>28</b>

Capstone Course: ELPT 1445 (Commercial Wiring)

\*Technical Math courses (TECM) do not satisfy the core general education Natural Science/Mathematics requirement.

View the Electromechanical Technology pathway at [www.angelina.edu/business-technology-pathways](http://www.angelina.edu/business-technology-pathways).

### ***Level 1 Certificate in Electromechanical Technology Maintenance Technician Specialty***

This Level 1 certificate is appropriate for students with related industry experience. This degree option is not recommended for students just beginning their studies. Students should consult an advisor to determine which certificate is appropriate for their career goals.



This certificate stacks into the corresponding AAS degree

#### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in Electromechanical Technology-Maintenance Technician Specialty, students will be able to:

PLO 1: Apply analytical skills to calculate and measure operating parameters in a given electrical circuit.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>	
<b>Courses</b>	<b>PLO 1</b>
ELPT 1411	X

#### **Recommended Course Sequence:**

##### **First Year**

##### **First Semester**

TECM	1301	Industrial Mathematics	3
ELPT	1411	Basic Electrical Theory	4
HYDR	1415	Basic Fluid Power II (Pneumatics)	4
			<b>Total Hours</b>
			<b>11</b>

**Second Semester**

XXXX	x4xx *	Electromechanical Elective	4
XXXX	xxx*	Electromechanical Elective	3-4
		<b>Total Hours</b>	<b>7-8</b>
		<b>Total Hours for Certificate</b>	<b>18-19</b>

Technical Math Course (TECM) does not satisfy the core general education Natural Science/Mathematics requirement.

**Elective Options:**

- ELPT 1441 – Motor Controls
- ELPT 1445 – Commercial Wiring
- ELPT 2319 – Programmable Logic Controllers 1
- ENTC 2310 – Machine Design
- MCHN 1438 – Machining 1
- WLDG 1428 – Intro to Shielded Metal Arc Welding



## ELECTRONICS TECHNOLOGY

### *Associate of Applied Science in Electronics Technology*

Electronics technicians are employed in many business sectors, including forest products, defense, medical, communications, and government. Technician's jobs include medical equipment maintenance, plant maintenance, aircraft maintenance, manufacturing, automotive, and research. Networking technicians trained in electronics serve in a wide range of jobs. Training for electronic technicians must include mathematics, science, computer maintenance, networking, and basic and advanced electronic theories.

The curriculum provides a career path sequence of courses and awards that build upon each other. All courses in the level one certificate are also applicable to the degree.

#### **Program Learning Outcomes (PLOs)**

After completing the AAS in Electronics Technology degree, students will be able to:

PLO 1: Analyze and test an electronic circuit to identify operating parameters.

PLO 2: Construct various control systems using digital logic and interface circuitry.

PLO 3: Develop a digital control system using a combination of programmable and application-specific integrated circuits.

PLO 4: Construct a functional electronic system prototype using various fabrication methods, including printed circuit boards, wire wrapping, breadboarding, and soldering techniques.

PLO 5: Set up microcomputer systems and adapter/interface boards in a virtual lab environment.

Courses Measuring the Achievement of Program Learning Outcomes					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
CETT 1409	X				
CETT 1425		X			
CETT 1449			X		
CETT 1321				X	
CPMT 1311					X

#### **Recommended Course Sequence:**

##### **First Year**

##### **First Semester**

			Credit Hours
STSU	0300	Student Success	0
CETT	1409	DC-AC Circuits	4
CPMT	1311	Introduction to Computer Maintenance	3
CETT	1425	Digital Fundamentals	4
CETT	1304	High-Reliability Soldering	3

POFI	1301	Computer Applications I or	
	BCIS 1305	Business Computer Applications	3
			<b>Total Hours</b>
			<b>17</b>
<b>Second Semester</b>			
TECM	1301	Industrial Mathematics	3
CPMT	2350	Industry Certification Preparation	3
CETT	1449	Digital Systems	4
CETT	1321	Electronic Fabrication	3
ITCC	1414	CCNA 1: Introduction to Networks	4
			<b>Total Hours</b>
			<b>17</b>
<b>Second Year</b>			
<b>First Semester</b>			
ENGL	1301	Composition	3
SOCI	1301	Introduction to Sociology	3
SPCH	1318	Interpersonal Communication	3
ITCC	1444	CCNA 2: Switching, Routing, and Wireless Essentials	4
			<b>Total Hours</b>
			<b>13</b>
<b>Second Semester</b>			
PHYS	1305	Elementary Physics	3
LOTT	1301	Introduction to Fiber Optics	3
ITCC	2420	CCNA 3: Enterprise Networking, Security, and Automation	4
XXXX	x3xx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 1310	3
			<b>Total Hours</b>
			<b>13</b>
			<b>Total Hours for Degree</b>
			<b>60</b>

Capstone Course: ITCC 2420 – CCNA 3: Enterprise Networking, Security, and Automation  
 Technical Math courses (TECM) do not satisfy the core general education Life & Physical Science/Mathematics requirement.

## **Level 1 Certificate in Electronics Technology – Electronics Assembler**

Electronics technicians are employed in many business sectors, including manufacturing, calibration services, defense contractors, networking, and government. Technician's jobs include installing, maintaining, and calibrating various electronic and communication systems. Network technicians install and troubleshoot wired and wireless networking systems. Computer maintenance technicians maintain and restore home, office, and enterprise computing systems. Courses for electronic technicians will focus on soldering and assembly of electronic systems, programming, and networking.



### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in Electronics Technology, students will be able to:

PLO 1: Analyze and test an electronic circuit to identify operating parameters.

PLO 2: Construct various control systems using digital logic and interface circuitry.

PLO 3: Develop a digital control system using a combination of programmable and application-specific integrated circuits.

PLO 4: Construct a functional electronic system prototype using various fabrication methods, including printed circuit boards, wire wrapping, breadboarding, and soldering techniques.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
Courses	PLO 1	PLO 2	PLO 3	PLO 4
CETT 1409	X			
CETT 1425		X		
CETT 1449			X	
CETT 1321				X

### **Recommended Course Sequence:**

					<b>Credit Hours</b>
<b>First Semester</b>					
CETT	1409	DC-AC Circuits			4
CETT	1425	Digital Fundamentals			4
CETT	1304	High-Reliability Soldering			3
			<b>Total Hours</b>		<b>11</b>
<b>Second Semester</b>					
CETT	1321	Electronic Fabrication			3
CETT	1449	Digital Systems			4
			<b>Total Hours</b>		<b>7</b>
			<b>Total Hours for Certificate</b>		<b>18</b>

Capstone Course: CETT 1321 - Electronic Fabrication

## **Level 1 Certificate in Electronics Technology – Computer Maintenance**

### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in Electronics Technology – Computer Maintenance, students will be able to:

PLO 1: Analyze and test an electronic circuit to identify operating parameters.

PLO 2: Construct various control systems using digital logic and interface circuitry.

PLO 3: Set up microcomputer systems and adapter/interface boards in a virtual lab environment.



This certificate stacks  
into the corresponding  
AAS degree

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>			
Courses	PLO 1	PLO 2	PLO 3
CETT 1409	X		
CETT 1425		X	
CPMT 1311			X

### **Recommended Course Sequence:**

#### **First Semester**

			<b>Credit Hours</b>
CPMT	1311	Introduction to Computer Maintenance	3
CETT	1409	DC-AC Circuits	4
POFI	1301	Computer Applications I <b>or</b>	
	BCIS	1305 Business Computer Applications	3
<b>Total Hours</b>			<b>10</b>

#### **Second Semester**

TECM	1301	Industrial Mathematics	3
CETT	1425	Digital Fundamentals	4
CPMT	2350	Industry Certification Preparation	3
<b>Total Hours</b>			<b>10</b>
<b>Total Hours for Certificate</b>			<b>20</b>

Capstone Course: CETT 1425 Digital Fundamentals

## MACHINE TOOL TECHNOLOGY

### *Associate of Applied Science in Machine Tool Technology*

The Machine Tool Technology program provides training for entry-level positions in precision metalworking careers. Manual and computer numerically controlled (CNC) machines are used to develop trainee skills. The students will learn to operate lathes, mills, engine lathes, surface grinders, and other precision equipment. Graduates of this program are prepared to work in machine shops, quality control, and maintenance or production.

#### Program Learning Outcomes (PLOs)

After completing the AAS in Machine Tool Technology degree, students will be able to:

PLO 1: Demonstrate their knowledge of safety with open discussion and presentation.

PLO 2: Demonstrate their knowledge of the operation of a manual lathe by the completion of the final project.

PLO 3: Demonstrate their knowledge of the operation of a manual mill by completion of the final project.

PLO 4: Write a CNC mill program; set up the mill; and machine a part based on given parameters and instructions.

PLO 5: Write a CNC lathe program; set up the lathe; and machine a part based on given parameters and instructions.

PLO 6: Write a CNC program using a CAM program on the CNC lathe and CNC mill based on given parameters and instructions.

Courses Measuring the Achievement of Program Learning Outcomes						
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
MCHN 1438	X	X	X			
MCHN 2434				X		
MCHN 2431					X	
MCHN 2438						X

#### Recommended Course Sequence:

##### First Year

##### First Semester

			Credit Hours
STSU	0300	Student Success	0
MCHN	2431	Operation of CNC Turning Centers	4
ENGL	1301	Composition	3
TECM	1301	Industrial Mathematics	3
MCHN	1438	Machining I	4

		<b>Total Hours</b>	<b>14</b>
<b>Second Semester</b>			
MCHN	1441	Basic Machine Shop II	4
MCHN	1190	Special Topics in Machine Shop Assistant	1
WLDG	1337	Introduction to Welding Metallurgy <b>or</b> DFTG 1325 Blueprint reading and sketching	3
SOCI	1301	Introduction to Sociology	3
MCHN	2434	Operations of CNC Machining Centers	4
		<b>Total Hours</b>	<b>15</b>
<b>Second Year</b>			
<b>First Semester</b>			
WLDG	1428	Intro to Shielded Metal Arc Welding <b>or</b> DFTG 1409 Basic Computer-Aided Drafting	4
SPCH	1318	Interpersonal Communication	3
MCHN	1191	Special Topics in Machinist/Machine Technologist	1
MCHN	1452	Intermediate Machining I	4
XXXX	x3xx	Creative Arts Core Choose from ARTS 1301, DRAM 1310, MUSI 1306, <b>or</b> MUSI 1310	3
		<b>Total Hours</b>	<b>15</b>
<b>Second Semester</b>			
PHYS	1305	Elementary Physics	3
MCHN	1426	Introduction to Computer-Aided Manufacturing (CAM)	4
MCHN	2438	Advanced Computer-Aided Manufacturing (CAM)	4
MCHN	1191	Special Topics in Machinist/Machine Technologist	1
MCHN	1454	Intermediate Machining II	4
		<b>Total Hours</b>	<b>16</b>
		<b>Total Hours for Degree</b>	<b>60</b>

Capstone Course: MCHN 2438 Advanced Computer-Aided Manufacturing (CAM)

## **Level 1 Certificate in Machine Tool Technology - Computer Numerical Control Machine Operator**

### **Program Learning Outcomes (PLOs)**



This certificate stacks  
into the corresponding  
AAS degree

After completing the Level 1 Certificate in Machine Tool Technology, students will be able to:

PLO 1: Demonstrate their knowledge of safety with open discussion and presentation.

PLO 2: Demonstrate their knowledge of the operation of basic manual lathe by the completion of the final project.

PLO 3: Demonstrate their knowledge of the operation of basic manual mill by completion of the final project.

PLO 4: Write a CNC mill program; set up the mill; and machine a part based on given parameters and instructions.

PLO 5: Write a CNC lathe program; set up the lathe; and machine a part based on given parameters and instructions.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
MCHN 1438	X	X	X		
MCHN 2434				X	
MCHN 2431					X

### **Recommended Course Sequence:**

#### **First Year**

##### **First Semester**

MCHN 1438	Basic Machine Shop I	4
MCHN 2431	Operation of CNC Turning Centers	4
TECM 1301	Industrial Mathematics	3
<b>Total Hours</b>		<b>11</b>

##### **Second Semester**

MCHN 2434	Operations of CNC Machining Centers	4
DFTG 1325	Blueprint Reading and Sketching <b>or</b>	
	WLDG 1337 Introduction to Welding Metallurgy	3
<b>Total Hours</b>		<b>7</b>
<b>Total Hours for Certificate</b>		<b>18</b>

Capstone Course: MCHN 2434 – Operation of CNC Machining Centers

## **Level 1 Certificate in Machine Tool Technology – Machine Tool Operator**

### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in Machine Tool Technology – Machine Tool Operator, students will be able to:

PLO 1: Demonstrate their knowledge of safety with open discussion and presentation.

PLO 2: Demonstrate their knowledge of the operation of a manual lathe by the completion of more complex skill level projects with reverse engineering involved.

PLO 3: Demonstrate their knowledge of the operation of a manual mill by the completion of more complex skill level projects with reverse engineering involved.

PLO 4: Demonstrate their knowledge of more complex measuring and inspection levels.



This certificate stacks into the corresponding AAS degree

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
Courses	PLO 1	PLO 2	PLO 3	PLO 4
MCHN 1438	X	X	X	
MCHN 2431				X

### **Recommended Course Sequence:**

<b>First Semester</b>	<b>Credit Hours</b>
MCHN 1438 Basic Machine Shop I	4
TECM 1301 Industrial Mathematics	3
MCHN 2431 Operation of CNC Machining Centers	4
<b>Total Hours</b>	<b>11</b>
<b>Second Semester</b>	
MCHN 1441 Basic Machine Shop II	4
MCHN 1190 Special Topics in Machine Shop Assistant	1
DTFG 1325 Blueprint Reading and Sketching <b>or</b> WLDG 1337 Introduction to Welding Metallurgy	3
<b>Total Hours</b>	<b>8</b>
<b>Third Semester</b>	
MCHN 1191 Special Topics in Machinist/Machine Technologist	1
MCHN 1191 Special Topics in Machinist/Machine Technologist	1
MCHN 1454 Intermediate Machining I	4
MCHN 1452 Intermediate Machining II	4
<b>Total Hours</b>	<b>10</b>
<b>Total Hours for Certificate</b>	<b>29</b>

Capstone Course: MCHN 1454 Intermediate Machining II



## PARALEGAL (LEGAL ASSISTANT)

### *Associate of Applied Science in Paralegal (Legal Assistant)*

The purpose of the Paralegal Associate of Applied Science is to prepare students for employment as a paralegal/ legal assistant, with the knowledge and skills necessary to perform legal research, drafting, investigation, record-keeping, and related administrative functions under the guidance and supervision of a licensed attorney. Students completing all course requirements and acquiring the associate degree would be eligible to apply for certification by examination from the National Association of Legal Assistants.

#### Program Learning Outcomes (PLOs)

After completing the AAS in Paralegal (Legal Assistant) degree, students will be able to:

PLO 1: Demonstrate competence in researching statutes, case law, and secondary sources of law.

PLO 2: Summarize, in writing, legal research findings, including correct legal analysis and conclusions.

PLO 3: Apply knowledge of Texas criminal law to law enforcement/prosecutorial scenarios.

PLO 4: Prepare and draft legal documents such as general pleadings, motions, and divorce petitions.

PLO 5: Demonstrate an understanding of the rules of ethics in legal contexts, particularly in regard to paralegals.

Courses Measuring the Achievement of Program Learning Outcomes					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
LGLA 1303	X				
LGLA 2331		X			
LGLA 2313			X		
LGLA 1355				X	
LGLA 1119					X

#### Recommended Course Sequence:

##### First Year

##### First Semester

			Credit Hours
STSU	0300	Student Success	0
LGLA	1307	Introduction to Law and the Legal Professions	3
LGLA	1303	Legal Research	3
LGLA	2305	Interviewing and Investigating	3
BUSI	2304	Business Report Writing and Correspondence	3
ENGL	1301	English Composition	3
<b>Total Hours</b>			<b>15</b>

**Second Semester**

LGLA	1345	Civil Litigation	3
LGLA	1119	Legal Ethics	1
LGLA	2331	Advanced Legal Research	3
SPCH	1318	Interpersonal Communications	3
MATH	x3xx	College Mathematics <b>or</b>	
	XXXX x3xx	Core Life & Physical Science Course	3
XXXX	x3xx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, <b>or</b> MUSI 1310	3
<b>Total Hours</b>			<b>16</b>

**Second Year****First Semester**

LGLA	1353	Wills, Trusts, and Probate Administration	3
LGLA	1355	Family Law	3
LGLA	1305	Legal Writing	3
LGLA	2313	Criminal Law and Procedure	3
GOVT	2305	Federal Government	3
<b>Total Hours</b>			<b>15</b>

**Second Semester**

LGLA	2371	Advanced Criminal Law and Procedure	3
LGLA	2309	Real Property	3
LGLA	2303	Torts and Personal Injury Law	3
PSYC	2301	General Psychology	3
LGLA	2266	Practicum (or Field Experience)	2
<b>Total Hours</b>			<b>14</b>
<b>Total Hours for Degree</b>			<b>60</b>

External Field Experience: LGLA 2266 Practicum

\*LGLA 1307 is a prerequisite to LGLA 2331 and a co-requisite of all other LGLA courses.

## WELDING TECHNOLOGY

### *Associate of Applied Science in Welding Technology*

This program and the accompanying certificates are designed to open job opportunities for graduates. The AAS is designed for the advanced welder and requires completion of the Basic and Intermediate certificates. It introduces students to advanced welding using SMAW and GTAW on "V" Groove pipe in advanced positions and standard joint designs.

#### Program Learning Outcomes (PLOs)

After completing the AAS in Welding Technology degree, students will be able to:

PLO 1: Know how to identify welding electrodes for all processes.

PLO 2: Apply appropriate skills to visually identify discontinuities in weld samples.

PLO 3: Know how to read a tape measure accurately to 1/16<sup>th</sup> of an inch.

PLO 4: Apply skills to weld 1G bevel plate and pass visual and destructive testing.

PLO 5: Apply critical thinking skills to fabricate and weld a project using a Print and GTAW.

Courses Measuring the Achievement of Program Learning Outcomes					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
WLDG 2413	X	X	X		
WLDG 2451					X
WLDG 2406				X	

#### Recommended Course Sequence:

##### First Year

First Semester	Credit Hours
STSU 0300 Student Success	0
WLDG 1428 Introduction to Shielded Metal Arc Welding (SMAW)	4
WLDG 1457 Intermediate Shielded Metal Arc Welding (SMAW)	4
ENGL 1301 Composition	3
WLDG 1313 Introduction to Blueprint Reading for Welders	3
<b>Total Hours</b>	<b>14</b>

**Second Semester**

WLDG	1337	Introduction to Welding Metallurgy	3
WLDG	2443	Advanced Shielded Metal Arc Welding (SMAW)	4
WLDG	2413	Intermediate Weld Using Multiple Processes	4
XXXX	x3xx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 13103	3
		<b>Total Hours</b>	<b>14</b>

**Second Year****First Semester**

WLDG	2355	Advanced Welding Metallurgy	3
WLDG	1435	Introduction to Pipe Welding	4
SPCH	1318	Interpersonal Communication	3
WLDG	2406	Intermediate Pipe Welding	4
XXXX	xxxx	Technical Elective	
		Choose any additional WLDG, MCHN, ELPT, or DEMR course	4
		<b>Total Hours</b>	<b>18</b>

**Second Semester**

WLDG	2453	Advanced Pipe Welding	4
WLDG	2451	Advanced Gas Tungsten Arc Welding (GTAW)	4
PHYS	1305	Elementary Physics	3
SOCI	1301	Introduction to Sociology	3
		<b>Total Hours</b>	<b>14</b>
		<b>Total Hours for Degree</b>	<b>60</b>

Capstone Course: WLDG 2451- Advanced Gas Tungsten Arc Welding (GTAW)

Note: Students are limited to two 4 Semester Hour Credit courses per semester without Lead Instructor approval.

## **Level 1 Certificate in Welding Technology – Basic**

This certificate is designed for the beginning welder. It introduces students to basic welding using SMAW, GMAW, and FCAW in all positions and standard joint designs. Cutting using Oxy-Fuel is also covered in this certificate. This certificate will prepare students for jobs in manufacturing and production welding.



### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in Welding Technology-Basic, students will be able to:

PLO 1: Know how to identify welding electrodes for all processes.

PLO 2: Apply appropriate skills to visually identify discontinuities in weld samples.

PLO 3: Know how to read a tape measure accurately to 1/16<sup>th</sup> of an inch.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>			
Courses	PLO 1	PLO 2	PLO 3
WLDG 2413	X	X	X

### **Recommended Course Sequence:**

<b>First Semester</b>	<b>Credit Hours</b>
WLDG 1428 Introduction to Shielded Metal Arc Welding (SMAW)	4
WLDG 1457 Intermediate Shielded Metal Arc Welding (SMAW)	4
WLDG 1313 Introduction to Blueprint Reading for Welders	3
<b>Total Hours</b>	<b>11</b>
<b>Second Semester</b>	
WLDG 2443 Advanced Shielded Metal Arc Welding (SMAW)	4
WLDG 2413 Intermediate Weld Using Multiple Processes	4
<b>Total Hours</b>	<b>8</b>
<b>Total Hours for Certificate</b>	<b>19</b>

Comments: Capstone Course: WLDG 2413 - Intermediate Weld Using Multiple Processes.

Note: Students are limited to two 4 Semester Credit Hour courses per semester without Lead Instructor approval.

## **Level 1 Certificate in Welding Technology – Intermediate**

This certificate is designed for the intermediate welder and requires completion of the Basic Certificate. It introduces students to intermediate welding using SMAW on “V” Groove plate in all positions and standard joint designs. Mechanical Cutting using Oxy-Fuel is also covered in this certificate. This certificate will prepare students for jobs in construction welding.



This certificate stacks into the corresponding AAS degree

### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in Welding Technology-Intermediate, students will be able to:

PLO 1: Know how to identify welding electrodes for all processes.

PLO 2: Apply appropriate skills to visually point out discontinuities in weld samples.

PLO 3: Know how to read a tape measure accurately to 1/16<sup>th</sup> of an inch.

PLO 4: Apply skills to weld 1G bevel plate and pass visual and destructive testing.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
Courses	PLO 1	PLO 2	PLO 3	PLO 4
WLDG 2413	X	X	X	
WLDG 2406				X

### **Recommended Course Sequence:**

#### **First Year**

##### **First Semester**

			<b>Credit Hours</b>
WLDG	1428	Introduction to Shielded Metal Arc Welding (SMAW)	4
WLDG	1457	Intermediate Shield Metal Arc Welding (SMAW)	4
WLDG	1313	Introduction to Blueprint Reading for Welders	3
<b>Total Hours</b>			<b>11</b>

##### **Second Semester**

WLDG	1337	Introduction to Welding Metallurgy	3
WLDG	2443	Advanced Shielded Metal Arc Welding (SMAW)	4
WLDG	2413	Intermediate Weld Using Multiple Processes	4
WLDG	2432	Technical Elective	
		Choose any additional WLDG, MCHN, ELPT, or DEMR course	4
<b>Total Hours</b>			<b>15</b>

**Second Year  
First Semester**

WLDG 1435	Introduction to Pipe Welding	4
WLDG 2406	Intermediate Pipe Welding	4
<b>Total Hours</b>		<b>8</b>
<b>Total Hours for Certificate</b>		<b>34</b>

Comments: Capstone Course: WLDG 2406 – Intermediate Pipe Welding.

Note: Students are limited to two 4 Semester Credit Hour courses per semester without Lead Instructor approval.

***Level 2 Certificate in Advanced Welding Technology***

This certificate is designed for the advanced welder and requires completion of the Basic and Intermediate Certificates. It introduces students to advanced welding using SMAW and GTAW on “V” Groove pipe in advanced positions and standard joint designs. Mechanical Cutting using Oxy-Fuel and plasma is also covered in this certificate. This certificate will prepare students for construction, refineries, and exotic material welding jobs.



*Students to be TSI complete before graduation.*

**Program Learning Outcomes (PLOs)**

After completing the Advanced Certificate in Welding Technology, students will be able to:

- PLO 1: Know how to identify welding electrodes for all processes.
- PLO 2: Apply appropriate skills to visually identify discontinuities in weld samples.
- PLO 3: Know how to read a tape measure accurately to 1/16<sup>th</sup> of an inch.
- PLO 4: Apply skills to weld 1G bevel plate and pass visual and destructive testing
- PLO 5: Apply critical thinking skills to fabricate and weld a project using a Print and GTAW.

Courses Measuring the Achievement of Program Learning Outcomes					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
WLDG 2413	X	X	X		
WLDG 2451					X
WLDG 2406				X	

**Recommended Course Sequence:**

**First Year**

<b>First Semester</b>			<b>Credit Hours</b>
WLDG	1428	Introduction to Shielded Metal Arc Welding (SMAW)	4
WLDG	1457	Intermediate Shielded Metal Arc Welding (SMAW)	4
WLDG	1313	Introduction to Blueprint Reading for Welders	3
<b>Total Hours</b>			<b>11</b>

**Second Semester**

WLDG	1337	Introduction to Welding Metallurgy	3
WLDG	2443	Advanced Shielded Metal Arc Welding (SMAW)	4
WLDG	2413	Intermediate Welding Using Multiple Processes	4
WLDG	2432	Technical Elective	
Choose any additional WLDG, MCHN, ELPT, or DEMR course.			4
<b>Total Hours</b>			<b>15</b>

**Second Year**

**First Semester**

WLDG	1435	Introduction to Pipe Welding	4
WLDG	2406	Intermediate Pipe Welding	4
WLDG	2355	Advanced Metallurgy	3
<b>Total Hours</b>			<b>11</b>

**Second Semester**

WLDG	2453	Advanced Pipe Welding	4
WLDG	2451	Advanced Gas Tungsten Arc Welding (GTAW)	4
<b>Total Hours</b>			<b>8</b>
<b>Total Hours for Certificate</b>			<b>45</b>

Comments: Capstone Course: WLDG 2451 - Advanced Gas Tungsten Arc Welding (GTAW).

Note: Students are limited to two 4 Semester Credit Hour courses per semester without Lead Instructor approval.



## **STAND-ALONE CERTIFICATES**

### ***AUTOMOTIVE TECHNOLOGY***

The complexity of motor vehicles demands a very high level of technical knowledge and skill for service personnel. Basic learning skills in reading, writing, and computation are essential to success in the field. The program is a full-time commitment for one academic year, four days a week all day for two semesters, plus five days a week in the summer session for Cooperative Education. The program admits fourteen students each year into a cohort that begins in August. The Automotive Technology curriculum prepares graduates for entry-level employment in vehicle diagnosis, repair, and maintenance work. Basic vehicle theory and principles are taught in the classroom to give the student an understanding of how electrical, electronic, and mechanical components function and why they fail. Actual shop practices train students to utilize appropriate safety procedures, research repair procedures, record time and effort, make repairs, and diagnose, replace, and adjust components. The program has limited enrollment to the first twelve applicants to meet the following criteria for the fall semester:

#### **Admission Criteria for Automotive Technology**

Program application process to be completed before the end of the first summer session:

1. Gain admission to Angelina College
2. Proof of a valid Texas driver's license with no outstanding tickets

Program admission process:

The first fourteen qualified students to provide a valid driver's license and complete any other conditional terms will receive "full" acceptance into the program. Accepted students must pay tuition and fees and purchase textbooks before the first class day.

#### **Co-Operative (coop) Class Screening:**

The coop site will interview students for employment at least two weeks before the coop begins. Coop sites will require a drug test, criminal background check, and driver's license check in the same way a potential employee would. The coop site will do these screenings before accepting students for a coop position at their facilities. The employer will pay for the screening.

## **Level 1 Certificate in Automotive Technology**

### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in Automotive Technology, students will be able to:

PLO 1: Demonstrate how to properly set the lift to raise a vehicle in the air safely.

PLO 2: Apply knowledge to resurface a brake rotor using the ProCut on the car brake lathe.

PLO 3: Apply knowledge to mount and balance a tire correctly.

PLO 4: Diagnose and analyze results to determine the cause of an electrical fault.

PLO 5: Demonstrate the ability to set up the four-wheel alignment machine and evaluate the readings to determine the needed adjustments to correct the alignment.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
AUMT 1410	X	X			
AUMT 1416			X		X
AUMT 2434				X	

### **Recommended Course Sequence:**

<b>First Semester</b>	<b>Credit Hours</b>
AUMT 1407* Automotive Electrical Systems	4
AUMT 1410* Automotive Brake Systems	4
AUMT 1416* Suspension and Steering	4
AUMT 1419* Automotive Engine Repair	4
<b>Total Hours</b>	<b>16</b>
<b>Second Semester</b>	
AUMT 2417* Automotive Engine Performance Analysis I	4
AUMT 2425* Automotive Automatic Transmission & Transaxle	4
AUMT 1445* Automotive Climate Control Systems	4
AUMT 2434* Automotive Engine Performance Analysis II	4
<b>Total Hours</b>	<b>16</b>
<b>Third Semester</b>	
AUMT 2480* Cooperative Education – Automobile/Automotive Mechanics Technology/Technician	4
<b>Total Hours</b>	<b>4</b>
<b>Total Hours for Certificate</b>	<b>36</b>

External Field Experience: AUMT 2480 Cooperative Education. \*NOTE: Lectures and labs must be taken concurrently.

## HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION

### ***Level 1 Certificate in HVAC and Refrigeration – Commercial***

The heating, ventilation, air conditioning, and refrigeration program prepares students for a career in the technical service of residential or light commercial/industrial environmental systems. The student will study the mechanical and electrical/electronic systems involved in contemporary environmental controls. Students in the HVAC program learn to maintain, diagnose, and correct problems throughout all parts of the system.

#### **Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in HVAC and Refrigeration-Commercial, students will be able to:

PLO 1: Demonstrate proper use of tools specific to the HVACR industry, appropriate use of PPE, and rectify hazardous working conditions.

PLO 2: Calculate the relationship between voltage, current, and resistance using Ohm’s Law.

PLO 3: Demonstrate proper cutting, deburring, debriding, and brazing of copper joints, utilizing capillary attraction to produce a secure connection that does not leak.

PLO 4: Pass all four sections of the EPA 608 examination.

PLO 5: Diagnose high and low voltage control problems and faults in typical gas and electric HVACR equipment.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
HART 1407	X				
HART 1401		X			
HART 1441			X		
HART 1256				X	
HART 2336					X

**Recommended Course Sequence:**

**First Year**

**First Semester**

			<b>Credit Hours</b>
HART	1401	Basic Electricity for HVAC	4
HART	1407	Refrigeration Principles	4
HART	1441	Residential Air Conditioning	4
HART	1445	Gas and Electric Heating	4
		<b>Total Hours</b>	<b>16</b>

**Second Semester**

HART	2336	Air Conditioning Troubleshooting	3
HART	2441	Commercial Air Conditioning – Capstone	4
HART	2334	Advanced Air Conditioning Controls	3
HART	2442	Commercial Refrigeration – Capstone	4
HART	1256	EPC Recovery Certification Preparation	2
		<b>Total Hours</b>	<b>16</b>

**Total Hours for Certificate                    32**

Capstone courses: HART 2441 Commercial Air Conditioning and HART 2442 Commercial Refrigeration.



## OFFICE ADMINISTRATION

The Level 1 Office Administration certificates are for students who wish to gain proficiency in communication and data analysis for an office environment. Students learn to create, format, and edit documents and to store, process, and analyze data using various software applications. The Office Administration awards are for students seeking employment or advancement in an administrative office environment.

View the Office Administration pathway at [www.angelina.edu/business-technology-pathways](http://www.angelina.edu/business-technology-pathways)

### *Level 1 Certificate in Office Administration*

#### Program Learning Outcomes (PLOs)

After completing the Level 1 Certificate in Office Administration, students will be able to:

PLO 1: Demonstrate the use of technology to produce and maintain documents with accuracy and efficiency.

PLO 2: Demonstrate the ability to design, implement, and maintain procedures for accomplishing various office-related tasks and documents.

PLO 3: Synthesize their knowledge received in courses within this program to succeed as a team member in an office environment to accomplish goals within the organization.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>			
Courses	PLO 1	PLO 2	PLO 3
ITSW 1301	X		
POFT 1309		X	X

#### **Recommended Course Sequence:**

<b>First Semester</b>	<b>Credit Hours</b>
ITSW 1301* Intro to Word Processing	3
ITSW 1304 Intro to Spreadsheets	3
ITSW 1307 Intro to Database	3
POFT 1319 Records & Info Management I	3
ACNT 1303 Intro to Accounting	3
<b>Total Hours</b>	<b>15</b>

**Second Semester**

POFT	1301	Business English	3
POFT	1321	Business Math	3
ITSW	1310	Intro Presentation Graphics Software	3
ACNT	1311*	Introduction to Computerized Accounting	3
POFT	1309*	Administrative Office Procedures I	3
<b>Total Hours</b>			<b>15</b>
<b>Total hours for Certificate</b>			<b>30</b>

\*See [Course Descriptions](#) for prerequisites

***Level 1 Certificate in Office Administration – Computer User Support Specialist***

The Level 1 Certificate in Office Administration - Computer User Support Specialist teaches students to use various software applications applicable to work in an office setting. After successfully completing the relevant courses, students may pursue employment or advancement in an administrative office environment.

**Recommended Course Sequence:**

<b>First Semester</b>			<b>Credit Hours</b>
ITSW	1301*	Introduction to Word Processing	3
ITSW	1310	Intro Presentation Graphics Software	3
ITSW	1307	Intro to Database	3
POFT	1301	Business English	3
ITSW	1304	Introduction to Spreadsheets	3
<b>Total Hours</b>			<b>15</b>

\*Prerequisites: See [Course Descriptions](#).

**Program Student Learning Outcomes (PLOs):**

PLO 1: Demonstrate the ability to produce business or organizational reports for management decision-making or promotion.

PLO 2: Demonstrate the ability to produce formula-based and automated spreadsheets and charts to manage supplies, personnel, costs, or revenues effectively.

<b>Courses in which Achievement of Program Student Learning Outcomes is Measured</b>		
<b>Courses</b>	<b>PLO 1</b>	<b>PLO 2</b>
ITSW 1301	X	
ITSW 1304		X

## REAL ESTATE

The Level 1 Certificate in Real Estate Sales includes courses that prepare students to take the Texas Real Estate License Exam and are approved by the Texas Real Estate Commission. The Level 1 Advanced Certificate in Real Estate includes additional courses that prepare licensed real estate agents to become brokers or real estate appraisers.

### *Level 1 Advanced Certificate in Real Estate*

#### Program Learning Outcomes (PLOs)

After completing the Level 1 Advanced Certificate in Real Estate, students will be able to:

PLO 1: Demonstrate a comprehensive understanding of real estate law, principles, and practice.

PLO 2: Illustrate competent communication in a real estate environment by identifying the ethical and legal standards of the Real Estate industry.

PLO 3: Apply mathematical formulas to calculate down payment, taxes, mortgage payment, loan-to-value ratio, capitalization rate, return on investment, and gross rent multiplier.

Courses Measuring the Achievement of Program Learning Outcomes			
Courses	PLO 1	PLO 2	PLO 3
RELE 1309	X		
RELE 2331		X	
RELE 1325			X

#### Recommended Course Sequence:

First Semester			Credit Hours
RELE 1201	Principles of Real Estate I		2
RELE 1238	Principles of Real Estate II		2
RELE 2201	Law of Agency		2
RELE 1211	Law of Contracts		2
RELE 1200	Contract Forms & Addenda		2
RELE 1319	Real Estate Finance		3
RELE 1221	Real Estate Marketing		2
<b>Total Hours</b>			<b>15</b>



**Second Semester**

POFT	1301	Business English	3
RELE	1303	Real Estate Appraisal	3
RELE	2331	Real Estate Brokerage	3
RELE	1309	Real Estate Law <b>or</b>	
	BUSI	2301 Business Law	3
RELE	1325	Real Estate Math <b>or</b>	
	POFT	1321 Business Math	3
<b>Total Hours</b>			<b>15</b>
<b>Total hours for Certificate</b>			<b>30</b>

**Level 1 Certificate in Real Estate Salesman**

**Program Learning Outcomes (PLOs)**

After completing the Level 1 Certificate in Real Estate Salesman, students will be able to:

PLO 1: Demonstrate an understanding of the concepts of real property, legal descriptions, and interest in real estate.

PLO 2: Use correct forms within the Texas Real Estate Commission rules for the use of forms.

PLO 3: Demonstrate an understanding of estate transfers and title and real estate closing procedures.

PLO 4: Demonstrate an understanding of the agency relationships when dealing with clients.

PLO 5: Demonstrate an understanding of the Texas Real Estate License Act.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
RELE 1201	X				X
RELE 1200		X			
RELE 1238			X		
RELE 2201				X	

**First Semester**

**Credit Hours**

RELE	1201	Principles of Real Estate I	2
RELE	1238	Principles of Real Estate II	2
RELE	2201	Law of Agency	2
RELE	1211	Law of Contracts	2
RELE	1200	Contract Forms & Addenda	2
RELE	1319	Real Estate Finance	3
RELE	1221	Real Estate Marketing (2 credit hours) <b>or</b>	
	RELE	2331 Real Estate Brokerage (3 credit hours)	2-3
<b>Total Hours</b>			<b>15-16</b>

## SCHOOL OF HEALTH CAREERS

The School of Health Careers offers certificates and degrees in eight healthcare programs. We pride ourselves in giving students a connected experience in state-of-the-art facilities while partnering with local hospitals to provide a well-rounded experience.

- **Diagnostic Medical Sonography**
- **Emergency Medical Services (EMT)**
- **Nursing (ADN, LVN)**
- **Pharmacy Technology**
- **Radiologic Technology**
- **Respiratory Care**
- **Surgical Technology**

## **DIAGNOSTIC MEDICAL SONOGRAPHY**

### ***Associate of Applied Science in Diagnostic Medical Sonography***

The College offers a cooperative program with area hospitals that is designed to provide understanding, proficiency, and skill in diagnostic medical sonography. Upon completion of the program, the successful student is awarded an Associate of Applied Science Degree and meets the requirements set by the American Registry for Diagnostic Medical Sonography (ARDMS) to apply for their certification examination.

The program curriculum provides a balance of didactic and technical courses that allow each student individual educational development and clinical competence opportunities. The student must achieve a minimum grade of "C" in all sonography courses or be dropped from the program.

#### **Program Accreditation**

Angelina College Diagnostic Medical Sonography Program is accredited through the Commission on Accreditation of Allied Health Education Programs (CAAHEP 93551 13th St. N, #7709 Seminole, FL 33775, 727-210-2350, [www.caahep.org](http://www.caahep.org)) upon the recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS 6021 University Boulevard, Suite 500 Ellicott City, MD 21043, 443-973-3251, [www.jrcdms.org](http://www.jrcdms.org)).

#### **Mission and Philosophy**

The Diagnostic Medical Sonography Program, in concert with the mission and philosophy of Angelina College, is committed to providing a quality and comprehensive education in diagnostic medical sonography for preparation in the profession. Through didactic information, educational resources, and a variety of clinical experiences, the program is designed to develop competent, responsible, and independent sonography professionals. The program's mission is supported by a dedicated team of experienced faculty, sonographers, and physicians who encourage and model life-long learning in diagnostic medical sonography.

#### **Goals**

- To prepare competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for the following concentration(s) it offers: abdominal sonography-extended and obstetrics and gynecology sonography.
- To produce graduates who meet the requirements set by the American Registry for Diagnostic Medical Sonography certification examination upon completion of the program.
- To seek new community partnerships for clinical practice as needs are identified according to student growth and the addition of advanced modality certificate programs.
- To provide students with both academic and clinical instruction in the field of Diagnostic Medical Sonography in order to meet the employment needs of the graduate and of the medical communities.
- To foster and promote the pursuit of life-long learning and professional growth in each student.

#### **Admission Criteria for the Diagnostic Medical Sonography Program**

1. Application and acceptance to Angelina College.
2. Annually attend an information session to obtain a program application and information.

3. Submit a completed application for the sonography program, completed physical health form, proof of immunizations mandated by the Texas Department of State Health Services for healthcare workers, and provide proof of current 2-year American Heart Association CPR Healthcare Provider card **no later than July 15 each year for August consideration. The program must receive all requested information for the application to be complete. The hepatitis B series (3 shots in 6 months) must be completed by the first clinical day of the fall semester.**
4. Submit official college transcript(s) indicating completion of prerequisite courses in the application.
5. Complete all prerequisite courses with a grade of “C” or better before the designated date:
  - BIOL 2404 – Human A&P (General)
  - ENGL 1301 – Composition
  - PSYC 2301 – General Psychology
  - MATH 1314 – College Algebra
  - PHYS 1305 – Elementary Physics
  - DMSO 1210 – Introduction to Sonography

**Prerequisite courses may be taken only twice for selection consideration. If a prerequisite course is taken more than twice, only the second grade will be calculated in the cumulative GPA for prerequisite courses.**
6. “Conditional” acceptance into the diagnostic medical sonography program is limited. Applicants will be ranked and selected based on the following criteria:
  - a. Completion of ALL requirements by published deadlines.
  - b. Cumulative GPA in BIOL 2404, ENGL 1301, PSYC 2301, MATH 1314, PHYS 1305, and DMSO 1210. After completing the second summer semester, applicants are ranked according to the cumulative GPA of the prerequisite courses. Twenty (20) applicants with the highest GPA in the prerequisite courses are ranked using the point value system.
  - c. The point value system is posted on the Angelina College website Sonography Program page.
7. Applicants are notified of “conditional” acceptance decisions via their student email account before fall registration.
8. A background check and random drug screening are required upon “conditional” acceptance and are conducted at the student’s expense. These are completed with agencies designated by the program.
9. The drug screening and background check must be successful/negative to receive “full” acceptance into the Sonography program.

### **Certification Requirements**

Students considering this program are advised that any conviction of a felony or misdemeanor charge (other than a minor traffic violation/DWI **is not** a minor traffic violation) can make them ineligible for certification by the ARDMS. The ARDMS is the only agency that can address whether they will or will not allow an individual with a criminal record to write the examination. If in doubt, students should investigate the possibilities with the ARDMS at [www.ardms.org](http://www.ardms.org) or (301) 738-8401.



DMSO 2405*	Sonography of Obstetrics/Gynecology	4
<b>Total Hours</b>		<b>9</b>
<b>Summer II</b>		
DMSO 2266*	Practicum (or Field Experience)	2
<b>Total Hours</b>		<b>2</b>
<b>Second Year</b>		
<b>Fall Semester</b>		
DMSO 2366*	Practicum (or Field Experience)	3
DMSO 2342*	Advanced Obstetric Sonography	3
DMSO 2351*	Doppler Physics	3
XXXX x3xx	Creative Arts Core Elective	
	Choose from ARTS 1301, DRAM 1310, MUSI 1310, or MUSI 1306	3
<b>Total Hours</b>		<b>12</b>
<b>Spring Semester</b>		
DMSO 2367*	Practicum (or Field Experience)	3
DMSO 2230*	Advanced Ultrasound and Review	2
DMSO 1455*	Sonographic Pathophysiology	4
DSVT 1300*	Principles of Vascular Technology	3
<b>Total Hours</b>		<b>12</b>
<b>Total Hours for Degree</b>		<b>65</b>

\*Prerequisites and corequisites required. See [course descriptions](#). Courses must be taken in sequence.

## EMERGENCY MEDICAL SERVICES PROGRAM

The EMSP programs at Angelina College include curricula that meet or exceed the Texas Department of State Health Services (TDSHS) standards for certification in emergency medical services. The College offers a cooperative program with the Lufkin and Nacogdoches hospitals, Nacogdoches County EMS, the City of Lufkin Fire Department/EMS, and AmeriCares/Allegiance EMS Livingston, designed to provide understanding, proficiency, and skill in Emergency Medical Services.

**All students wishing to take any EMSP course MUST complete an application for the program and have the approval of the Program Director BEFORE registration.**

### Program Accreditation

Angelina College Emergency Medical Services Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 9355 - 113th St. N, #7709, Seminole, FL 33775, (phone: 727-210-2350, [www.caahep.org](http://www.caahep.org)).

### Emergency Medical Services Program Admission Criteria

1. Application and acceptance to Angelina College.
2. Written application and acceptance to the EMSP Program.
3. A document (transcript, high school diploma, GED certificate) indicating graduation from high school or its equivalent MUST BE on file in the EMSP office.
4. A complete physical history and certificate of immunization are required. Physical form provided during the information session.
5. Provide proof of a current 2-year American Heart Association (AHA) BLS Provider CPR card.
6. The TSI Assessment is recommended for students seeking a certificate or degree.
7. TDSHS Certification – *must have copies of any current TDSHS certifications* (if applicable).
8. All applicants must attend an information session before acceptance.
9. A background check must be completed within two weeks of the beginning of the course. A drug screening is required and will be done shortly after classes begin. These are conducted at the student's expense at a designated time. The approximate cost is \$80. These screenings are completed through agencies designated by the program.
10. Platinum Planner required.
11. The drug screening and background check must be negative to receive full admission to the program.

**Associate of Applied Science in Emergency Medical Services  
Program Learning Outcomes (PLOs)**

After completing the AAS in Emergency Medical Services degree, students will be able to:

PLO 1: Demonstrate entry-level competencies as a paramedic for employment in the profession.

PLO 2: Demonstrate an understanding of the signs and symptoms and pathophysiology of medical problems to arrive at an accurate diagnosis.

PLO 3: Employ professional judgment and discretion and adhere to the standard of care.

PLO 4: Utilize critical thinking as a basis for decision-making regarding appropriate treatment of illness and injury.

PLO 5: Communicate, in writing, pertinent information concerning the patient to the health care provider receiving the patient.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
EMSP 2243	X	X		X	
EMSP 2462			X		
EMSP 2261					X

**Recommended Course Sequence:**

**First Year**

**Fall Semester**

			<b>Credit Hours</b>
BIOL	2404	General Human Anatomy & Physiology	4
STSU	0300	Student Success	0
EMSP	1501	Emergency Medical Technician Basic	5
EMSP	1160	Clinical-EMT/Technician Basic	1
<b>Total Hours</b>			<b>10</b>

**Spring Semester**

EMSP	1338	Introduction to Advance Practice	3
EMSP	1356	Patient Assessment & Airway Management	3
EMSP	2306	Emergency Pharmacology	3
EMSP	1261	Clinical-EMT/Technician-Advanced	2
<b>Total Hours</b>			<b>11</b>

**Summer Session I & II (12 Weeks)**

EMSP	1355	Trauma Management	3
EMSP	2205	EMS Operations	2



EMSP 2261	Clinical-EMT/Technician/Paramedic II	2
EMSP 2544	Cardiology	5
<b>Total Hours</b>		<b>12</b>

**Second Year**

**Fall Semester**

EMSP 2434	Medical Emergencies	4
EMSP 2430	Special Populations	4
EMSP 2243*	Assessment Based Management	2
EMSP 2462	Clinical-EMT/Technician-Paramedic III	4
EMSP 2160	Clinical/EMT/Technician-Paramedic I	1
<b>Total Hours</b>		<b>15</b>

**Spring Semester**

ENGL 1301	Composition	3
SPCH 1318	Interpersonal Communication	3
SOCI 1301	Introduction to Sociology	3
XXXX x3xx	Creative Arts Core	
	Choose from MUSI 1306, MUSI 1310, ARTS 1301, or DRAM 1310	3
<b>Total Hours</b>		<b>12</b>
<b>Total Hours for Degree</b>		<b>60</b>

\*Capstone course of the EMSP program.

***Emergency Medical Services Occupational Skills Award Certificate –  
Basic Program***

**Recommended Course Sequence:**

<b>Fall or Spring Semesters:</b>		<b>Credit Hours</b>
EMSP 1160	Clinical EMT/Technician – Basic	1
EMSP 1501	Emergency Medical Technician – Basic	5
<b>Total Hours</b>		<b>6</b>



This certificate stacks into the corresponding AAS degree

Upon successful completion (with a grade of “C” or higher) of the EMSP courses, the student is eligible to take the examination for certification as an Emergency Medical Technician – Basic by the National Registry of EMTs and the Texas Department of State Health Services. Courses must be taken concurrently.

## Level 2 Paramedic Certificate



This certificate stacks  
into the corresponding  
AAS degree

The student must be Texas State certified as an EMT to complete this semester. Courses must be taken concurrently.

### Recommended Course Sequence:

#### Spring Semesters Only:

EMSP	1261	Clinical EMT/Technician – Advanced							2
EMSP	1356	Patient Assessment and Airway Management							3
EMSP	1338	Introduction to Advanced Practice							3
EMSP	2306	Emergency Pharmacology							3
<b>Total Hours</b>									<b>11</b>

*Upon successful completion (with a grade of “C” or higher) of the spring EMSP courses, the student is eligible to continue pursuing the Paramedic Certificate courses at Angelina College. The student must have successfully completed the EMSP – Basic program.*

#### First Summer Session

EMSP	1355	Trauma Management							3
EMSP	2205	EMS Operations							2
EMSP	2261	Clinical EMT/Technician – Paramedic II (EMSP 2261 continues through Summer II)							2
<b>Total Hours</b>									<b>7</b>

*The student is eligible for the Advanced Certificate in Emergency Medical Services upon successful completion of the courses above. Students may request an opportunity to take the AEMT (Advanced Emergency Medic Technician) exam after successfully completing Summer I.*

#### Second Summer Session

EMSP	2544	Cardiology							5
<b>Total Hours</b>									<b>5</b>

*During the summer and completion of courses, the student may request an opportunity to take the AEMT (Advanced Emergency Medic Technician) exam.*

#### Fall Semester

EMSP	2160	Clinical EMT/Technician Paramedic I							1
EMSP	2243	Assessment Based Management							2
EMSP	2430	Special Populations							4
EMSP	2434	Medical Emergencies							4
EMSP	2462	Clinical EMT/Technician - Paramedic III							4
<b>Total Hours</b>									<b>15</b>
<b>Total Hours for Certificate</b>									<b>38</b>

Upon successful completion (with a grade of “C” or higher) of the Paramedic Certificate EMSP courses (spring, summer I, summer II, and fall), the student is eligible to take the examination for certification as

an Emergency Medical Technician- Paramedic by the National Registry of EMTs and the Texas Department of State Health Services and earn a Certificate of Completion from Angelina College.

Note: The current state certifying examinations for EMT-Basic, AEMT, and EMT-Paramedic are the exams administered by the National Registry of EMTs.

## **NURSING**

### **Mission Statement**

In accordance with the mission of Angelina College, the Nursing Program provides quality nursing education in response to the unique needs and ethnic diversity of East Texas.

Angelina College Nursing Program provides high-quality nursing education in a culturally, racially, and ethnically diverse community by creating positive teaching and learning environments consistent with professional, educational, and ethical standards of nursing.

The associate degree nursing program at the main campus in Lufkin is a multiple entry/exit program (MEEP). Upon successful completion of the first year of the nursing program and completion of the MEEP option, students will be eligible for the NCLEX PN licensing examination and be eligible to apply for a vocational nursing license by examination. Students have the option to continue the ADN program. Upon successful completion of two calendar years of ADN study, students receive the Associate of Applied Science degree and are eligible to take the NCLEX-RN licensing examination.

For fees and other information about the nursing program, please visit [Angelina College Nursing](#) and [Angelina College Tuition and Fees](#).

### **Career Tracks**

The nursing program is designed to permit students to enter as beginning students or LVNs and to exit at either the vocational or associate degree level. The Angelina College Nursing Program provides pre-licensure nursing education for the associate degree level on the Lufkin Campus.

### **Program Approval**

The associate degree nursing track/vocational nursing option and the vocational programs are approved by the Texas Board of Nursing for the State of Texas. This agency establishes rules and regulations governing nursing education, examination, licensure, and the practice of nursing.

### **Associate of Applied Science - (Lufkin Campus only)**

The associate degree nursing program at the main campus in Lufkin is a multiple entry/exit program (MEEP). Upon successful completion of two calendar years of study, students receive the Associate of Applied Science Degree in Nursing and are eligible to take the NCLEX-RN licensing examination.

### **Associate Degree Nursing, MEEP Option**

Students may choose to enroll in the MEEP option after completing two semesters of the associate degree program. Students complete the first year of the associate degree track plus vocational summer courses in preparation for the NCLEX-PN examination. Students receive a certificate of completion from Angelina College. After completing the vocational nursing option, students may exit or continue through the second year of the curriculum and complete the associate degree nursing track.

### **Associate Degree Nursing with Vocational Nursing Option**

Students may choose to enroll in the vocational nursing option of the associate degree program. Students complete the first year of the associate degree track plus vocational summer courses in preparation for the NCLEX-PN examination. Students receive a certificate of completion from Angelina College. After

completing the vocational nursing option, students may exit or continue through the second year of the curriculum and complete the associate degree nursing track.

### **Admission Criteria for the Associate Degree Nursing, Multi Entry Exit Programs (MEEP)**

1. Gain admission to the college.
2. Complete the mandatory information session as directed to obtain an application packet.
3. Complete all prerequisite courses with a grade of “C” or better by the designated date.
  - STSU 0300 – Student Success (EDUC/PSYC 1300 – Learning Framework may be substituted for STSU)
  - PSYC 2301 – General Psychology or PSYC 2314 – Life Span Growth and Development (Both PSYC 2301 and PSYC 2314 are required to complete the MEEP option)
  - ENGL 1301 – English Composition
  - BIOL 2401 – Anatomy and Physiology I
  - BIOL 2402 – Anatomy and Physiology II
  - BIOL 2420 – Microbiology
  - RNSG 1208 – Dosage Calculations for Nursing

Note: For prerequisite courses taken more than once, the most recent grade will be calculated into the cumulative GPA for prerequisite courses. The GPA must be at least 2.5. Applicants must pass a dosage calculation test (90% or better) by the designated date.

4. Submit current college transcript(s) showing any prerequisite courses completed after the application packet deadline. (The Office of the Registrar needs official transcripts, while the nursing office can receive unofficial.) Applicants for transfer into the nursing program are reviewed on an individual basis. **Applicants are not guaranteed acceptance.** A minimum grade of “C” is required for all courses transferred. The grade point average in prerequisite courses is used in the selection process. **It is strongly recommended that prerequisite courses taken more than five (5) years before transfer be audited. Students must provide transcripts and records that reflect the classroom and clinical hours.**
5. **Provide proof of a completed medical form no later than the designated date:**
  - a. Receive immunizations mandated by the Texas Department of State Health Services for health care workers. **Note: All Hepatitis B series must be completed by the first clinical day of the first semester. This series requires six months to complete.**
  - b. Angelina College does not mandate the COVID-19 vaccination; however, the college adheres to the requirements of clinical sites. Therefore, without being vaccinated, students cannot complete clinical requirements, making them ineligible for graduation and the NCLEX RN/PN licensing examination.
6. Provide proof of a current 2-year American Heart Association (AHA) Basic Life Support (BLS) Cardio Pulmonary Resuscitation (CPR) card.
7. “Conditional” acceptance into the nursing program is limited; applicants will be ranked and selected based on the following criteria:
  - a. Cumulative GPA in:
    - PSYC 2301 – General Psychology or PSYC 2314 – Life Span
    - ENGL 1301 – English Composition
    - BIOL 2401 – Anatomy & Physiology I

- BIOL 2402 – Anatomy & Physiology II
  - BIOL 2420 – Microbiology
  - RNSG 1208 – Dosage Calculations
- b. Weighted score based on the first or second grade in science courses (BIOL 2401 & BIOL 2402, BIOL 2420)
  - c. To be considered for admission, admission standardized exam scores must meet or exceed the benchmark score.
  - d. Additional coursework outside of the ADN track.
  - e. Cumulative overall GPA of 2.5.
8. Completion of all requirements by the posted deadlines.
  9. Applicants are notified of “conditional” acceptance via Angelina College student email.
  10. A background check will be done using the Texas Board of Nursing procedure.
  11. A random drug screening will be required and must be negative to continue in the Nursing Program.

Students are allowed one entry and one re-entry into the nursing program. Contact the Nursing office at (936) 633-5265 or 633-3200 for questions.

## ***Associate of Applied Science in Nursing***

### **Program Learning Outcomes (PLOs)**

After completing the AAS in Nursing degree, students will be able to:

PLO 1: Demonstrate the use of clinical reasoning, nursing process, and evidence-based practice outcomes as a basis for decision-making.

PLO 2: Exhibiting behaviors that reflect a commitment to the growth and development of the role and function of nursing consistent with state and national regulations and with ethical and professional standards; aspires to improve the discipline of nursing and its contribution to society; and values self-assessment and the need for lifelong learning.

PLO 3: Accept responsibility for the quality of nursing care and provide safe, compassionate nursing care using a systematic process of assessment, analysis, planning, intervention, and evaluation that focuses on the needs and preferences of patients and their families.

PLO 4: Promoting safety in the patient and family environment by following the scope and standards of nursing practice, practicing within the parameters of individual knowledge, skills, and abilities; identifying and reporting actual and potential unsafe practices; and implementing measures to prevent harm.

PLO 5: Providing patient-centered care by collaborating, coordinating, and/or facilitating comprehensive care with an interdisciplinary/ multidisciplinary healthcare team to determine and implement best practices for the patients and their families.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
RNSG 2130	X				
RNSG 1262		X			
RNSG 2360			X		
RNSG 1215				X	
RNSG 2363					X

### **Recommended Course Sequence:**

<b>Required Prerequisite Courses</b>	<b>Credit Hours</b>
PSYC 2301 General Psychology <b>or</b> PSYC 2314 Life Span**	3
ENGL 1301 English Composition	3
RNSG 1208 Dosage Calculations for Nursing	2
STSU 0300 Student Success	0
BIOL 2401 Human Anatomy & Physiology I	4
BIOL 2402 Human Anatomy & Physiology II	4
BIOL 2420 Microbiology	4
<b>Total Hours</b>	<b>20</b>

**First Year****Fall Semester**

RNSG	1205	Nursing Skills	2
RNSG	1215	Health Assessment	2
RNSG	1309	Introduction to Nursing	3
RNSG	1262	Clinical Nursing	2

**Total Hours 9****Spring Semester**

RNSG	1341*	Common Concepts	3
RNSG	1363	Clinical Nursing	3
RNSG	1301*	Pharmacology	3

**Total Hours 9****Second Year****Fall Semester**

RNSG	1343	Complex Concepts	3
RNSG	1412	Nursing Care of the Childbearing/Child-Rearing Family	4
RNSG	2360	Clinical Nursing	3
XXXX	x3xx	Creative Arts Core Elective Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 1310	3

**Total Hours 13****Spring Semester**

RNSG	2331*	Advanced Concepts – Adult Health	3
RNSG	2130	Professional Nursing Review and Licensure Preparation	1
RNSG	2363*	Clinical Nursing	3
RNSG	2213*	Mental Health Nursing	2

**Total Hours 9****Total Hours for Degree 60**

\* See [course descriptions](#) for prerequisite and corequisite requirements.

Upon successful completion of 60 hours, a clear criminal background check, and with approval of the Texas Board of Nursing, students may request to take the NCLEX-RN Licensure Examination.



## ***Associate of Applied Science in Nursing with MEEP option***

### **Program Learning Outcomes (PLOs)**

After completing the AAS in Nursing with the MEEP option degree, students will be able to:

PLO 1: Demonstrate the use of clinical reasoning, nursing process, and evidence-based practice outcomes as a basis for decision-making.

PLO 2: Exhibiting behaviors that reflect a commitment to the growth and development of the role and function of nursing consistent with state and national regulations and with ethical and professional standards; aspires to improve the discipline of nursing and its contribution to society; and values self-assessment and the need for lifelong learning.

PLO 3: Accept responsibility for the quality of nursing care and provide safe, compassionate nursing care using a systematic process of assessment, analysis, planning, intervention, and evaluation that focuses on the needs and preferences of patients and their families.

PLO 4: Promoting safety in the patient and family environment by following the scope and standards of nursing practice, practicing within the parameters of individual knowledge, skills, and abilities; identifying and reporting actual and potential unsafe practices; and implementing measures to prevent harm.

PLO 5: Providing patient-centered care by collaborating, coordinating, and/or facilitating comprehensive care with an interdisciplinary/ multidisciplinary healthcare team to determine and implement best practices for the patients and their families.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
<b>Courses</b>	<b>PLO 1</b>	<b>PLO 2</b>	<b>PLO 3</b>	<b>PLO 4</b>	<b>PLO 5</b>
RNSG 2130	X				
RNSG 1262		X			
RNSG 2360			X		
RNSG 1215				X	
RNSG 2363					X

### **Recommended Course Sequence:**

#### **Required Prerequisite Courses**

PSYC 2301 General Psychology (3 credit hours) **and**  
 PSYC 2314 Life Span (3 credit hours) \*\*  
 ENGL 1301 English Composition  
 RNSG 1208 Dosage Calculations for Nursing  
 STSU 0300 Student Success

#### **Credit Hours**

3-6  
 3  
 2  
 0

BIOL	2401	Human Anatomy & Physiology I	4
BIOL	2402	Human Anatomy & Physiology II	4
<b>Total Hours</b>			<b>16</b>

**First Year**

**Fall Semester**

RNSG	1205	Nursing Skills	2
RNSG	1215	Health Assessment	2
RNSG	1309	Introduction to Nursing	3
RNSG	1262	Clinical Nursing	2
BIOL	2420	Microbiology	4
<b>Total Hours</b>			<b>13</b>

**Spring Semester**

RNSG	1341*	Common Concepts	3
RNSG	1363	Clinical Nursing	3
RNSG	1301*	Pharmacology	3
<b>Total Hours</b>			<b>9</b>

**Summer Semester (Vocational Option)\*\*\***

VNSG	1138	Mental Health	1
VNSG	1234	Pediatrics	2
VNSG	1230	Maternal-Neonatal Nursing	2
VNSG	1360	Clinical Nursing	3
<b>Total Hours</b>			<b>8</b>

*After completing these courses, students may obtain a Level II certificate in Vocational Nursing.*

**Second Year**

**Fall Semester**

RNSG	1343	Complex Concepts	3
RNSG	1412	Nursing Care of the Childbearing/Child-Rearing Family	4
RNSG	2360	Clinical Nursing	3
XXXX	x3xx	Creative Arts Core Elective	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 1310	3
<b>Total Hours</b>			<b>13</b>

**Spring Semester**

RNSG	2331*	Advanced Concepts – Adult Health	3
RNSG	2130	Professional Nursing Review and Licensure Preparation	1
RNSG	2363	Clinical Nursing	3
RNSG	2213*	Mental Health Nursing	2
<b>Total Hours</b>			<b>9</b>
<b>Total Hours for Degree</b>			<b>60</b>

\* See [course descriptions](#) for prerequisite and corequisite requirements.

\*\*PSYC 2314 is mandatory if taking the VN MEEP option. If not taking the VN MEEP option, students only take 1 PSYC course.

\*\*\* Vocational option – student may exit with GVN or continue toward ADN.

### Admission Criteria for LVN to ADN Transition Track

This track is designed to facilitate the transition of the Licensed Vocational Nurse into the associate degree nursing track. After successfully completing the transition and the second year of the ADN program, the student will receive the Associate of Applied Science degree and be eligible to apply for a registered nurse licensure by examination.

The curriculum begins the second summer semester of each year. Applicants must meet these requirements:

1. Gain admission to the college.
2. Must have a minimum 2.5 grade point average (GPA) overall.
3. Employment as an LVN is preferred.
4. Hold a valid Texas vocational nurse license, which is unencumbered.
5. Attend a "Transition" (VN to RN) Information Session and obtain an application packet.
6. Complete all **prerequisite** courses with a grade of "C" or better:
  - STSU 0300 – Student Success (EDUC 1300 – Learning Framework may be substituted for STSU)
  - PSYC 2301 – General Psychology **or** PSYC 2314 - Lifespan Growth and Development
  - ENGL 1301 – English Composition
  - BIOL 2401 – Anatomy and Physiology I
  - BIOL 2402 – Anatomy and Physiology II
  - BIOL 2420 – Microbiology
  - RNSG 1208 – Dosage Calculations for Nursing

**Note:** For prerequisite courses taken more than once, the most recent grade will be calculated into the cumulative GPA for prerequisite courses. The grade must be at least a "C", no "Ds" or "Fs" are accepted in prerequisite courses.

7. Pass the dosage calculations test with a 90% or higher score after conditional acceptance.
8. Submit the completed application packet by the posted deadline.
9. Submit official college transcript(s) showing completion of prerequisite courses. Applicants are ranked on the following criteria:
  - a. Cumulative GPA in prerequisite courses;
  - b. Admission standardized exam scores must meet or exceed the benchmark score to be considered for admission;
  - c. Weighted score based on first or second grade in science; and
  - d. Completion of non-nursing core curriculum.
10. Provide proof of health requirements no later than the designated date:
  - a. Receive immunizations mandated by the Texas Department of State Health Services for health care workers. **Note: The Hepatitis B series must be completed by the first clinical day of the first semester.** This series requires 6 months to complete. All nursing programs: \*Angelina College does not mandate the COVID-19 vaccination; however, the College adheres to the requirements of clinical sites. Therefore, without being vaccinated for COVID-19, students cannot complete clinical requirements, making them ineligible for graduation and the NCLEX RN/PN Licensing examination.
11. Provide proof of a current 2-year American Heart Association (AHA) Basic Life Support (BLS) Cardio Pulmonary Resuscitation (CPR) card.
12. Applicants will be notified of "conditional" acceptance decisions via college email.

13. A random drug screening is required and must be negative to continue in the Nursing Program. The date will be announced.
14. To complete the equivalent of two calendar years, students must pay to have credit by experience courses added to their transcript.

Students are allowed one re-entry into the VN nursing program. Contact the Nursing Office at (936) 633-5264 for questions or comments.

### ***Associate of Applied Science in Nursing – LVN to ADN Transition Track***

#### **Program Learning Outcomes (PLOs)**

After completing the AAS in Nursing degree, students will be able to:

- PLO 1: Demonstrate the use of clinical reasoning, nursing process, and evidence-based practice outcomes as a basis for decision-making.
- PLO 2: Exhibiting behaviors that reflect a commitment to the growth and development of the role and function of nursing consistent with state and national regulations and with ethical and professional standards; aspires to improve the discipline of nursing and its contribution to society; and values self-assessment and the need for lifelong learning.
- PLO 3: Accept responsibility for the quality of nursing care and provide safe, compassionate nursing care using a systematic process of assessment, analysis, planning, intervention, and evaluation that focuses on the needs and preferences of patients and their families.
- PLO 4: Promoting safety in the patient and family environment by following the scope and standards of nursing practice, practicing within the parameters of individual knowledge, skills, and abilities; identifying and reporting actual and potential unsafe practices; and implementing measures to prevent harm.
- PLO 5: Providing patient-centered care by collaborating, coordinating, and/or facilitating comprehensive care with an interdisciplinary/ multidisciplinary healthcare team to determine and implement best practices for the patients and their families.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
RNSG 2130	X				
RNSG 1262		X			
RNSG 2360			X		
RNSG 1215				X	
RNSG 2363					X

## Recommended Course Sequence:

Required Prerequisite Courses			Credit Hours
PSYC	2301	General Psychology <b>or</b> PSYC 2314	3
ENGL	1301	English Composition	3
RNSG	1208	Dosage Calculations for Nursing	2
STSU	0300	Student Success	0
BIOL	2401	Human Anatomy & Physiology I	4
BIOL	2402	Human Anatomy & Physiology II	4
BIOL	2420	Microbiology	4
<b>Total Hours</b>			<b>20</b>
<b>Summer Semester</b>			
RNSG	1327	Transition: Vocational Nursing Profession	3
RNSG	1260	Clinical Nursing – Transitions	2
<b>Total Hours</b>			<b>5</b>
<b>Fall Semester</b>			
RNSG	1343	Complex Concepts	3
RNSG	1412	Nursing Care of the Childbearing/Child-Rearing Family	4
RNSG	2360	Clinical Nursing	3
XXXX	x3xx	Creative Arts Core Elective Choose from ARTS 1301, DRAM 1310, MUSI 1306, <b>or</b> MUSI 1310	3
<b>Total Hours</b>			<b>13</b>
<b>Spring Semester</b>			
RNSG	2331	Advanced Concepts – Adult Health	3
RNSG	2130	Professional Nursing Review and Licensure Preparation	1
RNSG	2363	Clinical Nursing	3
RNSG	2213	Mental Health Nursing	2
<b>Total Hours</b>			<b>9</b>
<b>Total Hours for Degree</b>			<b>60</b>

**Nursing LVN to ADN Transition Track – Fall I and Spring I semesters of RNSG courses listed below are acquired by paying for Credit by Experience (18 SCH total).**

RNSG	1205	Nursing Skills
RNSG	1215	Health Assessment
RNSG	1309	Introduction to Nursing
RNSG	1262	Clinical Nursing
RNSG	1341	Common Concepts
RNSG	1363	Clinical Nursing
RNSG	1301	Pharmacology

\* See [course descriptions](#) for prerequisite and corequisite requirements.

## VOCATIONAL NURSING

The vocational nursing program prepares the graduate to perform basic nursing skills in non-complex situations independently and to assist the registered nurse or physician in complicated circumstances. Courses begin in the spring semester and conclude at the end of the fall semester (Lufkin Cohort), begin in the fall semester, and conclude at the end of the summer semester (Hudson HS cohort) for a total of 45 semester credit hours. A certificate of completion is awarded upon successful fulfillment of course requirements. The vocational nursing program is approved by the Board of Nursing for the State of Texas. Graduates are eligible to apply for licensure by the NCLEX-PN examination.

**Spring start (January): offered in Lufkin (graduate in December)**

**Fall start (August): offered at Hudson High School (graduate the following August)**

### Admission Criteria

1. Gain admission to the college.
2. Must have a minimum 2.5 grade point average (GPA).
3. Attend an online Information Session to obtain an application packet.
4. Complete all prerequisite courses with a grade of "C" or better:  
STSU 0300 – Student Success  
(EDUC 1300–Learning Frameworks may be substituted for STSU)  
RNSG 1208 – Dosage Calculations  
*Note: For prerequisite courses taken more than once, the most recent grade will be calculated into the cumulative GPA for prerequisite courses. The grade must be at least a "C."*
5. Pass the dosage calculations test with a 90% or higher score on a designated exam.
6. Submit official college transcript(s) showing completion of prerequisite courses. Applicants will be ranked and selected based on the following criteria
7. Applicants are not guaranteed acceptance. A minimum grade of "C" is required for all courses transferred. It is strongly recommended that prerequisite courses taken more than five (5) years prior be audited.
8. Provide proof of health records and immunizations mandated by the Texas Department of State Health Services for health care workers. Note: All Hepatitis B series must be completed by the first clinical day of the first semester. This series requires six months to complete.
9. Angelina College does not mandate the COVID-19 vaccine but adheres to the guidelines of the clinical sites. Therefore, without the COVID-19 vaccine, students cannot complete clinical requirements, making them ineligible for graduation and the NCLEX RN/PN licensure examination.
10. Provide proof of a current 2-year American Heart Association (AHA) Basic Life Support (BLS) Cardio Pulmonary Resuscitation (CPR) card.
11. "Conditional" acceptance into the nursing program is limited; applicants will be ranked and selected based on the following criteria:
  - a. Admission standardized exam scores must meet or exceed the benchmark score to be considered for admission.
  - b. The grade obtained in the prerequisite course: RNSG 1208 – Dosage Calculations
  - c. Additional points earned from taking prerequisite courses from the ADN track.
  - d. *The Hudson High School cohort will have an additional interview requirement.*
12. Completion of all requirements by posted deadlines.

13. Applicants will be notified of “conditional” acceptance via Angelina College student email.
14. A background check will be conducted by the Texas Board of Nursing procedure (TxBON).  
Clearance from the Texas Board of Nursing will allow students to apply for licensure by taking the NCLEX-PN examination.
15. A random drug screening is required after admission into the nursing program but before attending the clinical facility.

Students are allowed one entry and one re-entry into the nursing program. Contact the Nursing Office at (936) 633-3200 for questions or comments.

## ***Level 2 Certificate in Vocational Nursing***

### **Program Learning Outcomes (PLOs)**

Upon completion of the vocational level, the graduate nurse, as a member of the profession, should have the knowledge and skills to provide and coordinate nursing care in structured healthcare settings for individual clients experiencing common, well-defined health problems with predictable outcomes. The VN graduate will be able to:

PLO 1: Demonstrate the use of critical thinking and the nursing process as a basis for decision-making that promotes the development and practice of vocational nursing.

PLO 2: Implement teaching plans for clients concerning the promotion, maintenance, and restoration of health that promote the development and practice of vocational nursing.

PLO 3: Communicate and collaborate in a timely manner with members of the interdisciplinary healthcare team to promote and maintain the optimal health status of patients and their families.

PLO 4: Assume accountability and responsibility for the quality of nursing care provided to patients and their families.

PLO 5: Implement measures to promote quality and a safe environment for patients, self, and others.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
<b>Courses</b>	<b>PLO 1</b>	<b>PLO 2</b>	<b>PLO 3</b>	<b>PLO 4</b>	<b>PLO 5</b>
VNSG 1361	X				
VNSG 1334		X			
VNSG 1362			X		
VNSG 1432				X	
VNSG 1219					X

**Recommended Course Sequence:**

<b>Required Prerequisite Courses</b>			<b>Credit Hours</b>
RNSG	1208	Dosage Calculations for Nursing	2
BIOL	2404	General Anatomy & Physiology	4
<b>First Semester</b>			
VNSG	1304*	Foundations of Nursing	3
VNSG	1226*	Gerontology	2
VNSG	1423*	Basic Nursing Skills	4
VNSG	1361*	Clinical – PN	3
<b>Total Hours</b>			<b>12</b>
<b>Second Semester</b>			
VNSG	1331*	Pharmacology	3
VNSG	1429*	Medical/Surgical Nursing	4
VNSG	1330*	Maternal/Newborn	3
VNSG	1362*	Clinical – PN	3
<b>Total Hours</b>			<b>13</b>
<b>Third Semester</b>			
VNSG	1219*	Professional Development	2
VNSG	1334*	Pediatric Nursing	3
VNSG	1238*	Mental Illness	2
VNSG	1432*	Medical/Surgical Nursing II	4
VNSG	1363*	Clinical – PN	3
<b>Total Hours</b>			<b>14</b>
<b>Total Hours for Certificate</b>			<b>45</b>

\* See course descriptions for prerequisite and corequisite requirements.



## PHARMACY TECHNOLOGY PROGRAM (PHRA)

Angelina College offers a cooperative pharmacy technology program with the area's hospitals, retail stores, and long-term care pharmacies. The Level 2 Certificate program provides understanding, proficiency, and skill in pharmacy technology. The corresponding associate degree offers program graduates the opportunity to further their education in the pharmacy technology field. Additional courses required to complete the associate degree provide students with the knowledge needed for many non-traditional or advanced pharmacy technician roles.

Angelina College is accredited for pharmacy technician training by the American Society of Health-System Pharmacists (ASHP) and the Accreditation Council for Pharmacy Education (ACPE). The program is Pharmacy Technician Certification Board (PTCB\_ approved, which is required for taking the PTCE (Pharmacy Technician Certification Exam). Before attending clinical, students must register with the Texas State Board of Pharmacy as an ACTIVE pharmacy technician trainee. Students enrolled in the program will also be eligible to become certified in the preparation of intravenous admixtures. In addition, this will meet the required 40 hours of training on compounding sterile products. Upon completion of the program, the graduate will receive a certificate of completion from Angelina College and the Pharmacy Technology Program and can exit at the certificate level or continue for completion of the associate degree level.

The program curriculum is a balance of approved didactic coursework, simulation, and experiential training, which offers the students an opportunity for educational development and occupational competence during the certificate program. Students must achieve a minimum grade of "C" in all (PHRA) pharmacy technology courses or will be dropped from the program. To graduate from the program, students must maintain an overall GPA of 2.0.

Any conviction of a felony or a misdemeanor charge (other than a minor traffic violation), hospitalization or treatment for mental illness, or chemical dependence can cause an ineligibility for certification. During a mandatory information session, applicants are informed of the AC policies regarding illicit drug use, the criminal background check, and the immunization requirements.

### Program Mission

In accordance with the mission of Angelina College, the Pharmacy Technology Program provides quality pharmacy technician education in response to the unique needs and ethnic diversity of East Texas.

The mission of the pharmacy technology program is accomplished by:

1. Maintaining program approval by the Texas Higher Education Coordinating Board (THECB) and accreditation from the American Society of Health-System Pharmacist (ASHP), the Accreditation Council for Pharmacy Education (ACPE), and the Southern Association of College and Schools Commission on Colleges (SACSCOC).
2. Preparing students for certification and entrance into practice as a pharmacy technician.
3. Advocating a comprehensive approach to client/patient care through the use of safe procedures and processes.
4. Developing a curriculum that reflects advances in pharmacy technology, current health trends, and changes in individual family and community systems.

### Program Goals

1. Provide the highest quality instruction of the curriculum designed to prepare the graduate for an entry-level position in practice as a pharmacy technician.
2. Provide a curriculum designed to incorporate the knowledge, comprehension, and application of affective, psychomotor, and critical thinking skills, resulting in accreditation by the American Society of Health-System Pharmacists (ASHP)/Accreditation Council for Pharmacy Education (ACPE).
3. Prepare graduates for certification and entry-level employment.
4. Promote a caring orientation in a technologically changing environment.
5. Advocate a comprehensive approach to pharmacy technician education and training.
6. Implement a curriculum that reflects current health practices in retail, hospital, and mail-order pharmacy markets.

### Admission Criteria for the Pharmacy Technology Program

1. Application and acceptance to Angelina College.
2. Attend a mandatory information session to obtain an application packet.
3. Completed application packet for the pharmacy technology program **must be submitted by August 1 each year for consideration of fall entry**. The application is complete only when all information requested is received, including a completed physical health form, proof of immunizations mandated by the Texas Department of State Health Services (TDSHS) for healthcare workers, and proof of a current 2-year American Heart Association CPR card.
4. Complete the prerequisite course, BIOL 2404 General Anatomy & Physiology, with a grade of “C” or better before the designated date.
5. Send all official transcripts directly to Angelina College Registrar from issuing schools/agencies. College transfer students must submit official transcripts from all colleges in which the applicant was enrolled. **A copy of official college transcripts and a high school transcript or GED score should be submitted with the completed program (PHRA) application.**
6. “Conditional” acceptance into the pharmacy technology program will be limited; applicants will be ranked and selected based on a point system. The point system is based on pre-admissions testing (test scores and Keyboarding score - 30 WPM or higher or a recent college-level computer course – grade C or better), attendance of an information session, former healthcare work-related experience, former college education courses or college degree, grade in BIOL 2404, and completion of ALL requirements by the posted deadlines.
7. Interview: the top 20-30 eligible applicants are interviewed. Candidates are interviewed on an individual basis by the program director and faculty. Applicants may be required to take a basic math skills test and write a short essay on a topic before interviews on a scheduled date in the summer.
8. Students selected for “conditional” acceptance into the PHRA program will be notified with a letter from the Pharmacy Technology Program Director by August 15<sup>th</sup> of each year.
9. Upon "conditional" acceptance to the program, a random drug screening, a background check, CPR certification, and immunizations must be uploaded and verified by our specified vendor at the student's expense.
10. The drug screening and background check must be negative to receive “full” acceptance into the program.

## *Associate of Applied Science in Pharmacy Technology*

### Program Learning Outcomes (PLOs)

After completing the AAS in Pharmacy Technology degree, students will be able to:

PLO 1: Demonstrate entry-level competencies for employment in the profession as a pharmacy technician by satisfactorily completing the ASHP/ACPE standards.

PLO 2: Utilize critical thinking as a basis for decision-making in the role of the pharmacy technician.

PLO 3: Demonstrate an understanding of patient confidentiality, utilizing professional decision-making while assisting the pharmacist in serving patients.

PLO 4: Demonstrate an understanding of the control systems to maintain medication inventory.

PLO 5: Communicate clearly and professionally with all necessary parties, including patients, co-workers, and other healthcare professionals.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
PHRA 2366	X				
PHRA 1441		X			
PHRA 1243			X		
PHRA 1345				X	
PHRA 1313					X

### Recommended Course Sequence:

<b>First Year</b>	<b>Credit Hours</b>
<b>Summer I Semester</b>	
STSU 0300 Student Success	0
BIOL 2404 General Anatomy & Physiology	4
<b>Total Hours</b>	<b>4</b>
<b>Summer II Semester</b>	
PHRA 1301 Intro to Pharmacy	3
HITT 1305* Medical Terminology	3
<b>Total Hours</b>	<b>6</b>
<b>Fall Semester</b>	
PHRA 1305 Drug Classification	3
PHRA 1309 Pharmaceutical Math	3
PHRA 1313 Community Pharmacy Practice	3
PHRA 1266 Practicum I	2
PHRA 1102 Pharmacy Law	1
<b>Total Hours</b>	<b>12</b>
<b>Spring Semester</b>	

PHRA	1347	Pharmaceutical Mathematics II	3
PHRA	1441	Drug Therapy & Treatment	4
PHRA	1345	Compounding Sterile Preparations	3
PHRA	1243	Certification Review	2
PHRA	2366	Practicum II	3
<b>Total Hours</b>			<b>15</b>

*Students are eligible for a Level 2 Certificate of Completion in Pharmacy Technology upon completion of this semester.*

**Second Year**

**Summer I Semester**

PHRA 1240**	Pharmacy Third Party Payment		2
<b>Total Hours</b>			<b>2</b>

**Fall Semester**

PSYC	2301	General Psychology	3
PHRA	1350	Pharmacy Management for Technicians	3
PHRA	2320	Advanced Skills for Pharmacy Technicians	3
<b>Total Hours</b>			<b>9</b>

**Spring Semester**

ENGL	1301	English Composition	3
ITSW	1304	Introduction to Spreadsheet	3
XXXX	x3xx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 1310	3
SPCH	1318	Interpersonal Communication	3
<b>Total Hours</b>			<b>12</b>
<b>Total Hours for Degree</b>			<b>60</b>

\*HITT 1305 is not required for a certificate of completion.

\*\*Students must pass the Pharmacy Technician Certification Exam before enrolling in PHRA 1240, 1350, or 2320.

## Level 2 Certificate of Completion in Pharmacy Technology Program

### Program Learning Outcomes (PLOs)

After completing the Level 2 Certificate of Completion in Pharmacy Technology Program, students will be able to:

PLO 1: Demonstrate entry-level competencies for employment in the profession as a pharmacy technician by satisfactorily completing the ASHP/ACPE standards.

PLO 2: Utilize critical thinking as a basis for decision-making in the role of the pharmacy technician.

PLO 3: Demonstrate an understanding of patient confidentiality, utilizing professional decision-making while assisting the pharmacist in serving patients.

PLO 4: Demonstrate an understanding of the control systems to maintain medication inventory.

PLO 5: Communicate clearly and professionally with all necessary parties including patients, co-workers, and other healthcare professionals.



This certificate stacks into the corresponding AAS degree

Courses Measuring the Achievement of Program Learning Outcomes					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
PHRA 2366	X				
PHRA 1441		X			
PHRA 1243			X		
PHRA 1345				X	
PHRA 1313					X

#### Recommended Course Sequence:

##### Summer I

STSU	0300	Student Success	0
BIOL	2404*	General Anatomy & Physiology	4
<b>Total Hours</b>			<b>4</b>

##### Summer II

PHRA	1301**	Introduction to Pharmacy*** (also offered in fall)	3
<b>Total Hours</b>			<b>3</b>

##### Fall Semester

PHRA	1102**	Pharmacy Law	1
PHRA	1305**	Drug Classification	3
PHRA	1309**	Pharmaceutical Mathematics I***	3
PHRA	1313**	Community Pharmacy Practice	3
PHRA	1266**	Practicum 1****	2
<b>Total Hours</b>			<b>12</b>

**Spring Semester**

PHRA 1347**	Pharmaceutical Mathematics II	3
PHRA 1441**	Pharmacy Drug Therapy and Treatment	4
PHRA 1345**	Compounding Sterile Preparations	3
PHRA 1243**	Pharmacy Technician Certification Review	2
PHRA 2366**	Practicum II ****	3
	<b>Total Hours</b>	<b>15</b>
	<b>Total Hours for Certificate</b>	<b>34</b>

\*Must pass BIOL 2404 with a "C" or better to apply to the program.

\*\* Prerequisites and corequisites required. See [course descriptions](#). Courses must be taken in sequence.

\*\*\*PHRA 1309 can be taken before acceptance into the program (offered in spring semesters). PHRA 1301 can be taken before acceptance into the program (offered in Summer II and Fall).

## RADIOLOGIC TECHNOLOGY

The college offers a cooperative program with the area hospitals designed to provide understanding, proficiency, and skills in Radiography. Upon completion of the program, the successful student is granted an Associate of Applied Science Degree and is eligible to become certified by the American Registry of Radiologic Technologists.

The program curriculum balances general education, technical courses, and supervised practicum at area hospitals. The curriculum provides the student with educational development and occupational competence during the two-year program. The student must achieve a minimum grade of "C" in all prerequisite and Radiography courses or be dropped from the program. To graduate from the program, students must maintain an overall GPA of 2.0.

### Radiography Mission and Philosophy

The Radiologic Technology Program, in concert with the mission and philosophy of Angelina College, is committed to providing a quality and comprehensive education in general radiography for preparation in the profession. Through didactic information, educational resources, and a variety of clinical experiences, the program is designed to develop competent, responsible, and independent radiography professionals. The program's mission is also supported by a dedicated team of experienced faculty, radiographers, and physicians who encourage and model life-long learning in radiography.

### Goals

1. Students will demonstrate entry-level competency for employment in the profession.
2. Students will recognize the importance of professionalism and ethical behavior.
3. Students will employ critical thinking and problem-solving skills.
4. Students will demonstrate the ability to communicate effectively.

### Program Effectiveness Goals

The program will accomplish its mission by graduating competent radiographers.

1. Graduates will pass the ARRT certification exam.
2. Graduates will be employed in the medical imaging field.
3. Graduates will be satisfied with their educational experience.
4. Employers will be satisfied with the quality of program graduates.

### Admission Criteria for the Radiologic Technology Program

1. Application and acceptance to Angelina College.
2. Annually attend an information session to obtain a program application and information.
3. Submit a completed application for the radiography program, completed physical health form, proof of immunizations mandated by the Texas Department of State Health Services for healthcare workers, and provide proof of current 2-year American Heart Association CPR Healthcare Provider card **no later than May 1 each year for August consideration. The program must receive all requested information for the application to be complete. The hepatitis B series (3 shots in 6 months) must be completed by the first clinical day of the fall semester.**
4. Complete all prerequisite courses before the designated selection date:
  - BIOL 2404 – Human A & P (General)
  - ENGL 1301 – Composition
  - PSYC 2301 – General Psychology
  - MATH 1314 – College Algebra
  - OR MATH 1332 – Contemporary Math**

RADR 1201 – Introduction to Radiography

RADR 1203 – Patient Care

**Prerequisite courses may be taken twice in a five-year period for selection consideration. If a prerequisite course is taken twice in a five-year period, only the second grade will be calculated in the cumulative GPA for program selection.**

**\*\*Exception – Prerequisite 5-Year Rule:** After a five (5) year period has elapsed, a student can attempt a prerequisite course for a third time, which will count toward the GPA calculation for program entrance.

5. Submit official college transcript(s) indicating completion of prerequisite courses before the August decision date.
6. Acceptance into the radiography program is limited. Applicants will be ranked and selected based on the following criteria:
  - a. Completion of all prerequisite course requirements by published deadlines.
  - b. Cumulative GPA in BIOL 2404, ENGL 1301, PSYC 2301, MATH 1314 or MATH 1332; RADR 1201, RADR 1203. The GPA is calculated after the end of the second summer session each year, with students ranked in descending numerical order. In case of GPA tie(s), the following items will be used for final selection: students with higher grades in MATH 1314 or MATH 1332; BIOL 2404, RADR 1201, and RADR 1203 will receive greater consideration.
  - c. “Conditional” program admission is based on the cumulative GPA in the prerequisite courses. The Radiography program currently accepts 20-23 students per year.
7. Applicants will be notified of “conditional” admission decisions by letter before fall registration.
8. Upon “conditional” acceptance into the program, a random drug screening and background check are conducted at the student’s expense.
9. The drug screening and background check must be negative/successful to receive “full” acceptance into the program.

### **State Licensing Requirements**

The State of Texas requires the licensing of Medical Radiologic Technologists (MRT) through the Texas Medical Board (TMB).

The Radiography Program conforms to state requirements by being accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) for the **MRT – General Certificate** (allowing for the performance of all radiological procedures). JRCERT contact information:

JRCERT  
20 N. Wacker Drive  
Suite 2850  
Chicago, IL 60606-3182  
Phone: 312.704.5300, fax: 312.704.5304  
Internet: [www.jrcert.org](http://www.jrcert.org). or [mail@jrcert.org](mailto:mail@jrcert.org).

The graduate must apply for the American Registry of Radiologic Technologists (ARRT) certification examination and take and pass the examination.

The graduate must also complete an application to the TMB-MRT program, pay applicable fees, and furnish other documentation as required by the Texas Medical Board – MRT program. Once TMB has received your status report indicating that you passed and are in good standing with the ARRT, they will





**Summer Session II**

ENGL	1301	Composition	3
PSYC	2301	General Psychology	3
MATH	1314	College Algebra <b>or</b>	
	MATH	1332 Contemporary Math	3
<b>Total Hours</b>			<b>9</b>

**Fall Semester**

STSU	0300	Student Success	0
RADR	1266*	Practicum – Radiologic Technology/Science	2
RADR	1313*	Principles of Radiographic Imaging I	3
RADR	1411*	Basic Radiographic Procedures	4
RADR	2309*	Radiographic Imaging Equipment	3
<b>Total Hours</b>			<b>12</b>

**Spring Semester**

RADR	1267*	Practicum – Radiologic Technology/Science	2
RADR	2333*	Advanced Medical Imaging	3
RADR	2401*	Intermediate Radiographic Procedures	4
RADR	2305*	Principles of Radiographic Imaging II	3
<b>Total Hours</b>			<b>12</b>

**Second Year****Summer Session I**

RADR	2266*	Practicum – Radiologic Technology/Science	2
<b>Total Hours</b>			<b>2</b>

**Fall Semester**

RADR	1302*	Radiographic Image Evaluation I	3
RADR	2313*	Radiation Biology & Protection	3
RADR	2366*	Practicum – Radiologic Technology/Science	3
XXXX	x3xx	Creative Arts Core Elective	
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, <b>or</b> MUSI 1310	3
<b>Total Hours</b>			<b>12</b>

**Spring Semester**

RADR	1391*	Special Topics in Medical Rad. Technology	3
RADR	2335*	Radiologic Technology Seminar	3
RADR	2367*	Practicum – Radiologic Technology/Science	3
<b>Total Hours</b>			<b>9</b>
<b>Total Hours for Degree</b>			<b>64</b>

\* Prerequisites and corequisites required. See [course descriptions](#). Courses must be taken in sequence.

## **RESPIRATORY CARE PROGRAM**

The College offers a cooperative program with the area hospitals designed to provide understanding, proficiency, and skill in respiratory care. Upon successful completion of the program, the student is granted the Associate in Applied Science Degree, which qualifies the graduate to take the NBRC Therapist Multiple Choice Exam and become a Certified Respiratory Therapist (CRT) and after passing the Clinical Simulation Exam become a Registered Respiratory Therapist (RRT)

The program curriculum balances general education and technical courses with supervised clinicals at area hospitals. The curriculum provides the student with educational development and occupational competence during the two-year program. The student must achieve a "C" in all Respiratory Care courses and an overall "C" average in all coursework or be dropped from the program.

### **Respiratory Care Philosophy**

The Respiratory Care program functions within the parameters established by the Mission and Philosophy of Angelina College. Our mission is to provide quality education and services to enable students to develop their intellectual potential, achieve career proficiency, attain physical well-being, and enrich their social, cultural, and civic experiences.

Just as the College is committed to its mission through its philosophy, the Respiratory Care program embodies its significant tenets. We will instill the principles of scholarship and teach good citizenship. Through our Respiratory Care Program, we are committed to helping many diverse individuals prepare and maintain themselves for successful employment and living in a rapidly changing and highly technological world. The faculty is committed to diversified instruction that considers each individual's dignity and worth and encourages students to be creative and open-minded in their thinking and behavior. The Respiratory Care program is also committed to serving the general and dynamic needs of the changing medical community. Involvement and interaction between the College and the community are essential to ensure the relevance and vitality of the Respiratory Care program.

Respiratory Care is an interpersonal process that is a direct and indirect service to people. The respiratory care practitioner may perform activities ranging from assisting the physician to performing many therapeutic and diagnostic modalities.

As a respiratory care student, you should approach respiratory care education as a continuous process that leads to a change in behavior. A dedicated team of experienced faculty, respiratory therapists, and physicians fosters a creative and innovative approach to respiratory care by establishing an atmosphere conducive to learning. The faculty is committed to helping students identify, establish, and reach educational and personal goals in a climate of mutual acceptance and respect for individual differences. The student is encouraged to question, discuss, and seek more knowledge.

The program is designed to be skills-oriented and emphasizes direct patient contact. After completing the program, the graduate is eligible for the NBRC Therapist Multi Choice exam and is capable of adjusting techniques to allow for differences in patient condition and equipment, thus making them an attractive employment prospect for the East Texas area.

## Admissions Criteria – Respiratory Care Program

1. Gain admission to the college.
2. Attend a Respiratory Care Information Session is mandatory for admission to the Respiratory Care program where the student will get an application packet. The dates and times are posted on the [AC webpage](#).
3. Submit the completed application packet by designated date.
4. Complete all prerequisite courses listed below with a grade of “C” or better by designated date:
  - BIOL 2401 – Anatomy and Physiology I
  - BIOL 2402 – Anatomy and Physiology II
  - ENGL 1301 – English Composition
  - MATH 1314 – College Algebra
  - PSYC 2301 – General Psychology
  - RSPT 1201 – Intro to Respiratory Care
  - STSU 0300 – Student Success

Note: Prerequisite courses may be taken only twice for selection consideration. If a prerequisite course is taken more than twice, only the second grade will be calculated in the cumulative GPA for prerequisite courses. This second grade must be at least a “C.”

5. Complete required health forms and submit them with complete immunization records by July 1 for August consideration. A background check, random drug screening, and vaccines must be complete before the first week of clinical. A random drug screening will be required after **“conditional” acceptance** into the program. All expenses related to the health requirements, background check drug screenings, and the required online clinical documentation submissions are the student’s responsibility. “Conditional” acceptance into the Respiratory Care program is limited; applicants are ranked and selected based partially on the following criteria:
  - a. Cumulative GPA in RSPT 1201, MATH 1314, PSYC 2301, ENGL 1301, BIOL 2401 and BIOL 2402
  - b. Completion of all requirements by posted deadlines.
  - c. The student must be physically able to do the work of a Respiratory Therapist “See RC Handbook.”
  - d. Selection of the authorized students for “conditional” acceptance (approx. 12 – 18) is based on a point system of GPA from the prerequisite courses. Past certification in healthcare fields or completed college degrees could be considered. A final interview with Respiratory Care Faculty members is conducted with students who have completed all the admission requirements for the program.
6. Provide proof of current 2-year American Heart Association Health Care Provider CPR card.
7. **Applicants are notified of “conditional” acceptance decisions via Angelina College student email.**
8. **Students granted “conditional” entry into the program must notify the Respiratory Care Program via email that they accept or do not accept entry into the program.**
9. A random drug screening and background check must be done at the student’s expense and be negative to receive “full” acceptance into the Respiratory Care Program after fall entry.
10. Students are allowed one entry and one re-entry into the Respiratory Care Program.
11. Contact the Respiratory Care office at (936) 633-5267 for questions or comments.

### State Licensing Requirements

The State of Texas requires the Respiratory Care Practitioner (RCP) certification and/or registry through the Texas Medical Board.

The Respiratory Care Program conforms to state requirements by being accredited by the Commission on Accreditation for Respiratory Care (CoARC). The graduate must apply for the National Board for Respiratory Care (NBRC) Therapist Multiple Choice Examination, write and pass the examination. The graduate should authorize the NBRC to forward the information to the Texas Medical Board program.

The graduate must also complete an application to the TMB-RCP program, pay applicable fees, and furnish other documentation as required by the Texas Medical Board program. Once TMB-RCP has received the status report indicating that the student has passed and is in good standing from the NBRC, they will issue a Respiratory Care Practitioner Certificate (RCP), allowing them to work as a respiratory care practitioner in the state of Texas.

Students should be advised that any conviction of a felony or misdemeanor charge (other than a minor traffic violation/DUI is not a minor traffic violation) can make them ineligible for certification by the NBRC and subsequently by the State of Texas. The NBRC is the only agency that can address whether they will or will not allow an individual with a criminal record to write the examination. If in doubt, students should investigate the possibilities with the TMB by calling (512) 305-7030

## ***Associate of Applied Science in Respiratory Care***

### **Program Learning Outcomes (PLOs)**

After completing the AAS in Respiratory Care degree, students will be able to demonstrate competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs) as supported by the following goals:

PLO 1: Demonstrate entry-level skills for employment in the field.

PLO 2: Utilize critical thinking and problem-solving skills to direct the course of patient care.

PLO 3: Demonstrate professional behavior as a Respiratory Therapist.

PLO 4: Demonstrate life-long learning in the profession.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>				
<b>Courses</b>	<b>PLO 1</b>	<b>PLO 2</b>	<b>PLO 3</b>	<b>PLO 4</b>
RSPT 2325	X			
RSPT 2230		X		
RSPT 1411 Lab			X	
RSPT 1410 Lab				X

**Recommended Course Sequence:**

<b>Prerequisites</b>			<b>Credit Hours</b>
STSU	0300	Student Success	0
RSPT	1201	Introduction to Respiratory Care	2
MATH	1314	College Algebra	3
BIOL	2401	Anatomy & Physiology I	4
BIOL	2402	Anatomy & Physiology II	4
ENGL	1301	Composition I	3
PSYC	2301	General Psychology	3
<b>Total Hours</b>			<b>19</b>
<b>First Year</b>			
<b>Fall Semester</b>			
RSPT	1227	Applied Physics for Respiratory Care	2
RSPT	1340	Advanced Cardiopulmonary	3
RSPT	1410	Respiratory Care Procedures I	4
RSPT	1266	Respiratory Care Therapy Practicum I	3
<b>Total Hours</b>			<b>11</b>
<b>Spring Semester</b>			
RSPT	2210	Cardiopulmonary Disease	2
RSPT	2314	Mechanical Ventilation	3
RSPT	1411	Respiratory Care Procedures II	4
RSPT	1267	Respiratory Care Therapy Practicum II	3
<b>Total Hours</b>			<b>11</b>
<b>Summer I Semester</b>			
RSPT	2317	Respiratory Care Pharmacology	3
RSPT	2353	Neonatal Pedi Respiratory Care	3
RSPT	1261	Respiratory Care Clinical III	2
<b>Total Hours</b>			<b>8</b>
<b>Second Year</b>			
<b>Fall Semester</b>			
RSPT	1137	Basic Dysrhythmia Interpretation	1
RSPT	2255	Critical Care Monitoring	2
RSPT	2325	Cardiopulmonary Diagnostics	3
RSPT	2266	Respiratory Care Therapy Practicum IV	3
<b>Total Hours</b>			<b>8</b>
<b>Spring Semester</b>			
RSPT	2231	Simulations in Respiratory Care	2
RSPT	2230	Respiratory Care Examination Preparation	2
RSPT	2267	Respiratory Care Therapy Practicum V	2
XXXX	x3xx	Creative Arts Core	
		Choose from ARTS 1301, DRAM 1310, or MUSI 1306	3
<b>Total Hours</b>			<b>9</b>
<b>Total Hours for Degree</b>			<b>66</b>

\*Prerequisites and corequisites required. See [course descriptions](#). Courses must be taken in sequence.

## SURGICAL TECHNOLOGY PROGRAM

Surgical technologists are allied health professionals who are integral to the team of medical practitioners providing surgical care to patients. Surgical technologists work under the supervision of a surgeon to facilitate the safe and effective conduct of invasive surgical procedures, ensuring that the operating room environment is safe, that equipment functions properly, and that the operative procedure is conducted under conditions that maximize patient safety. Surgical technologists possess expertise in the theory and application of sterile and aseptic technique and combine the knowledge of human anatomy, surgical procedures, and implementation tools and technologies to facilitate a physician's performance of invasive therapeutic and diagnostic procedures.

Duties of a surgical technologist may include, but are not limited to:

- Preparation of the operating room by setting up surgical instruments and equipment, sterile drapes, and sterile solutions.
- Assembling sterile and non-sterile equipment and ensuring equipment is working properly.
- Preparing patients for surgery by preparing incision sites.
- Transporting patients to the operating room, positioning patients on the operating table, and covering the patients with sterile surgical “drapes.”
- Assisting during surgery in passing instruments and other sterile supplies to surgeons, holding retractors, cutting sutures, and applying dressings.
- Assisting in counting sponges, needles, supplies, and instruments before, during, and after surgical procedures.
- Preparing, caring for, and disposing of specimens.

The profession of surgical technology allows graduates to pursue employment in different surgical environments, including independently owned surgical centers, physician's offices, hospitals, hospital-owned surgical centers, and many more. The salary range varies depending on experience, certifications, and the area in which you are employed.

The following skills and abilities will be necessary for an individual applying for admission to the surgical technology program:

- Be an active listener and communicate verbally or in writing
- Possess a personal commitment to their education and the field of surgical technology
- Be conscientious, orderly, and emotionally stable
- Possess the ability to respond quickly, act independently, and as a functioning team member
- Manual dexterity to handle instruments quickly
- Possess the ability to handle the demands of the operating room environment
- Be professional, dependable, reliable, and a critical thinker
- Stay abreast of new developments in their field by continuing their education
- Responsible and able to work well under pressure
- Able to meet the emotional and physical needs of their patients
- Sensitive to the needs of people from a variety of cultures and backgrounds
- Able to keep information private
- Ability to stay calm in emergency situations
- Friendly and helpful to patients and staff

### Program Accreditation

Angelina College Surgical Technology Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 9355 - 113th St. N, #7709, Seminole, FL 33775; phone: 727-210-2350, [www.caahep.org](http://www.caahep.org).

### **Mission and Philosophy**

The Surgical Technology program, in concert with the mission and philosophy of Angelina College, is committed to providing a quality and comprehensive education in surgical technology for entry-level preparation into the profession.

1. To prepare entry-level Surgical Technologists who are competent in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains to enter the profession.
2. To produce graduates who are eligible and competent to pass the Certification for Surgical Technology (CST) examination upon completion of the program.
3. To promote and foster a desire for life-long learning and professional growth in each program graduate.
4. To provide students with academic and clinical instruction in the field of Surgical Technology to meet the employment needs of the graduate and medical communities.

### **Admission Criteria**

Although Angelina College has an open-door policy, specific programs in the College have **selected admission**. The surgical technology program (SRGT) has selected admission because more students apply to the program than the program can accommodate. To be eligible for consideration for selection, applicants for the SRGT program must meet the following admission criteria. **Meeting the criteria for selection does not guarantee admission to the program. Final selection will be based on the applicant pool and space available.**

The following are the Admission Criteria for the Surgical Technology program:

1. Gain admission to Angelina College  
Refer to the Angelina College Catalog and follow the steps outlined under "Admission Information."
  - Submit official high school transcripts, GED scores, and ALL previous college transcripts to Angelina College.
2. Pre-admission Tests
  - ALL students must comply with these admission criteria
  - Please contact the Angelina College Testing Center at 936-633-5495 or [ac\\_tc@angelina.edu](mailto:ac_tc@angelina.edu) for testing times and dates.
3. Required pre-requisite courses  
Must have all prerequisites completed with a grade of C or above by the end of the spring semester. SRGT 1405 – Introduction to Surgical Technology is a prerequisite course; up to sixteen (16) qualified applicants are chosen to participate in this course. Upon completion of SRGT 1405, the top 10-12 students are chosen to continue into the program, along with two alternates.

It is strongly suggested students complete BIOL 2420 – Microbiology before the summer I semester. This course must be completed by the end of the fall semester in the program or the student will be withdrawn from the surgical technology program.



**Some prerequisite courses may be taken during the program with approval by the program director. However, this does not include A&P I or II, Medical Terminology, Dosage Calculations, English, or Student Success.**

**Prerequisite courses may be taken only twice for selection consideration. If a prerequisite course is taken more than twice, only the second grade will be calculated in the cumulative GPA for prerequisite courses.**

4. **Attend a Surgical Technology Information Session**  
Applicants are required to attend an information session to obtain an application and receive further information. Dates for information sessions are published on the Angelina College website, and in local newspapers or may be obtained from the program at 936-633-5265, or 936-633-5275.
5. **Program Application**  
Submit a completed application with all required documents as listed on the front of the application packet by the designated date. This must include a complete American Heart Association BLS (CPR) card, copies of immunizations and titer results, an essay, and letters of reference.
6. **Ranking of Applicants**  
Acceptance into the surgical technology program is limited; therefore, if the application pool is larger than the maximum enrollment capacity, applicants may be ranked and selected based on a point system. The point system will be based upon completing an information session; former healthcare-related work experience and or certifications; completion of the required prerequisite courses with a minimum grade of "C" and completion of ALL requirements by the posted deadline. Applicants must be prepared to participate in an interview the second Monday after the application deadline.
7. **Interview**  
The top 16 applicants will be interviewed individually by an interview committee. Letters of reference are also encouraged and are given points for (maximum of 3).
8. **Essay**  
Each applicant is required to write a short essay on their interest in the surgical technology profession.  
**Essay Criteria:** Top of page – Name and date, title, 1-2 pages in length, double-spaced, sign the last page.
9. **Notification of Acceptance**  
Upon "conditional" acceptance to the program, a random drug screen and background check will be done at the student's expense. This is paid for through the student's Castle Branch account.
10. **Acceptance**  
Upon "conditional" acceptance to the program, a random drug screening and background check is conducted at the student's expense and paid for through the student's Castle Branch account.
11. **Drug Screening and Background Check**  
The drug screening and background check must be successful/negative to receive "full" acceptance into the Surgical Technology program.

12. Clinical Rotations

You must be 18 older before attending the 1 day of clinicals to participate in clinical rotations.

**Anyone convicted of a crime other than a minor traffic violation or hospitalized or treated for mental illness or chemical dependency must contact the program director for advisement. Any of these incidences can make you ineligible for certification by the National Board of Surgical Technology and Surgical Assisting (NBSTSA).**

***Associate of Applied Science in Surgical Technology***

**Program Learning Outcomes (PLOs)**

After completing the AAS in Surgical Technology degree, students will be able to:

PLO 1: Demonstrate entry-level competencies for employment in the profession.

PLO 2: Demonstrate the importance of the physical, interpersonal, and ethical aspects of the role of the surgical technologist.

PLO 3: Utilize critical thinking as a basis for decision-making in the role of a surgical technologist.

PLO 4: Assume accountability and responsibility for the quality of care provided to patients.

PLO 5: Recognize the importance of lifelong learning in the profession of surgical technology.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
<b>Courses</b>	<b>PLO 1</b>	<b>PLO 2</b>	<b>PLO 3</b>	<b>PLO 4</b>	<b>PLO 5</b>
SRGT 2360	X				
SRGT 1541		X			
SRGT 1405			X		
SRGT 1360				X	
SRGT 2130					X

## Recommended Course Sequence:

<b>First Semester – Prerequisite Courses</b>			<b>Credit Hours</b>
STSU	0300	Student Success	0
ENGL	1301	Composition I	3
MATH	1332	Contemporary Mathematics	3
BIOL	2401	Anatomy and Physiology I	4
HITT	1305	Medical Terminology	3
<b>Total Hours</b>			<b>13</b>
<b>Second Semester – Prerequisite Courses</b>			
BIOL	2402	Anatomy and Physiology II	4
PSYC	2301	General Psychology	3
RNSG	1208	Dosage Calculations	2
XXXX	x3xx	Creative Arts Core	
Choose from ARTS 1301, DRAM 1310, or MUSI 1306			3
<b>Total Hours</b>			<b>12</b>
<b>Summer I Semester – Prerequisite Courses</b>			
SRGT	1405	Introduction to Surgical Technology	4
BIOL	2420	Microbiology	4
<b>Total Hours</b>			<b>8</b>
<b>Summer II Semester</b>			
SRGT	1409	Fund. of Perioperative Concepts & Techniques	4
SRGT	1260	Clinical-Surgical Technologist I	2
<b>Total Hours</b>			<b>6</b>
<b>Fall Semester</b>			
SRGT	1541	Surgical Procedures I	5
SRGT	1542	Surgical Procedures II	5
SRGT	1360	Clinical-Surgical Technologist II	3
<b>Total Hours</b>			<b>13</b>
<b>Spring Semester</b>			
SRGT	1460	Clinical-Surgical Technologist II	4
SRGT	2360	Clinical-Surgical Technologist III	3
SRGT	2130	Professional Readiness (capstone course)	1
<b>Total Hours</b>			<b>8</b>
<b>Total hours for Degree</b>			<b>60</b>

## **SCHOOL OF SCIENCE AND MATH**

The Associate of Science (AS) degree is designed for students who plan to transfer to a four-year college or university to pursue a Bachelor of Science (BS) degree. Students working toward the Associate of Science degree will complete essential core requirements and electives based on their major emphasis and career goals. Students pursuing an AS should meet with an advisor to discuss specific course options based on the student's area of interest.

- **AS Engineering**
- **AS Health Science**
- **AS Multidisciplinary Studies**

## ENGINEERING

The Engineering program prepares students to transfer to a four-year institution to pursue a Bachelor of Science degree in Engineering. The first four semesters of classes are similar in the various engineering fields. Students must work closely with a success coach or advisor to select the best options for successfully transitioning to the selected four-year institution. An articulation agreement facilitates the transfer of the Associate of Science degree to the bachelor's degree in Biological and Agricultural Engineering at Texas A&M University.

### *Associate of Science in Engineering*

#### Program Learning Outcomes (PLOs)

After completing the AS in Engineering degree, students will be able to:

PLO 1: Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

PLO 2: Communicate effectively with a range of audiences.

PLO 3: Function effectively on a team whose members provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

PLO 4: Conduct appropriate experimentation, analyze and interpret data, and use engineering/science insights to draw conclusions.

PLO 5: Practice new techniques to solve engineering problems.

<b>Courses Measuring the Achievement of Program Learning Outcomes</b>					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
MATH (all)	X	X			X
PHYS 2425, 2426	X		X	X	X
ENGR 2301, 2302	X			X	X
ENGL 2311		X			
CHEM 1409			X	X	

#### Recommended Course Sequence:

##### First Year

##### First Semester

ENGL	1301	Composition I	3
HIST	1301	U. S. History I	3
MATH	2413	Calculus I	4
CHEM	1409	Chemistry for Engineering*	4

##### Credit Hours

			<b>Total Hours</b>	<b>14</b>
<b>Second Semester</b>				
ENGL	2311	Technical Writing		3
HIST	1302	United States History II		3
MATH	2414	Calculus II**		4
PHYS	2425	University Physics I**		4
			<b>Total Hours</b>	<b>14</b>
<b>Second Year</b>				
<b>First Semester</b>				
GOVT	2305	Federal Government		3
ENGL	23xx	Language, Philosophy, and Culture Core		
		Choose from ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, or 2351		3
PHYS	2426	University Physics II*		4
MATH	2415	Calculus III*		4
ENGR	2301	Statics*		3
			<b>Total Hours</b>	<b>17</b>
<b>Second Semester</b>				
GOVT	2306	Texas Government		3
PSYC	2301	General Psychology		3
ENGR	2302	Dynamics**		3
MATH	2320	Differential Equations**		3
MUSI	1306	Music Appreciation		3
			<b>Total Hours</b>	<b>15</b>

\*Fall only

\*\*Spring only

## HEALTH SCIENCE

### *Associate of Science in Health Science*

The Associate of Science (AS) degree is designed for students who plan to transfer to a four-year college or university to pursue a Bachelor of Science (BS) degree. Students working toward the Associate of Science in Health Science degree will complete essential core requirements and electives designed to give them a strong foundation in the health science curriculum, along with the professional skills to pursue a career in their area of specialization. Students pursuing an AS should meet with an advisor to discuss specific course options based on the student's area of interest.

#### Program Learning Outcomes (PLOs)

After completing the AS in Health Science degree, students will be able to:

PLO 1: Employ critical thinking skills to judge the validity of information from a scientific perspective.

PLO 2: Communicate effectively with a range of audiences.

PLO 3: Carry out the scientific method to formulate questions, analyze information/data, and draw conclusions.

PLO 4: Function effectively on a team whose members provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

PLO 5: Describe contemporary scientific essentials relevant to primary health care.

Courses Measuring the Achievement of Program Learning Outcomes					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
MATH	X	X	X		
SCIENCES	X	X	X	X	X
ENGL		X			
PHED 1304					X
PSYC 2314					X

#### Recommended Course Sequence:

##### First Year

##### First Semester

	Credit Hours
ENGL 1301 Composition I	3
HIST 1301 US History I	3
MATH 1314 College Algebra	3
BIOL 2401 Anatomy & Physiology I	4
EDUC/PSYC 1300 Learning Framework <b>or</b>	
STSU 0300 + SPCH 13XX Student Success and Speech	3

			<b>Total Hours</b>	<b>16</b>
<b>Second Semester</b>				
ENGL	1302	Composition II		3
HIST	1302	US History II		3
PSYC	2301	General Psychology		3
BIOL	2402	Anatomy & Physiology II		4
XXXX	x3xx	Creative Arts Core		
		Choose from ARTS 1301, DRAM 1310, MUSI 1306, <b>or</b> MUSI 1310	3	
			<b>Total Hours</b>	<b>16</b>
<b>Second Year</b>				
<b>First Semester</b>				
XXXX	x3xx*	Language, Philosophy, and Culture Core		
		Choose from ENGL 2322, 2323, 2327, 2328 2332, 2333, 2341, 2351, SPAN 2311, <b>or</b> 2312		3
GOVT	2305	Federal Government		3
PSYC	2314	Lifespan, Growth and Development		3
CHEM	1411	General Chemistry I		4
PHED	1304	Personal & Community Health		3
			<b>Total Hours</b>	<b>16</b>
<b>Second Semester</b>				
GOVT	2306	Texas Government		3
BIOL	1322	Nutrition & Diet Therapy		3
HITT	1305*	Medical Terminology <b>or</b>		
		PHED 1306* First Aid		3
SOCI	1301	Introduction to Sociology		3
			<b>Total Hours</b>	<b>12</b>
			<b>Total Hours for Degree</b>	<b>60</b>

\* Check with the receiving institution for specific degree requirements.



## MULTIDISCIPLINARY STUDIES

### *Associate of Science in Multidisciplinary Studies*

The Associate of Science (A.S.) degree is designed for students who plan to transfer to a four-year college or university to pursue a Bachelor of Science (B.S.) degree. Students working toward the Associate of Science degree will complete essential core requirements and electives based on their major emphasis and career goals. Students pursuing an A.S. should meet with an advisor to discuss specific course options based on the student's area of interest.

#### Program Learning Outcomes (PLOs)

After completing the AS in Multidisciplinary Studies degree, students will be able to:

PLO 1: Employ critical thinking skills to judge the validity of information from a scientific perspective.

PLO 2: Communicate effectively with a range of audiences.

PLO 3: Demonstrate mathematical techniques to evaluate and solve scientific problems.

PLO 4: Function effectively on a team whose members provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

PLO 5: Carry out the scientific method to formulate questions, analyze information/data, and draw conclusions.

Courses Measuring the Achievement of Program Learning Outcomes					
Courses	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
MATH	X	X	X		
SCIENCES	X	X	X	X	X
ENGL		X			

#### Recommended Course Sequence:

First Year	Credit Hours
<b>First Semester</b>	
ENGL 1301 Composition I	3
HIST 1301 U. S. History I	3
MATH xxxx MATH Elective*	3
EDUC/PSYC 1300 or STSU 0X00 + SPCH 131X or another Component Area Option course**	3
XXXX x4xx Life and Physical Sciences Core (Lecture + Lab) *	
Choose from BIOL 1406, 1407, 1411, 1413, 2420, CHEM 1411, 1412;	

	GEOL 1403, 1404; PHYS 1401, 1402, 2425, <b>or</b> PHYS 2426	4
	<b>Total Hours</b>	<b>16</b>
<b>Second Semester</b>		
ENGL	1302 Composition II	3
HIST	1302 United States History II	3
XXXX	x3xx Component Area Option**	3
XXXX	x4xx Life and Physical Sciences Core (Lecture + Lab) * Choose from BIOL 1406, 1407, 1411, 1413, 2420, CHEM 1411, 1412; GEOL 1403, 1404; PHYS 1401, 1402, 2425, <b>or</b> 2426	4
MATH	24xx Mathematics Core Choose from MATH 2412 <b>or</b> MATH 2413	4
	<b>Total Hours</b>	<b>17</b>
<b>Second Year</b>		
<b>First Semester</b>		
GOVT	2305 Federal Government	3
XXXX	xxxx Language, Philosophy, and Culture Core Choose from ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351, <b>or</b> SPAN 2312	3
XXXX	x4xx Life and Physical Sciences Core (Lecture + Lab) * Choose from BIOL 1406, 1407, 1411, 1413, 2420, CHEM 1411, 1412; GEOL 1403, 1404; PHYS 1401, 1402, 2425, <b>or</b> 2426	4
XXXX	x4xx Science <b>or</b> Math Elective* Choose from BIOL 1406, 1407, 1411, 1413, 2420, CHEM 1411, 1412; GEOL 1403, 1404; PHYS 1401, 1402, 2425, 2426; MATH x4xx; <b>or</b> CHEM 2289 in both fall (2 credits) and spring (2 credits)**	4
	<b>Total Hours</b>	<b>14</b>
<b>Second Semester</b>		
GOVT	2306 Texas Government	3
XXXX	x4xx Science <b>or</b> Math Elective* Choose from BIOL 1406, 1407, 1411, 1413, 2420, CHEM 1411, 1412; GEOL 1403, 1404; PHYS 1401, 1402, 2425, 2426; <b>or</b> MATH X4XX	4
XXXX	x3xx Social and Behavioral Science Core Choose from PSYC 2301, PSYC 2314, SOCI 1301, <b>or</b> ECON 2301	3
XXXXx3xx	Creative Arts Core Choose from ARTS 1301, DRAM 1310, MUSI 1306 <b>or</b> MUSI 1310	3
	<b>Total Hours</b>	<b>13</b>
	<b>Total Hours for Degree</b>	<b>60</b>

\* Check your transfer institution for specific degree requirements. See below for recommended courses based on area of concentration.

\*\* Choose from BIOL 14XX, 24XX; BUSI 2304; CHEM 1305, 1411, 1412; ECON 2301; ENGL 23XX; GEOL 1403, 1404; MATH 13XX, 2412, 2413; PHYS 1305, 1401, 1402, 2425, 2426; PSYC 2301, 2314; SPAN 2311; SPCH 1315, 1318, 1321; **or** SOCI 1301.

\*\*In addition to these four courses, students should repeat CHEM 2289 if they completed CHEM 2289 in place of the Science or Math elective in the fall.

## WORKFORCE OF CONTINUING EDUCATION

The Workforce & Continuing Education (WCE) division offers workforce education programs that provide training for health professionals, peace officers, firefighters, heavy equipment operators, truck drivers, manufacturers, aspiring entrepreneurs, small business owners, and more.

The Risk Management and Safety program provides low-cost training in CPR, OSHA, and other related topics. WCE also supports local small and large businesses by helping them access grant funding to train current employees.

- [Adult Education & Literacy Center](#)
- [Nonprofit Leadership Center](#)
- [Small Business Development Center](#)
- [Stand-Alone Certificates](#)

### **Allied Health** - <https://www.angelina.edu/allied-health/>

Allied health programs offer you the chance to assist patients, healthcare organizations, and healthcare professionals. Allied health professionals are involved in assessing, evaluating, treating, and preventing disease in collaboration with various health professionals. Individuals with many different skills and knowledge levels can succeed in these areas.

- EKG technician
- Medical assistant
- Nurse aide
- Phlebotomy
- Patient care technician
- Medication aide

### **Business and Industry** - <https://www.angelina.edu/business-industry-programs/>

Get the skills you need to work toward a lucrative new career, improve your skills, or run your own business. Technology courses keep pace with the fast-moving world of technology and workforce training needs.

- Corporate training
- Heavy equipment operator
- Truck driving academy (class a CDL, class b CDL, & endorsements)

### **Public Safety** - <https://www.angelina.edu/public-safety/>

Public Safety programs offer students the chance to gain employment or promotion within public or private agencies that maintain public safety, prevent crime, apprehend or rehabilitate criminals, and ensure social welfare. Individuals will learn the practical and cognitive skills required to effectively and safely protect citizens.

- Fire academy
- Law enforcement academy
- Private security officer

- 9-1-1 dispatcher
- Jailer
- Firefighter continuing education
- Law enforcement in-service training

**Risk Management & Safety - <https://www.angelina.edu/risk-management-programs/>**

The risk management & safety program at Angelina College was created with donations from Texas Mutual Insurance Company to provide the community and employers with safety-related training to promote a safer and healthier community and workforce for the Angelina College 12-county service area.

- Basic safety & communication skills for industry
- CPR – basic life support (healthcare professionals)
- CPR + AED (non-healthcare professionals)
- First aid
- Caregiver support
- Forklift operator
- Osha general industry programs
- Corporate safety training

## COURSE DESCRIPTIONS

**ACCT 2301 – Principles of Accounting I.** 3 credit hours. This course is an introduction to the fundamental concepts of financial accounting as prescribed by US generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholders' equity to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities and owner's equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS). Prerequisite: Meet TSI college readiness standards for mathematics. 48 lecture hours.

**ACCT 2302 – Principles of Accounting II.** 3 credit hours. A continuation of ACCT 2301. This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on identification and assignment of product costs, operational budgeting and planning, cost control, and management decision making. Topics include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation. Prerequisite: ACCT 2301 or equivalent. 48 lecture hours.

**ACNT 1303 – Introduction to Accounting I.** 3 credit hours. A study of analyzing, classifying, and recording business transactions in both a manual and a computerized environment. Emphasis is on understanding the complete accounting cycle and preparing financial statements, bank reconciliations, and payroll. Does not meet requirements for Associate of Science or BBA degree. 48 lecture hours.

**ACNT 1311 – Introduction to Computerized Accounting.** 3 credit hours. Introduction to utilizing the computer in maintaining accounting records, with primary emphasis on a general ledger package. Prerequisite: ACNT 1303 or equivalent, plus typing skills. 48 lecture hours and 16 lab hours. Lab fee.

**ARCE 1452 – Structural Drafting.** 4 credit hours. A study of structural systems including concrete foundations and frames, wood framing and trusses, and structural steel framing systems. Includes detailing of concrete, wood, and steel designed to meet industry standards including the American Institute of Steel Construction and the American Concrete Institute, with emphasis on framed and seated connectors, beam and column detailing, including units on concrete detailing conforming to the American Concrete Institute. 32 lecture and 64 lab hours. Lab fee. Prerequisite: DFTG 1409.

**ARCE 2452 – Mechanical and Electrical Systems.** 4 credit hours. The properties of building materials (assemblies), specifications, codes, vendor references and uses of mechanical, plumbing, conveying, and electrical systems as they relate to architecture for residential and commercial construction. 32 lecture and 64 lab hours. Lab fee. Prerequisite: DFTG 1417.

**ARTC 1192 – Special Topics in Design and Visual Communication.** 1 credit hour. Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. 32 lab hours. Lab fee.

**ARTC 1327 – Typography.** 3 credit hours. A study of letterforms and typographic concepts as elements of graphic communication. Emphasis on developing a current, practical typographic knowledge based on industry standards. 32 lecture hours and 64 lab hours. Lab fee.

**ARTC 1402 – Digital Imaging I.** 4 credit hours. Digital imaging using raster image editing and/or image creation software: scanning, resolution, file formats, output devices, color systems, and image-acquisitions. 32 lecture hours and 64 lab hours. Prerequisite: COMM 1318. Lab fee. A grade of B or better is required in this class to enroll in IMED 2266 Practicum (or Field Experience). Lab fee.

**ARTC 1413 – Digital Publishing I.** 4 credit hours. The fundamentals of using digital layout as a primary publishing tool and the basic concepts and terminology associated with typography and page layout. Prerequisite: COMM 1318. A grade of B or better is required in this class to enroll in IMED 2266 Practicum (or field experience). 32 lecture and 64 lab hours. Lab fee.

**ARTC 2388 – Internship – Commercial & Advertising Art.** 3 credit hours. A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the College and the employer. 144 contact hours.

**ARTC 2405 – Digital Imaging II.** 4 credit hours. Principals of digital image processing and digital painting. Emphasis on raster-based imaging and the creative aspects of electronic illustration for commercial or fine art applications. Prerequisite: ARTC 1402. A grade of B or better is required in this class to enroll in IMED 2266 Field Experience. 32 lecture and 64 lab hours. Lab fee.

**ARTC 2413 – Digital Publishing II.** 4 credit hours. Includes layout procedures from thumbnails and roughs to final comprehensive and print output. Emphasis on design principles for the creation of advertising and publishing materials, and techniques for efficient planning and documenting projects. Prerequisite: ARTC 1413. A grade of B or better is required in this class to enroll in IMED 2266 Field Experience. 32 lecture and 64 lab hours. Lab fee.

**ARTS 1301 – Art Appreciation.** 3 credit hours. A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts. 48 lecture hours.

**ARTS 1303 – Art History I (Prehistoric to the 14<sup>th</sup> Century).** 3 credit hours. A chronological analysis of the historical and cultural contexts of the visual arts from prehistoric times to the 14th century. 48 lecture hours.

**ARTS 1304 – Art History II (14<sup>th</sup> Century to the Present).** 3 credit hours. A chronological analysis of the historical and cultural contexts of the visual arts from the 14th century to the present day. 48 lecture hours.

**ARTS 1311 – Design I (2-Dimensional).** 3 credit hours. An introduction to the fundamental terminology, concepts, theory, and application of two-dimensional design. 32 lecture hours and 64 lab hours. Lab fee.

**ARTS 1316 – Drawing I.** 3 credit hours. A foundation studio course exploring drawing with emphasis on descriptive, expressive, and conceptual approaches. Students will learn to see and interpret a variety of subjects while using diverse materials and techniques. Coursework will facilitate a dialogue in which students will engage in critical analysis and begin to develop their understanding of drawing as a discipline. 32 lecture and 64 lab hours. Lab fee.

**ARTS 2316 – Painting I.** 3 credit hours. Exploration of ideas using painting media and techniques. 32 lecture and 64 lab hours each week. Prerequisite: ARTS 1311 and 1316 or consent of instructor. Lab fee.

**ARTS 2323 – Life Drawing.** 3 credit hours. Basic study of the human form. 32 lecture and 64 lab hours. Prerequisite: ARTS 1316 or consent of instructor. Lab fee.

**ARTS 2348 – Digital Arts I.** 3 credit hours. Studio course that explores the potential of the computer hardware and software medium for their visual, conceptual, and practical uses in the visual arts. 32 lecture and 64 lab hours. Prerequisites: ARTS 1316 and ARTS 1311 or instructor approval. Lab fee.

**ARTS 2356 – Photography I (Graphic Arts emphasis).** 3 credit hours. Introduction to the basics of photography, which includes camera operation, techniques, knowledge of chemistry, and presentation skills. In addition, emphasis on design, history, and contemporary trends as a means of developing an understanding of photographic aesthetics will be discussed. Cross-listed with journalism emphasis as COMM 1318. 32 lecture hours and 48 lab hours. Lab fee.

**ARTS 2366 – Watercolor Painting.** 3 credit hours. Exploration of ideas using water-based painting media and techniques. Conceptual development through transparent paint; work in transparent and non-transparent aqua-based media on paper surfaces. 32 lecture and 64 lab hours. Lab fee.

**ARTV 1351 – Digital Video.** 4 credit hours. Producing and editing video and sound for multimedia or Web productions. Emphasizes capture, editing, and outputting of video using a desktop digital video workstation. 32 lecture and 64 lab hours. Prerequisite: ARTS 2373 or instructor approval. Lab fee.

**AUMT 1407 – Automotive Electrical Systems.** 4 credit hours. An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of charging and starting systems, and electrical accessories. Emphasis on electrical principles schematic diagrams, and service manuals. May be taught manufacturer specific. Utilizing appropriate safety measures, the student will define basic electrical principles; interpret wiring schematics and symbols; explain operation of batteries, starting/charging systems, and automotive circuits; use test equipment; and perform basic electrical repairs. Concurrent enrollment in AUMT 1410. 32 lecture and 96 lab hours. Lab fee.



**AUMT 1410 – Automotive Brake Systems.** 4 credit hours. Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, and anti-lock brake systems, and parking brakes. May be taught manufacturer specific. Utilizing appropriate safety measures, the student will explain operation of modern brake systems and diagnose and repair hydraulic systems, drum/disc brake systems, and anti-lock brake systems. Concurrent enrollment in AUMT 1407. 32 lecture and 96 lab hours. Lab fee.

**AUMT 1416 – Suspension and Steering.** 4 credit hours. Diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures and tire and wheel service. May be taught manufacturer specific. Utilizing appropriate safety measures, the student will explain operations of suspension and steering systems; diagnose and repair system components including electronically controlled systems; perform wheel alignment procedures; and perform tire service and repair. Prerequisite: AUMT 1407. 32 lecture and 96 lab hours. Lab fee.

**AUMT 1419 – Automotive Engine Repair.** 4 credit hours. Fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, disassembly, repair, and reassembly of the engine. May be taught manufacturer specific. Utilizing appropriate safety measures, the student will explain engine operating principles, demonstrate engine diagnostic procedures: cylinder head, valve train, block assembly, lubrication, and cooling systems. 32 lecture and 96 lab hours. Lab fee.

**AUMT 1445 – Automotive Climate Control Systems.** 4 credit hours. Diagnosis and repair of manual/electronic climate control systems; includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific. The student will use safety procedures including proper refrigerant handling; explain the refrigeration cycle; and diagnose and repair systems. Prerequisites: AUMT 1407. 32 lecture and 96 lab hours. Lab fee.

**AUMT 2417 – Engine Performance Analysis I.** 4 credit hours. Theory, operation, diagnosis of drivability concerns, and repair ignition and fuel delivery systems. Use of current engine performance diagnostic equipment. May be taught manufacturer specific. Utilizing appropriate safety measures, the student will explain engine dynamics; diagnose and repair ignition system and fuel delivery systems and use current engine performance diagnostic equipment. Prerequisite/corequisite: AUMT 1407. 32 lecture and 96 lab hours. Lab fee.

**AUMT 2425 – Automotive Automatic Transmission and Transaxle.** 4 credit hours. A study of the operation, hydraulic principles, and electronic controls of modern automatic transmissions, manual transmissions and automatic and manual transaxles, transfer cases and differentials. Diagnosis, disassembly and assembly procedures with emphasis on the use of special tools and proper repair techniques. May be taught manufacturer specific. Utilizing appropriate safety measures, the student will diagnose, service, adjust and repair automatic transmissions/transaxles, manual transmissions/transaxles, transfer cases and differentials. Prerequisite: AUMT 1407. 32 lecture and 96 lab hours. Lab fee.

**AUMT 2434 – Automotive Engine Performance Analysis II.** 4 credit hours. Diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems. Includes use of advanced engine performance diagnostic equipment. May be taught manufacturer

specific. Utilizing appropriate safety measures, the student will diagnose and repair emission control systems; computerized engine performance systems, and advanced ignition and fuel systems; and use of advanced engine performance diagnostic equipment. Prerequisite: AUMT 2417. 32 lecture and 96 lab hours. Lab fee.

**AUMT 2480 – Cooperative Education – Automotive Technology.** 4 credit hours. Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the College, employer and student. Under the supervision of the College and the employer, the student combines classroom learning with work experience including a lecture component. The work experience consists of approximately three hundred twenty hours of on-the-job training. As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. Fulltime hours each week at a local dealership. Prerequisites: Completion of all AUMT lecture and lab courses with a grade of "C" or better. Capstone experience.

**BCIS 1305 – Business Computer Applications.** 3 credit hours. Introduces and develops foundational skills in applying essential and emerging business productivity information technology tools. The focus of this course is on business productivity software applications, including word processing, spreadsheets, databases, presentation graphics, data analytics, and business-oriented utilization of the internet. 48 lecture and 16 lab hours.

**BIOL 1322 – Nutrition & Diet Therapy.** 3 credit hours. This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism. Food safety, availability, and nutritional information including food labels, advertising, and nationally established guidelines are addressed (Cross-listed as HECO 1322). 48 lecture hours.

**BIOL 1406 – Biology for Science Majors I (Lecture + Lab).** 4 credit hours. Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. The laboratory portion of the course will reinforce the fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Study and examination of the concepts of cytology, reproduction, genetics, and scientific reasoning are included. This course is designed for science or related majors. 48 lecture and 48 lab hours. Lab fee.

**BIOL 1407 – Biology for Science Majors II (Lecture + Lab).** 4 credit hours. The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. The laboratory portion of the course will reinforce study of the diversity and classification of life, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Recommended prerequisite: BIOL 1406. 48 lecture and 48 lab hours. Lab fee.

**BIOL 1408 – Biology for Non-science Majors I (Lecture + Lab).** 4 credit hours. Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. The laboratory portion of this course will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. THIS COURSE IS NOT INTENDED FOR SCIENCE MAJORS. 48 lecture and 48 lab hours. Lab fee.

**BIOL 1409 – Biology for Non-science Majors II (Lecture + Lab).** 4 credit hours. This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. The laboratory portion of this course will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. THIS COURSE IS NOT INTENDED FOR SCIENCE MAJORS. 48 lecture and 48 lab hours. Lab fee.

**BIOL 1411 – General Botany (Lecture + Lab).** 4 credit hours. Fundamental biological concepts relevant to plant physiology, life cycle, growth and development, structure and function, and cellular and molecular metabolism. The role of plants in the environment, evolution, and phylogeny of major plant groups, algae, and fungi is also included. The laboratory portion of this course will reinforce fundamental biological concepts relevant to plant physiology, life cycle, growth and development, structure and function, and cellular and molecular metabolism. The role of plants in the environment, evolution, and phylogeny of major plant groups, algae, and fungi is also included. (This course is intended for Science Majors). 48 lecture and 48 lab hours. Lab fee.

**BIOL 1413 – General Zoology (Lecture + Lab).** 4 credit hours. Fundamental biological concepts relevant to animals, including systematics, evolution, structure and function, cellular and molecular metabolism, reproduction, development, diversity, phylogeny, and ecology. The laboratory portion of this course will reinforce fundamental biological concepts relevant to animals, including systematics, evolution, structure and function, cellular and molecular metabolism, reproduction, development, diversity, phylogeny, and ecology. (This course is intended for Science Majors). 48 lecture and 48 lab hours. Lab fee.

**BIOL 2106 – Environmental Biology Laboratory.** 1 credit hour. Laboratory activities will reinforce principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research. 48 lab hours. Corequisite: BIOL 2306. Lab fee.

**BIOL 2306 – Environmental Biology (Lecture + Lab).** 3 credit hours. Principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research. Corequisite: BIOL 2106. 48 lecture hours.

**BIOL 2401 – Anatomy and Physiology I (Lecture + Lab).** 4 credit hours Anatomy and Physiology, is the first part of a two-course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The lab provides a hands-on learning experience for exploration of

human system components and basic physiology. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture and 48 lab hours. Lab fee.

**BIOL 2402 – Anatomy and Physiology II (Lecture + Lab).** 4 credit hours. Anatomy and Physiology II is the second part of a two-course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Prerequisite: Meet TSI college readiness standards for reading and writing; Grade of C or better in BIOL 2401. 48 lecture and 48 lab hours. Lab fee.

**BIOL 2404 – General Anatomy and Physiology (Lecture + Lab).** 4 credit hours. Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture and 48 lab hours. Lab fee.

**BIOL 2420 – Microbiology for Non-science Majors (Lecture + Lab).** 4 credit hours. This course covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors and covers the basics of microbiology. It provides an introduction to historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and acellular agents in the biosphere, and their roles in human and animal diseases. Major topics include bacterial structure as well as growth, physiology, genetics, and biochemistry of microorganisms. Emphasis is on medical microbiology, infectious diseases, and public health. The laboratory portion of this course covers basics of culture and identification of bacteria and microbial ecology. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture and 48 lab hours. Lab fee.

**BIOL 2421 – Microbiology for Science Majors (Lecture + Lab).** 4 credit hours. Principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment. The laboratory portion of the course will reinforce principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The lab will also examine the interactions of microbes with each other, hosts, and the environment. Prerequisites: CHEM 1411, BIOL 1406 and BIOL 1407 or BIOL 1411 and BIOL 1413. 48 lecture and 48 lab hours. Lab fee.

**BMGT 1301 – Supervision.** 3 credit hours. A study of the role of the supervisor. Includes managerial functions as applied to leadership, counseling, motivation, and human relations skills are examined. 48 lecture hours.

**BMGT 1327 Principles of Management.** 3 credit hours. Concepts, terminology, principles, theories, and issues in the field of management. 48 lecture hours. This is a capstone course.

**BMGT 1341 Business Ethics.** 3 credit hours. Discussion of ethical issues, the development of moral frame of reference, and the need for an awareness of social responsibility in management practices and business activities. Includes ethical corporate responsibility. 48 lecture hours.

**BMGT 2303 Problem Solving and Decision Making.** 3 credit hours. Decision-making and problem-solving processes in organizations utilizing logical and creative problem-solving techniques. Application of theory is provided by experiential activities using managerial decision tools. 48 lecture hours.

**BUSG 1380, 1381 – Cooperative Education I & II – Business/Commerce, General.** 3 credit hours. Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the College, employer and student. Under the supervision of the College and the employer, the student combines classroom learning with work experience. 16 lecture and 224 hours on the job. BUSG 1381 is a capstone course.

**BUSG 2309 – Small Business Management.** 3 credit hours. Starting, operating, and growing a small business. Includes essential management skills, how to prepare a business plan, accounting, financial needs, staffing, marketing strategies, and legal issues. 48 lecture hours.

**BUSI 1301 – Business Principles.** 3 credit hours. This course provides a survey of economic systems, forms of business ownership, and considerations for running a business. Students will learn various aspects of business, management, and leadership functions; organizational considerations; and decision-making processes. Financial topics are introduced, including accounting, money and banking, and securities markets. Also included are discussions of business challenges in legal and regulatory environment, business ethics, social responsibility, and international business. Emphasized is the dynamic role of business in everyday life. 48 lecture hours.

**BUSI 2301 – Business Law.** 3 credit hours. The course provides the student with foundational information about the US legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the US Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context. Prerequisite: sophomore standing or approval of the Dean. 48 lecture hours.

**BUSI 2304 – Business Report Writing and Correspondence.** 3 credit hours. Theory and applications for technical reports and correspondence in business. Includes an oral component. 48 lecture hours. This is a capstone course.

**BUSI 2305 – Business Statistics.** 3 credit hours. Descriptive and inferential statistical techniques for business and economic decision-making. Topics include the collection, description, analysis, and summarization of data; probability; discrete and continuous random variables; the binomial and normal distributions; sampling distributions; tests of hypotheses; estimation and confidence intervals; linear regressions; and correlation analysis. Statistical software is used to analyze data throughout the course. Prerequisite: MATH 1324 and BCIS 1305. 48 lecture hours.

**CDEC 1359 – Children with Special Needs.** 3 credit hours. A survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, intervention strategies, available resources, referral processes, the advocacy role, and legislative issues. 48 lecture hours.

**CDEC 1413 – Curriculum Resources for Early Childhood Programs.** 4 credit hours. A study of the fundamentals of developmentally appropriate curriculum design and implementation in early care and education programs for children birth through age eight. The course includes 32 hours of field experiences and 48 lecture hours. Lab fee.

**CDEC 1417 – Child Development Associate Training I.** 4 credit hours. Based on the requirements for the Child Development Associate credential (CDA). Topics include CDA overview, observation skills, and child growth and development. The four functional areas of study are creative, cognitive, physical, and communication. The course includes 32 hours of field experiences and 48 lecture hours. Lab fee.

**CDEC 1419 – Child Guidance.** 4 credit hours. An exploration of guidance strategies for promoting pro-social behaviors with individual and groups of children. Emphasis on positive guidance principles and techniques, family involvement, and cultural influences. The course includes 32 hours of field experiences and 48 lecture hours. Lab fee.

**CDEC 1421 – The Infant & Toddler.** 4 credit hours. A study of appropriate infant and toddler programs (birth to age 3), including an overview of development, quality routines, learning environments, materials and activities, and teaching/guidance techniques. The course includes 32 hours of field experiences and 48 lecture hours. Lab fee.

**CDEC 1458 – Creative Arts for Early Childhood.** 4 credit hours. An exploration of principles, methods, and materials for teaching music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking for children birth through age eight. The course includes 32 hours of field experiences and 48 lecture hours. Lab fee.

**CDEC 2422 – Child Development Associate Training II.** 4 credit hours. A continuation of the study of the requirements for the Child Development Associate credential (CDA). The six functional areas of study include safe, healthy, learning environment, self, social, and guidance. The course includes 32 hours of field experiences and 48 lecture hours. Lab fee.

**CDEC 2424 – Child Development Associate Training III.** 4 credit hours. Continuation of the requirements for the Child Development Associate credential (CDA). The three functional areas of study include family, program management and professionalism. The course includes 32 hours of field experiences and 48 lecture hours. Lab fee.

**CDEC 2426 – Administration of Programs for Children I.** 4 credit hours. Application of management procedures for early care and education programs. Includes planning, operating, supervising, and evaluating programs. Topics cover philosophy, types of programs, policies, fiscal management, regulations, staffing, evaluation, and communication. The course includes 32 hours of field experiences and 48 lecture hours. Lab fee.

**CETT 1304 – High Reliability Soldering.** 3 credit hours. High reliability soldering, desoldering, circuitry repair, plated-thru-hole repairs, conformal coating removal, industry standards, electrostatic discharge (ESD) control, surface mount device (SMD) installation, removal and replacement using hand held systems or reflow workstations. Students will be able to Solder to industry standards; desolder connections; install surface mount devices; remove surface mount devices; remove conformal coatings; repair and/or replace traces, pads, and eyelets. 32 lecture and 32 lab hours. Lab fee. J-STD-001 Exam Certification Fee.

**CETT 1321 – Electronic Fabrication.** 3 credit hours. A study of electronic circuit fabrication techniques including printed circuit boards, wire wrapping, bread boarding, and various soldering techniques. Apply electronic circuit fabrication techniques to industry standards; document step-by-step procedures; create schematic/wiring diagrams; apply circuit description; identify the tools required to produce a printed circuit board; and produce soldering connections. 32 lecture and 32 lab hours. Lab fee. IPC/WHMA-A-620 Exam Certification Fee.

**CETT 1409 – DC-AC Circuits.** 4 credit hours. Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques. Students will construct and analyze DC and AC circuits from simple to complex; perform test measurements; and utilize a multimeter and oscilloscope to differentiate between two AC signals with respect to voltage, current, and power. Corequisite: TECM 1301. 48 lecture and 32 lab hours. Lab fee.

**CETT 1425 – Digital Fundamentals.** 4 credit hours. An entry level course in digital electronics to include numbering systems, logic gates, Boolean algebra, and combinational logic. Students will be able to construct digital circuits such as combinational logic circuits, clocking and timing circuits, and troubleshoot various digital circuits using schematic diagrams. Students will be able to construct various control systems using digital logic and interface circuitry. Corequisite: TECM 1301. 32 lecture and 32 lab hours. Lab fee.

**CETT 1449 – Digital Systems.** 4 credit hours. An entry level course in digital electronics to include numbering systems, logic gates, Boolean algebra, and combinational logic. Students will be able to construct digital circuits such as combinational logic circuits, clocking and timing circuits, and troubleshoot various digital circuits using schematic diagrams. Students will be able to construct various control systems using digital logic and interface circuitry. Prerequisite: CETT 1425. 32 lecture and 32 lab hours. Lab fee.

**CETT 1457 – Linear Integrated Circuits.** 4 credit hours. A study of the characteristics, operations and testing of linear integrated circuits. Applications include instrumentation and active filtering. Students will construct and troubleshoot circuits containing linear integrated circuits. Prerequisite: CETT 1409. 48 lecture and 32 lab hours. Lab Fee.

**CETT 2337 – Microcomputer Control.** 3 credit hours. A study of microprocessors and microcomputers with an emphasis on embedded controllers for industrial and commercial applications. Students will be able to interface a microcontroller to monitor and control an industrial application. 32 lecture and 32 lab hours. Lab fee.

**CETT 2381 – Cooperative Education.** 3 credit hours. Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the College, employer, and

student. Under the supervision of the College and the employer, the student combines classroom learning with work experience. Includes a lecture component. As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry; and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. 15 lecture and 320 lab hours. Prerequisite: Approval of advisor, and must have a GPA of 3.00 or higher.

**CETT 2435 – Advanced Microprocessors.** 4 credit hours. An advanced course utilizing the microprocessor in control systems and interfacing. Emphasis on microprocessor hardware and implementation of peripheral interfacing. Students will be able to design a microprocessor-controlled interface; assemble hardware; write program to perform a practical application; explain the operation of a programmable interfacing chip; and configure a programmable interfacing chip. Prerequisite: CETT 1349. 32 lecture and 64 lab hours. Lab fee.

**CETT 2437 – Microcomputer Control.** 4 credit hours. A study of microprocessors and microcomputers with an emphasis on embedded controllers for industrial and commercial applications. Students will be able to interface a microcontroller to monitor and control an industrial application. Prerequisite: CETT 1409. 32 lecture and 64 lab hours. Lab fee.

**CHEM 1105 – Introductory Chemistry Lab I.** 1 credit hour. Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students. 48 lab hours. Prerequisite or corequisite: CHEM 1305. Lab fee.

**CHEM 1305 – Introductory Chemistry I.** 3 credit hours. Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students. 48 lecture hours.

**CHEM 1409 – General Chemistry for Engineering Majors (Lecture + Lab).** 4 credit hours. Fundamental principles of chemistry for engineering majors; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, acid-base concepts, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, phase-diagrams, introduction to chemical equilibrium, chemical thermodynamics, electrochemistry, and an introduction to descriptive inorganic chemistry and organic chemistry. The lab includes basic laboratory experiments supporting theoretical principles presented in the lecture; introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports. Prerequisite: MATH 1314 College Algebra or equivalent academic preparation. 48 lecture and 48 lab hours. Lab fee.

**CHEM 1411 – General Chemistry I (Lecture + Lab).** 4 credit hours. Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of



gases, and an introduction to thermodynamics and descriptive chemistry. Basic laboratory experiments supporting theoretical principles presented in the lecture component; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports. Prerequisite: MATH 1314 College Algebra or equivalent academic preparation. 48 lecture and 48 lab hours. Lab fee.

**CHEM 1412 – General Chemistry II (Lecture + Lab).** 4 credit hours. Chemical equilibrium; phase diagrams and spectrometry; acid base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry. Basic laboratory experiments supporting theoretical principles presented in the lecture component; introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports. Prerequisite: Must have passed CHEM 1411 General Chemistry I (Lecture + Lab) or CHEM 1409 (Lecture + Lab), an equivalent transfer course with a C or better. 48 lecture and 48 lab hours. Lab fee.

**CHEM 2289-Academic Cooperative.** 2 credit hours. An instructional program designed to integrate on-campus study with practical hands-on work experience in the physical sciences. In conjunction with class seminars, the individual students will set specific goals and objectives in the scientific study of inanimate objects, processes of matter and energy, and associated phenomena. May be repeated up to 4 credits. Instructor approval required.

**CJLE 1329 – Basic Peace Officer V.** 3 hours credit. Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, III, and IV. This course may be offered only by institutions licensed as a police academy by Texas Commission on Law Enforcement. 32 lecture and 32 lab hours. Program acceptance required.

**CJLE 1506 – Basic Peace Officer I.** 5 hours credit. Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer II, III, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Training Academy. This course may be offered only by institutions licensed as a police academy by Texas Commission on Law Enforcement. 48 lecture and 128 lab hours. Program acceptance required.

**CJLE 1512 – Basic Peace Officer II.** 5 hours credit. Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, III, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Academy. This course may be offered only by institutions licensed as a police academy by Texas Commission on Law Enforcement. 48 lecture and 128 lab hours. Program acceptance required.

**CJLE 1518 – Basic Peace Officer III.** 5 hours credit. Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, II, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Academy. This course may be offered only by institutions licensed as a police academy by Texas Commission on Law Enforcement. 48 lecture and 128 lab hours. Program acceptance required.

**CJLE 1524 – Basic Peace Officer IV.** 5 hours credit. Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, II, III, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Training Academy. This course may be offered only by institutions licensed as a police academy by Texas Commission on Law Enforcement. 48 lecture and 128 lab hours. Program acceptance required.

**COMM 1316 – News Photography I.** 3 credit hours. Problems and practices of photography for newspapers. Includes instruction in camera and equipment operation and maintenance, film and plate developing, and printing media. 32 lecture and 48 lab hours. Lab fee.

**COMM 1318 – Photography I (Journalism emphasis).** 3 credit hours. Introduction to the basics of photography including techniques and equipment operation. Cross-listed with graphic arts emphasis, as ARTS 2356. 32 lecture and 48 lab hours. Lab fee.

**COMM 1335 – Introduction to Electronic Media.** 3 credit hours. An overview of the development, regulation, economics, social impact, and industry practices in electronic media. Prerequisite: COMM 1307 and sophomore standing. 48 lecture hours.

**COMM 2305 – Editing and Layout.** 3 credit hours. Editing and layout processes, with emphasis on accuracy and fairness, including the principles and techniques of design. 32 lecture and 32 lab hours.

**COMM 2311 – Media Writing.** 3 credit hours. Fundamentals of writing for the mass media. Includes instruction in professional methods and techniques for gathering, processing, and delivering content. 48 lecture and 16 lab hours. Lab fee.

**COMM 2315 – News Reporting.** 3 credit hours. This course focuses on advanced news-gathering and writing skills. It concentrates on the three-part process of producing news stories: discovering the news, reporting the news, and writing the news in different formats. 16 lecture and 80 lab hours. Prerequisite: COMM 2311. Lab fee.

**COMM 2332 – Radio/Television/Internet News.** 3 credit hours. Preparation and analysis of news styles for the electronic media. 32 lecture and 64 lab hours. Prerequisites: COMM 1307 and COMM 2311. Lab fee.

**COSC 1301 – Introduction to Computing.** 3 credit hours. Overview of computer systems-hardware, operating systems, and microcomputer application software, including the Internet, word processing, spreadsheets, presentation graphics, and databases. Current issues such as the effect of computers on society, and the history and use of computers in business, educational, and other modern settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science. 48 lecture hours. Lab fee.

**COSC 1315 – Introduction to Computer Programming.** 3 credit hours. Introduction to computer programming for solving a variety of problems. This course is intended for non-computer science and non-computer engineering majors. Emphasis on the fundamentals of design, development, testing,

implementation, and documentation of computer programs. Includes problem solving with structured techniques and algorithms using pseudo code and/or graphical representations. Prerequisite: TSIA Complete. Lab fee. 48 lecture hours.

**COSC 1336 – Programming Fundamentals I.** 3 credit hours. Introduces the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. This course is included in the Field of Study Curriculum for Computer Science. 48 lecture and 32 lab hours. Prerequisite: TSIA Complete. Lab fee.

**COSC 1337 – Programming Fundamentals II.** 3 credit hours. This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. (This course is included in the Field of Study Curriculum for Computer Science.) Prerequisite: COSC 1336.

**COSC 2325 – Computer Organization.** 3 credit hours. The organization of computer systems is introduced using assembly language. Topics include basic concepts of computer architecture and organization, memory hierarchy, data types, computer arithmetic, control structures, interrupt handling, instruction sets, performance metrics, and the mechanics of testing and debugging computer systems. Embedded systems and device interfacing are introduced. Prerequisite: COSC 1336. 48 lecture hours.

**COSC 2336 – Programming Fundamentals III.** 3 credit hours. Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), searching, sorting, recursion, and algorithmic analysis. Programs will be implemented in an appropriate object-oriented language. (This course is included in the Field of Study Curriculum for Computer Science.) Prerequisite: COSC 1337.

**CPMT 1311 – Introduction to Computer Maintenance.** 3 credit hours. A study of the information for the assembly of a microcomputer system. Emphasis is on the evolution of the microprocessor and microprocessor bus structures. The student will identify modules that make up a computer system and its operation; identify each type of computer bus structure; and assemble/setup microcomputer systems, accessory boards, and install/connect associated peripherals.

**CPMT 1343 – Microcomputer Architecture.** 3 credit hours. Computer characteristics and subsystem operations, timing, control circuits, and internal input/output controls. 48 lecture hours.

**CPMT 2350 – Industry Certification Preparation.** 2 credit hours. Overview of the objectives for industry specific certification exams. Prepares students to sit for the PC Pro Certification, Comp TIA 220-901 Certification, and the CompTIA 220-902 Certification. Prerequisite: CPMT 1311. 32 lecture and 32 lab hours. Lab Fee.

**CRIJ 1301 – Introduction to Criminal Justice.** 3 credit hours. This course provides a historical and philosophical overview of the American criminal justice system, including the nature, extent, and impact of crime; criminal law; and justice agencies and processes. 48 lecture hours.

**CRIJ 1306 – Court Systems & Practices.** 3 credit hours. This course is a study of the court system as it applies to the structures, procedures, practices and sources of law in American courts, using federal and Texas statutes and case law. 48 lecture hours.

**CRIJ 1307 – Crime in America.** 3 credit hours. American crime problems in historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and prevention of crime. 48 lecture hours.

**CRIJ 1310 – Fundamentals of Criminal Law.** 3 credit hours. This course is the study of criminal law including application of definitions, statutory elements, defenses and penalties using Texas statutes, the Model Penal Code, and case law. The course also analyzes the philosophical and historical development of criminal law and criminal culpability. 48 lecture hours.

**CRIJ 1313 – Juvenile Justice System.** 3 credit hours. A study of the juvenile justice process to include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency. 48 lecture hours.

**CRIJ 2301 – Community Resources in Corrections.** 3 credit hours. An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment. 48 lecture hours.

**CRIJ 2313 – Correctional Systems and Practices.** 3 credit hours. This course is a survey of institutional and non-institutional corrections. Emphasis will be placed on the organization and operation of correctional systems; treatment and rehabilitation; populations served; Constitutional issues; and current and future issues. 48 lecture hours.

**CRIJ 2314 – Criminal Investigation.** 3 credit hours. Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation. 48 lecture hours.

**CRIJ 2323 – Legal Aspects of Law Enforcement.** 3 credit hours. Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability. 48 lecture hours.

**CRIJ 2328 – Police Systems and Practices.** 3 credit hours. This course examines the establishment, role and function of police in a democratic society. It will focus on types of police agencies and their organizational structure, police-community interaction, police ethics, and use of authority. 48 lecture hours.

**DEMR 1301 –Shop Safety and Procedures.** 3 credit hours. A study of shop safety, rules, basic shop tools, and test equipment. 32 lecture and 32 lab hours. Lab fee.

**DEMR 1405 – Basic Electrical Systems.** 4 credit hours. Basic principles of electrical systems of diesel-powered equipment with emphasis on starters, alternators, and batteries. 48 lecture and 32 lab hours. Lab fee.

**DEMR 1406 – Diesel Engine I.** 4 credit hours. An introduction to the basic principles of diesel engines and systems. 32 lecture and 64 lab hours. Lab fee.

**DEMR 1410 – Diesel Engine Testing and Repair I.** 4 credit hours. An introduction to testing and repairing diesel engines including related systems and specialized tools. 32 lecture and 64 lab hours. Lab fee.

**DEMR 1413 – Fuel Systems.** 4 credit hours. In-depth coverage of fuel injector pumps and injection systems. 48 lecture and 32 lab hours. Lab fee.

**DEMR 1416 – Basic Hydraulics.** 4 credit hours. Fundamentals of hydraulics including components and related systems. 48 lecture and 32 lab hours. Lab fee.

**DEMR 1442 – Power Train Applications I.** 4 credit hours. In-depth coverage of the mechanics and theory of power trains. Emphasis on disassembly, inspection, and repair of power train components. 48 lecture and 32 lab hours. Lab fee.

**DEMR 1449 – Diesel Engine II.** 4 credit hours. An in-depth coverage of disassembly, repair, identification, evaluation, and reassembly of diesel engines. 32 lecture and 64 lab hours. Prerequisite: DEMR 1406. Lab fee.

**DEMR 2412 – Diesel Engine Testing and Repair II.** 3 credit hours. Continuation of Diesel Engine Testing and Repair I. Coverage of testing and repairing diesel engines including related systems and specialized tools. 32 lecture and 64 lab hours. Prerequisite: DEMR 1410. Corequisite: DEMR 1416. Lab fee.

**DEMR 2432 – Electronic Controls.** 4 credit hours. Advanced skills in diagnostic and programming techniques of electronic control systems. 48 lecture and 32 lab hours. Prerequisite: DEMR 1405. Lab fee.

**DEMR 2480 – Cooperative Education.** 4 credit hours. Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the College, employer, and student. Under supervision of the College and the employer, the student combines classroom learning with work experience. Includes a lecture component. 16 lecture and 336 external hours. Prerequisites: DEMR 1301, 1405, 1406, 1410, 1413, 1442, 1449, 2432. Corequisite: DEMR 1416.

**DFTG 1325 – Blueprint Reading and Sketching.** 3 credit hours. An introduction to reading and interpreting working drawings for fabrication processes and associated trades. Use of sketching techniques to create pictorial and multiple-view drawings. The student will state the meaning of the alphabet of lines, pictorial and multiple-view drawings, dimensions, notes and symbols, sections and auxiliary views, and working drawings to include detail and assembly drawings. The student will read and interpret drawings, create freehand sketches, and use pictorial and orthographic drawing techniques. 48 lecture hours.

**DFTG 1405 – Introduction to Technical Drawing.** 4 credit hours. Introduction to the principles of drafting to include terminology and fundamentals, including size and shape descriptions, projections methods, geometric construction, sections, auxiliary views, and reproduction processes. 32 lecture and 64 lab hours. Lab fee.

**DFTG 1409 – Basic Computer-Aided Drafting.** 4 credit hours. An introduction to basic computer-aided drafting. Emphasis is placed on drawing setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinating systems, and plot/print to scale; as well as using input and output devices. 32 lecture and 64 lab hours. Lab fee.

**DFTG 1417 – Architectural Drafting – Residential.** 4 credit hours. Architectural drafting procedures, practices, and symbols, including preparation of detailed working drawings for residential structures with emphasis on light frame construction methods. The student will demonstrate a general understanding of architectural terms, symbols, use of residential construction materials and processes, and knowledge of reference materials. The student will demonstrate the ability to produce a set of residential construction drawings to include: site plan, floor plan, elevations, wall sections, schedules, details, and foundation plan. 32 lecture and 64 lab hours. Prerequisite: DFTG 1409. Lab fee.

**DFTG 1430 – Civil Drafting I.** 4 credit hours. Interpret field notes; develop documents for a civil project related to drainage and utilities infrastructure, to include a comprehension of related calculations. 32 lecture and 64 lab hours. Prerequisite: DFTG 1409. Lab fee.

**DFTG 1433 – Mechanical Drafting.** 4 credit hours. An introductory course covering a study of mechanical drawings using dimensioning and tolerances, use of sectioning techniques, orthographic projections, and pictorial drawings. Common fasteners, isometrics and oblique drawings, including bill of materials. The student will apply tolerance techniques to draw detail, isometric, and oblique drawing and draw common fasteners. 32 lecture and 64 lab hours. Prerequisite: DFTG 1409.

**DFTG 2366 – Practicum (Field Experience).** 3 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be for pay or no pay. This course may be repeated if topics and outcomes vary. As outlined in the learning plan, the student will master the theory, concepts, and skills involving the tools, materials, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, and legal systems associated with the workplace; demonstrate ethical behavior, safety practices, interpersonal and teamwork skills, appropriate verbal and written communications in the workplace. Prerequisite: 34 hours of drafting courses. 16 lecture and 256 hours at the workplace.

**DFTG 2402 – Machine Drafting.** 4 credit hours. Production of detail and assembly drawings of machines, threads, gears, cams, tolerances, limit dimensioning, surface finishes, and precision drawings. 32 lecture and 64 lab hours. Prerequisite: DFTG 1409 and DFTG 1433. Lab fee.

**DFTG 2421 – Topographical Drafting.** 4 credit hours. A course in map drafting. Emphasis is given to plotting of surveyor's field notes. Includes plotting and drawing elevations, contour lines, plan and profiles, and laying out traverses. 32 lecture and 64 lab hours. Prerequisite: DFTG 1409.

**DFTG 2486 – Internship – Drafting.** 4 credit hours. A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the College and the employer. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the College and that are directly related to specific occupational outcomes. This may be a paid or non-paid experience. This course may be repeated if topics and learning outcomes vary. As outlined in the learning plan, the student will master the theory, concepts, and skills involving the tools, materials, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental and legal systems associated with the particular occupation and the business/industry; demonstrate ethical behaviors, safety practices, interpersonal and teamwork skills, communicating in the applicable language of the occupation and the business or industry. Prerequisite: Sophomore standing and a 3.0 or better GPA. 16 lecture and 336 hours at the workplace.

**DMSO 1210 – Introduction to Sonography.** 2 credit hours. An introduction to the profession of sonography, the education and role of the sonographer. Emphasis on medical terminology, ethical/legal aspects, written and verbal communication, and professional issues relating to registry, accreditation, professional organizations and history of the profession. 32 lecture hours.

**DMSO 1266 – Practicum (or Field Experience) - Diagnostic Medical Sonography/Sonographer and Ultrasound Technician.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. 256 clinical hours. Prerequisites: DMSO 1210. Corequisite: DMSO 1342, DMSO 1351, and DMSO 1441. Program acceptance is required.

**DMSO 1267 – Practicum (or Field Experience) - Diagnostic Medical Sonography/Sonographer and Ultrasound Technician.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. 256 clinical hours. Prerequisites: DMSO 1342, DMSO 1351, DMSO 1266, and DMSO 1441. Corequisites: DMSO 2353, DMSO 2405. Program acceptance is required.

**DMSO 1342 – Intermediate Ultrasound Physics.** 3 credit hours. Study of interaction of ultrasound with tissues, mechanics of ultrasound production and display, various transducer designs and construction, quality assurance, bioeffects, and image artifacts. May introduce methods of Doppler flow analysis. 48 lecture hours. Prerequisite: DMSO 1210. Corequisites: DMSO 1266, DMSO 1351, and DMSO 1441. Program acceptance is required.

**DMSO 1351 – Sectional Anatomy for Sonographers.** 3 credit hours. Sectional anatomy of the male and female body. Includes anatomical relationships of organs, vascular structures, and body planes and quadrants. 48 lecture hours. Prerequisite: DMSO 1210. Corequisite: DMSO 1266, DMSO 1342, and DMSO 1441. Program acceptance is required.

**DMSO 1441 –Abdominopelvic Sonography.** 4 credit hours. Normal anatomy and physiology of the abdominal and pelvic cavities as related to laboratory data, scanning technique, transducer selection, and scanning protocols. 48 lecture and 48 lab hours. Prerequisite: DMSO 1210. Corequisites: DMSO 1266, DMSO 1342, and DMSO 1351. Program acceptance is required. Lab fee.

**DMSO 1455 – Sonographic Pathophysiology.** 4 credit hours. Pathology and pathophysiology of the organs and structures visualized with ultrasound. 64 lecture hours. Prerequisites: DMSO 2342, DMSO 2351, and DMSO 2366. Corequisites: DSVT 1300, DMSO 2230, DMSO 2367. Program acceptance is required.

**DMSO 2230 – Advanced Ultrasound and Review.** 2 credit hours. Preparation for medical sonography credentialing exams. Advanced medical sonography topics such as professional development and evolving sonographic applications and practices. 32 lecture hours. Prerequisites: DMSO 2342, DMSO 2351, and DMSO 2366. Corequisites: DSVT 1300, DMSO 1455, DMSO 2367. Program acceptance is required.

**DMSO 2266 – Practicum (or Field Experience) - Diagnostic Medical Sonography/Sonographer and Ultrasound Technician.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. 224 clinical hours. Prerequisites: DMSO 1267, DMSO 2353, and DMSO 2405. Program acceptance is required.

**DMSO 2342 – Advanced Obstetric Sonography.** 3 credit hours. Maternal disease, pregnancy complications, and fetal abnormalities. Includes scanning techniques and protocols, patient history, and laboratory data. 48 lecture hours. Prerequisites: DMSO 2266. Corequisites: DMSO 2351 and DMSO 2366. Program acceptance is required.

**DMSO 2351 – Doppler Physics.** 3 credit hours. Doppler and hemodynamic principles relating to cardiovascular imaging and testing. 32 lecture and 64 lab hours. Prerequisites: DMSO 2266. Corequisites: DMSO 2342 and DMSO 2366. Program acceptance is required. Lab Fee.

**DMSO 2353 – Sonography of Superficial Structures.** 3 credit hours. Detailed study of normal and pathological superficial structures as related to patient history, laboratory data, and scanning techniques and protocols. 48 lecture hours. Prerequisites: DMSO 1342, DMSO 1266, DMSO 1351, and DMSO 1441. Corequisites: DMSO 1267, DMSO 2405. Program acceptance is required.

**DMSO 2366 Practicum (or Field Experience) – Diagnostic Medical Sonography/Sonographer and Ultrasound Technician.** 3 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and student. 384 clinical hours. Prerequisites: DMSO 2266. Corequisites: DMSO 2342, DMSO 2351. Program acceptance is required.

**DMSO 2367 – Practicum (or Field Experience) - Diagnostic Medical Sonography/Sonographer and Ultrasound Technician.** 3 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and student. 384 clinical hours. Prerequisites: DMSO 2351, DMSO 2342, and DMSO 2366. Corequisite required: DMSO 2230, DMSO 1455, and DSVT 1300. Program acceptance is required.



**DMSO 2405 – Sonography of Obstetrics/ Gynecology.** 4 credit hours. Detailed study of the pelvis and obstetrics/gynecology as related to scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols. 48 lecture and 64 lab hours. Prerequisites: DMSO 1342, DMSO 1266, DMSO 1351, and DMSO 1441. Corequisites: DMSO 2353, DMSO 1267. Program acceptance is required. Lab fee.

**DRAM 1120, 1121, 2120, 2121 – Theater Practicum I, II, III, IV.** 1-hour credit. Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. 48 lab hours. Lab fee.

**DRAM 1310 – Theater Appreciation.** 3 credit hours. Survey of theater including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Participation in productions may be required. 48 lecture hours.

**DRAM 1330 – Stagecraft I.** 3 credit hours. Study and application of the methods and components of theatrical production which may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound, and theatrical management. 32 lecture and 48 lab hours. Lab fee.

**DRAM 1341 – Makeup.** 3 credit hours. Design and execution of makeup for the purpose of developing characters. Includes basic makeup principles and practical experience of makeup application. 48 lecture hours. Lab fee.

**DRAM 1342 – Costume Technology.** 3 credit hours. Principles and techniques of costume design and construction for theatrical productions. Qualifies as a drama elective for theater majors and as a general elective for all non-majors. 32 lecture and 48 lab hours. Lab fee.

**DRAM 1351 – Acting I.** 3 credit hours. An introduction to the fundamental principles and tools of acting as used in auditions, rehearsals, and performances. This may include ensemble performing, character and script analysis, and basic theater terminology. This exploration will emphasize the development of the actor's instrument: voice, body, and imagination. 32 lecture and 32 lab hours. Lab fee.

**DRAM 1352 – Acting II.** 3 credit hours. Exploration and further training within the basic principles and tools of acting, including an emphasis on critical analysis of oneself and others. The tools include ensemble performing, character and script analysis, and basic theater terminology. This will continue the exploration of the development of the actor's instrument: voice, body, and imagination. 32 lecture and 32 lab hours. Lab fee.

**DRAM 2331 – Stagecraft II.** 3 credit hours. Continued study and application of the methods and components of theatrical production which may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound, and theatrical management. 32 lecture and 48 lab hours. Lab fee.

**DRAM 2336 – Voice for the Actor.** 3 credit hours. Application of the performer's use of the voice as a creative instrument of effective communication. Encourages an awareness of the need for vocal

proficiency and employs techniques designed to improve the performer's speaking abilities. 48 lecture hours.

**DRAM 2361 – History of Theater I.** 3 credit hours. Study of the history of the theater from primitive times through the Renaissance. 48 lecture hours.

**DSVT 1300 – Principles of Vascular Technology.** 3 credit hours. Introduction to non-invasive vascular technology, including anatomy, physiology, 2D imaging, and Doppler. Emphasis on performing basic arterial and venous imaging. 32 lecture and 48 lab hours. Prerequisites: DMSO 2342, DMSO 2351, and DMSO 2366. Corequisites: DMSO 2230, DMSO 1455, and DMSO 2367. Program acceptance is required. Lab fee.

**ECON 2301 – Principles of Macroeconomics.** 3 credit hours. An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy. 48 lecture hours.

**ECON 2302 – Principles of Microeconomics.** 3 credit hours. Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade. 48 lecture hours.

**EDUC 1300 – Learning Framework.** 3 credit hours. A study of the: research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. Lab Fee. Cross-listed as PSYC 1300. The student may register for either EDUC or PSYC but may receive credit for only one of the two. 48 lecture hours.

**EDUC 1301 – Introduction to the Teaching Profession.** 3 credit hours. An enriched integrated pre-service course and content experience that: 1) provides active recruitment and institutional support of students interested in a teaching career, especially in high need fields; 2) provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations; 3) provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introduction to and analysis of the culture of schooling and classrooms. Course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards and includes a minimum of 16 contact hours of field experience in P-12 classrooms. Students must comply with state and school regulations to participate in P-12 classroom field experiences, which may include (but may not be limited to): a current negative TB test, an acceptable criminal history and central registry background check, fingerprinting and a notarized affidavit for applicants. (Please see an advisor for additional information.) 32 lecture and 16 lab hours. Lab fee.

**EDUC 2301 – Introduction to Special Populations.** 3 credit hours. An enriched integrated pre-service course and content experience that: 1) provides an overview of schooling and classrooms from the perspectives of language, gender, socioeconomic status, ethnic and academic diversity, and equity with an emphasis on factors that facilitate learning; 2) provides students with opportunities to participate in early field observations of P-12 special populations. The course content must be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. The course will also include a minimum of 16 contact hours of field experience in P-12 classrooms with special populations. Prerequisite for this course is EDUC 1301. Students must comply with state and school regulations to participate in P-12 classroom field experiences, which may include (but may not be limited to): a current negative TB test, an acceptable criminal history and central registry background check, fingerprinting and a notarized affidavit for applicants. (Please see an advisor for additional information.) 32 lecture and 16 lab hours. Prerequisite: EDUC 1301. Lab fee.

**ELMT 2381 – Cooperative Education.** 3 credit hours. Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry; and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. 16 lecture and 320 field experience hours. Students enrolling in this course must have a GPA of 3.00 or higher.

**ELPT 1321 – Introduction to Electrical Safety and Tools.** 3 credit hours. A comprehensive overview of safety rules and regulations and the selection, inspection, use, and maintenance of common tools for electricians. The student will explain electrical hazards and how to avoid them in the workplace; discuss safety issues concerning lockout/tagout procedures; and demonstrate safe work habits using common hand and power tools for electricians. 48 lecture and 16 lab hours.

**ELPT 1411 – Basic Electrical Theory.** 4 credit hours. Basic theory and practice of electrical circuits. Includes calculations as applied to alternating and direct current. Students will be able to explain atomic structure and basic values such as voltage, current, resistance, and power; determine electrical values for combination circuits in direct current (DC) and alternating current (AC) containing resistance, inductance, and capacitance; summarize the principles of magnetism; calculate voltage drop based on conductor length, type of material, and size; and utilize electrical measuring instruments. Corequisite: TECM 1301. 48 lecture and 32 lab hours. Lab fee.

**ELPT 1429 – Residential Wiring.** 4 credit hours. Wiring methods for single family and multi-family dwellings. Includes load calculations, service entrance sizing, proper grounding techniques, and associated safety procedures. Students will be able to compute the circuit sizes needed for the installation of branch circuits, feeders, and service entrance conductors; explain the proper installation of wiring devices according to electrical codes; demonstrate grounding methods; install ground fault circuits; identify

residential wiring methods; and demonstrate proper safety procedures. Corequisite: TECM 1301. 48 lecture and 32 lab hours. Lab fee.

**ELPT 1440 – Master Electrician Exam Review I.** 4 credit hours. Electrical theory, code calculations, and interpretations applicable to becoming a Master Electrician. Emphasizes residential, commercial, and industrial installations using the current edition of the National Electric Code (NEC) and local ordinances. Student will be able to use circuit analysis techniques to solve for unknowns in direct current (DC) and alternating current (AC) circuits; use the NEC to size conductors, raceways, overcurrent protection, and other equipment for branch circuits; use the NEC to size services for single-family dwellings, multi-family dwellings, offices, stores, schools, mobile homes, recreational vehicles, commercial cooking equipment, and motors; and differentiate the rules and regulations of different cities relating to meeting the requirements for taking the Master Electrician's Exam. Prerequisites: Associate of Applied Science in Electromechanical Technology. 64 lecture hours.

**ELPT 1441 – Motor Control.** 4 credit hours. Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations. Students will be able to identify practical applications of jogging and plugging; describe the types of motor braking and their operating principles; explain different starting methods for large motors; and demonstrate proper troubleshooting methods on circuits using wiring and schematic diagrams. Corequisite: TECM 1301. 48 lecture and 32 lab hours. Lab fee.

**ELPT 1445 – Commercial Wiring.** 4 credit hours. Commercial wiring methods. Includes over-current protection, raceway panel board installation, proper grounding techniques, and associated safety procedures. Students will be able to interpret electrical blueprints/drawings; compute the circuit sizes and over-current protection needed for the installation of branch circuits, feeders, and service entrance conductors; explain the proper installation of wiring devices according to the National Electrical Code (NEC) and local electrical codes; demonstrate grounding methods; identify commercial wiring methods including conduit bending; and demonstrate proper safety procedures. Corequisite: TECM 1301. 48 lecture and 32 lab hours. Lab fee.

**ELPT 2305 – Motors and Transformers.** 4 credit hours. Operation of single- and three-phase motors and transformers. Includes transformer banking, power factor correction, and protective devices. Students will be able to match the type of single-phase motor with its principles of operation; compare the operating characteristics of the three types of three-phase motors; explain the advantages of Wye and Delta connections in motor and transit applications; size overcurrent, short circuit, and ground fault protective devices; and utilize nameplate information. Prerequisite: ELPT 1411. 32 lecture and 32 lab hours. Lab fee.

**ELPT 2319 – Programmable Logic Controllers I.** 4 credit hours. Fundamental concepts of programmable logic controllers, principles of operation, and numbering systems as applied to electrical controls. Students will be able to identify and describe digital logic circuits and explain numbering systems; explain the operation of programmable logic controllers; convert ladder diagrams into programs; incorporate timers and counters utilizing programmable logic controllers; and execute and evaluate programs. Prerequisite: ELPT 1411. 32 lecture and 48 lab hours. Lab fee.

**ELPT 2331 – AC/DC Drives.** 3 credit hours. Installation and maintenance of alternating current (AC) and direct current (DC) variable speed drives with emphasis on application, operating characteristics, and troubleshooting techniques. Students will be able to explain technical terms associated with AC and DC drive systems; differentiate between the basic types of control logic and schemes used for AC and DC speed control; compare the advantages and disadvantages of AC versus DC drive systems; program AC and DC drives for specific applications; and troubleshoot drives to board level. Prerequisite: ELPT 1411. 32 lecture and 48 lab hours. Lab fee.

**ELPT 2355 – Programmable Logic Controllers II.** 3 credit hours. Advanced concepts in programmable logic controllers and their applications and interfacing to industrial controls. Convert ladder diagrams into programs; explain digital/analog devices used with programmable logic controllers; apply advanced programming techniques; execute and evaluate control system operation; and implement interfacing and networking schemes. 32 lecture and 48 lab hours. Lab fee. Prerequisite: ELPT 2419 Programmable Logic Controllers I. Students attempting this course must have a grade of C or higher in ELPT 2419 programmable Logic Controllers I.

**ELPT 2449 – Industrial Automation.** 4 credit hours. Electrical control systems, applications, and interfacing utilized in industrial automation. Apply advanced programming techniques utilizing programmable logic controllers; implement digital/analog interfacing schemes; explain the operation of communication and network methods; devise control system specifications; and explain the operation and applications of distributed control systems. 32 lecture and 48 lab hours. Lab fee. Pre-requisite: ELPT 2355 Programmable Logic Controllers II. Students attempting this course must have a grade of B or higher in ELPT 2355 Programmable Logic Controllers II.

**EMSP 1160 – Clinical – Emergency Medical Technology/Technician.** 1-hour credit. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business /industry. 80 clinical hours. Prerequisite is a current AHA BLS provider CPR card. Corequisites is EMSP 1501.

**EMSP 1261 – Clinical – Emergency Medical Technology/Technician.** 2 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. 192 clinical hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, Corequisites: EMSP 2306, EMSP 1338, EMSP 1356.

**EMSP 1338 – Introduction to Advanced Practice.** 4 credit hours. Fundamental elements associated with emergency medical services to include preparatory practices, pathophysiology, medication administration, and related topics. Describe the roles and responsibilities of advanced EMS personnel within the EMS system; apply concepts of pathophysiology and pharmacology to the assessment and management of emergency patients; administer medications; employ effective communication; and interpret medical/legal issues; demonstrate ethical behaviors; and discuss well-being of the paramedic. 48 lecture and 32 lab hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 1160, EMSP 1501. Corequisites: EMSP 1261, EMSP 1356, EMSP 2306, and EMSP 2160. Lab fee.

**EMSP 1355 – Trauma Management.** 3 credit hours. Knowledge and skills in the assessment and management of patients with traumatic injuries. Integrate the pathophysiological principles and assessment findings to formulate a field impression; and implement the treatment plan for the trauma patient; and integrate multiple determinates of trauma conditions into clinical care. 32 lecture and 32 lab hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 1160, EMSP 1501, EMSP 1261, EMSP 1338, EMSP 1356, EMSP 2160, and EMSP 2306. Corequisites: EMSP 2205 and EMSP 2261. Lab fee.

**EMSP 1356 – Patient Assessment and Airway Management.** 3 credit hours. Knowledge and skills required to perform patient assessment, airway management, and artificial ventilation. Perform a history and comprehensive physical exam on various patient populations; establish and/or maintain a patent airway; and demonstrate oxygenation and ventilation of a patient; differentiate respiratory distress, failure and arrest; interpret results of monitoring devices. 32 lecture and 32 lab hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 1160, EMSP 1501. Corequisites: EMSP 1261, EMSP 1338, EMSP 2306, and EMSP 2160. Lab fee.

**EMSP 1438 – Introduction to Advanced Practice.** 4 credit hours. Fundamental elements associated with emergency medical services to include preparatory practices, pathophysiology, medication administration, and related topics. Describe the roles and responsibilities of advanced EMS personnel within the EMS system; apply concepts of pathophysiology and pharmacology to the assessment and management of emergency patients; administer medications; employ effective communication; and interpret medical/legal issues; demonstrate ethical behaviors; and discuss well-being of the paramedic. 48 lecture and 32 lab hours. Prerequisites: EMT Basic and Current Provider CPR card, EMSP 1160, EMSP 1501. Corequisites: EMSP 1261, EMSP 1355, EMSP 1356 and EMSP 2160. Lab fee.

**EMSP 1501 – Emergency Medical Technician – Basic.** 5 credit hours. Preparation for certification as an Emergency Medical Technician (EMT) Basic. Demonstrate proficiency in cognitive, psychomotor and affective domains for the Emergency Medical Technician (EMT) in accordance with the current guidelines of the credentialing agency. 48 lecture and 96 lab hours. Prerequisite is a current AHA BLS Provider CPR card. Corequisite is EMSP 1160.

**EMSP 2160 – Clinical – Emergency Medical Technology/Technician.** 1 credit hour. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental, social, and legal systems

associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. 96 clinical hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card. Corequisites: EMSP 2430, 2434, 2243 and 2462.

**EMSP 2205 – EMS Operations.** 2 credit hours. Knowledge and skills to safely manage multi-casualty incidents and rescue situations; utilize air medical resources; and identify hazardous materials and other specialized incidents. Identify principles of EMS Operations and describe management of routine and specialized incidents. 32 lecture and 16 lab hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 1261, 1338, 1356, 2306, 2160. Corequisites: EMSP 2261 and EMSP 1355. Lab fee.

**EMSP 2243 – Assessment Based Management.** 2 credit hours. A summative experience covering comprehensive, assessment-based patient care management for the paramedic level. Integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan at the paramedic level. 16 lecture and 48 lab hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 2544. Corequisites: EMSP 2462, EMSP 2430, EMSP 2434. Lab fee.

**EMSP 2261 – Clinical – Emergency Medical Technology/ Technician.** 2 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. Course may be repeated if topics and learning outcomes vary. 128 clinical hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 1261, 1338, 1356, 2306, 2160. Corequisites: EMSP 2205, and EMSP 1355.

**EMSP 2306 – Emergency Pharmacology.** 3 credit hours. A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages. Categorize the classification of drugs, calculate drug dosages; and identify the therapeutic use, routes of administration, indications, contraindications, and adverse effects. 32 lecture and 32 lab hours. Prerequisites: EMT Basic and Current Provider CPR card. Corequisites: EMSP 1261, EMSP 1355, EMSP 1338, EMSP 1356 and EMSP 2160. Lab fee.

**EMSP 2430 – Special Populations.** 4 credit hours. Knowledge and skills necessary to assess and manage ill or injured patients in diverse populations to include neonatology, pediatrics, geriatrics, and other related topics. Integrate pathophysiological assessment findings to formulate a field impression; implement a treatment plan for diverse patients with special needs, and integrate multiple determinates of such conditions into clinical care. 48 lecture and 32 lab hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 2544. Corequisites: EMSP 2434, 2462 and 2243. Lab fee.

**EMSP 2434 – Medical Emergencies.** 4 credit hours. Knowledge and skills in the assessment and management of patients with medical emergencies, including medical overview, neurology,

gastroenterology, immunology, pulmonology, urology, hematology, endocrinology, toxicology, and other related topics. Integrate pathophysiological assessment findings to formulate a field impression; implement a treatment plan for the medical patient; and integrate multiple determinates of medical conditions into clinical care. 48 lecture and 48 lab hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 2544. Corequisites: EMSP 2430, EMSP 2462 and 2243. Lab fee.

**EMSP 2462 – Clinical – Emergency Medical Technology/Technician.** 4 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. Course may be repeated if topics and learning outcomes vary. 224 clinical hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 2544. Corequisites: EMSP 2430, 2434, 2243 and 2160.

**EMSP 2544 – Cardiology.** 5 credit hours. Assessment and management of patients with cardiac emergencies. Integrate pathophysiological principles and assessment findings to formulate an impression; and implement a treatment plan for the cardiac patient. 64 classroom hours and 32 lab hours. Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 1355, EMSP 2205, and EMSP 2261. Lab fee.

**ENGL 0301 – Composition Fundamentals.** Intensive study of college-level writing focusing on idea generation, essay organization and drafting, essay revision and the utilization of standard English. Review of spelling, grammar, punctuation, and fluency. Must be paired with English 1301. ENGL 0301 does not count toward the fulfillment of requirements for any associate's degree at Angelina College and is not a transfer credit course. Placement in this course is determined by an appropriate TSI assessment score. Forty-eight lecture and sixteen lab hours.

**ENGL 1301 – Composition I.** 3 credit hours. Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture and 16 lab hours. Lab fee.

**ENGL 1302 – Composition II.** 3 credit hours. Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. 48 lecture hours. Prerequisite: ENGL 1301.

**ENGL 2311 – Technical & Business Writing.** 3 credit hours. Intensive study of and practice in writing for professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, email messages, letters, and



descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents. Prerequisite: ENGL 1301 or permission of the appropriate academic administrator. Lab fee. 48 lecture hours.

**ENGL 2322 – British Literature I.** 3 credit hours. A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301. (Confirm with the selected four-year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.) 48 lecture hours.

**ENGL 2323 – British Literature II.** 3 credit hours. A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301. (Confirm with the selected four-year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.) 48 lecture hours.

**ENGL 2327 – American Literature I (to 1865).** 3 credit hours. A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. Prerequisite: ENGL 1301. (Confirm with the selected four-year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.) 48 lecture hours.

**ENGL 2328 – American Literature II (from 1865).** 3 credit hours. A survey of American literature from the Civil War to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. Prerequisite: ENGL 1301. (Confirm with the selected four-year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.) 48 lecture hours.

**ENGL 2332 – World Literature I.** 3 credit hours. A survey of world literature from the ancient world through the sixteenth century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301. (Confirm with the selected four-year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.) 48 lecture hours.

**ENGL 2333 – World Literature II.** 3 credit hours. A survey of world literature from the seventeenth century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301. (Confirm with the selected four-year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.) 48 lecture hours.

**ENGL 2341 – Forms of Literature.** 3 credit hours. The study of one or more literary genres including, but not limited to, poetry, fiction, drama, and film. Topics may vary by semester. Prerequisite: ENGL 1301.

(Confirm with the selected four-year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.) 48 lecture hours.

**ENGL 2351. Mexican-American Literature.** 3 credit hours. A survey of Mexican American/Chicana literature from Mesoamerica to the present. Students will study literary works of fiction, poetry, drama, essays, and memoirs in relation to their historical, linguistic, political, regional, gendered, and cultural contexts. Texts will be selected from a diverse group of authors, literary movements, and media forms. Topics and themes may include the literary performance of identity and culture, aesthetic mediation of racialization, struggle and protest, and artistic activism. Prerequisite: ENGL 1301. (Confirm with the selected four-year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.) 48 lecture hours.

**ENGR 2301 – Engineering Mechanics: Statics.** 3 credit hours. Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia. 48 lecture hours. Prerequisite: PHYS 2425 University Physics I (Lecture & lab) Corequisite or Prerequisite: MATH 2414 Calculus II

**ENGR 2302 – Engineering Mechanics: Dynamics.** 3 credit hours. Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems. 48 lecture hours. Prerequisite: ENGR 2301 Engineering Mechanics - Statics

**ENTC 1410 – Fluid Mechanics with Applications.** 4 credit hours. Introduces the concepts of fluid power systems and components. Emphasizes fluid properties, measurement of pressure, viscosity and density, and flow. 48 lecture and 32 lab hours. Lab fee.

**ENTC 2310 – Machine Design.** 3 credit hours. Design considerations for machinery. Includes selection of mechanical components and machine construction principles. Students will learn the applications and selection processes for various mechanical elements/components within basic power transmission units. Students will evaluate suitability of mechanical drive components; construct a mechanical system; establish a lubrication plan; establish a maintenance schedule; and evaluate system performance. 32 lecture and 32 lab hours. Lab fee.

**FLMC 1304- Lighting for Film or Video.** 3 credit hours. Fundamentals of lighting techniques for film or video production with respect to lighting tools, composition and camera motion to support dynamic storytelling. 32 lecture and 32 lab hours.

**FLMC 1392 – On-Camera Experience.** 4 credit hours. An introductory study of on-camera presentation techniques. 32 lecture and 64 lab hours.

**FLMC 2433 – Cinematography.** 3 credit hours. Employ concepts and theory; discuss marketing and technology trends; analyze scene and property set camera for correct light exposure; explain differences

in lighting; evaluate camera lenses; and produce a short video or film. 32 lecture and 64 lab hours.  
Prerequisite: FLMC 1304

**GEOG 1301 – Principles of Geography.** 3 credit hours. This course introduces students to the processes that drive Earth's physical systems. Students will explore the relationships among these physical systems, with emphasis on weather and climate, water, ecosystems, geologic processes and landform development, and human interactions with the physical environment. 48 lecture hours.

**GEOG 1303 – World Regional Geography.** 3 credit hours. This course is an introduction to the world's major regions seen through their defining physical, social, cultural, political, and economic features. These regions are examined in terms of their physical and human characteristics and their interactions. The course emphasizes relations among regions on issues such as trade, economic development, conflict, and the role of regions in the globalization process. 48 lecture hours.

**GEOL 1403 – Physical Geology (Lecture + Lab).** 4 credit hours. Introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. 48 lecture and 48 lab hours. Lab fee.

**GEOL 1404 – Historical Geology (Lecture + Lab).** 4 credit hours. A comprehensive survey of the history of life and major events in the physical development of Earth as interpreted from rocks and fossils. 48 lecture and 48 lab hours. Prerequisites: GEOL 1403 Physical Geology. Lab Fee.

**GISC 1411 – Introduction to Geographic Information Systems (GIS) and Global Positions Systems (GPS).** 4 credit hours. Introduction to basic concepts of vector GIS using several industry specific software programs including nomenclature of cartography and geography. The student will explain basic concepts of GIS and GPS including positioning on the earth, mapping the earth in spatial terms, and populating the GIS to access data; create and access data in the GIS using an appropriate software package; and develop and print maps with industry standard legends. Operate industry standard GIS packages on a personal computer; capture positional and attribute information among several coordinate systems; acquire GIS information from databases, existing maps, and the Internet; and annotate output for finished maps, documents and reports. Prerequisite: DFTG 1409. 32 lecture and 64 lab hours. Lab fee.

**GOVT 2305 – Federal Government (Federal Constitution and Topics).** 3 credit hours. Origin and development of the US constitution, structure and powers of national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture hours.

**GOVT 2306 – Texas Government (Texas Constitution and Topics).** 3 credit hours. Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture hours.

**GRPH 1459 – Vector Graphics for Production.** 4 credit hours. A study and use of vector graphics for production. 32 lecture and 64 lab hours. Lab fee.

**HART 1256 – EPA Recovery Certification Preparation.** 2 credit hours. Certification training for HVAC refrigerant recovery, recycle, and reclaim. Instruction will provide a review of EPA guidelines for refrigerant recovery and recycling during the installation, service, and repair of all HVAC and refrigeration systems. 32 lecture hours.

**HART 1303 – Air Conditioning Control Principles.** 3 credit hours. A basic study of HVAC and refrigeration controls; troubleshooting of control components; emphasis on use of wiring diagrams to analyze high and low voltage circuits; a review of Ohm’s law as applied to air conditioning controls and circuits. The student will test, repair, and/or replace HVAC-related electrical and control components, wiring and equipment; read, draw, and interpret high and low voltage control circuits. 32 lecture and 64 lab hours. Lab fee.

**HART 1310 – HVAC Shop Practices and Tools.** 3 credit hours. Tools and instruments used in the HVAC industry. Includes proper application, use and care of these tools, and tubing and piping practices. The student will demonstrate the use of hand tools, power tools and instruments; construct flares, swages and bends using tubing tools; use a torch for brazing and soldering; identify industry safety, and environmental regulations; and perform safety procedures. 32 lecture and 42 lab hours. Lab fee.

**HART 1401 – Basic Electricity for HVAC.** 4 credit hours. Principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation. Student will demonstrate knowledge of basic principles of electricity, electrical current, circuitry, and air conditioning devices; apply Ohm’s law to electrical calculations; perform electrical continuity, voltage, and current tests with appropriate meters; and demonstrate electrical safety. 48 lecture and 48 lab hours. Lab fee.

**HART 1407 – Refrigeration Principles.** 4 credit hours. An introduction to the refrigeration cycle, heat transfer theory, temperature/pressure relationship, refrigerant handling, refrigeration components and safety. The student will identify refrigeration components; explain operation of the basic refrigeration cycle and heat transfer; demonstrate proper application and/or use of tools, test equipment, and safety procedures. 48 lecture and 48 lab hours. Lab fee.

**HART 1441 – Residential Air Conditioning.** 4 credit hours. A study of components, applications, and installation of mechanical air conditioning systems including operation conditions, troubleshooting, repair, and charging of air conditioning systems. Prerequisite: HART 1401 and HART 1407. 48 lecture and 48 lab hours. Lab fee.

**HART 1445 – Gas and Electric Heating.** 4 credit hours. A study of the procedures and principles used in servicing heating systems including gas fire furnaces and electric heating systems. The student will identify different types of gas furnaces; identify and describe component operation of gas furnaces; service and troubleshoot gas furnaces; perform safety inspections on gas and electric heating systems; identify unsafe operation of gas furnaces; identify and discuss component operation of electric heating systems; and service and troubleshoot electric heating systems. 48 lecture and 48 lab hours. Lab fee.

**HART 2334 – Advanced Air Conditioning Controls.** 4 credit hours. Theory and practical application of electrical control devices, electromechanical controls, and/or pneumatic controls. Prerequisite: HART 1441. 32 lecture and 48 lab hours. Lab fee.

**HART 2336 – Troubleshooting.** 4 credit hours. An advanced course in the application of troubleshooting principles and use of test instruments to diagnose air conditioning and refrigeration components and system problems including conducting performance tests. The student will test and diagnose components, systems, and accessories; complete applicable documentation. Prerequisites: HART 1401, 1303, 1407, and/or corequisite HART 1445. 32 lecture and 48 lab hours. Lab fee.

**HART 2441 – Commercial Air Conditioning.** 4 credit hours. A study of components, applications, and installation of air conditioning systems with capacities of 25 tons or less. Prerequisite: HART 1441. 48 lecture and 48 lab hours. Lab fee.

**HART 2442 – Commercial Refrigeration.** 4 credit hours. Theory and practical application in the maintenance of commercial refrigeration; medium, and low temperature applications and ice machines. Prerequisite: HART 1401 and HART 1407. 48 lecture and 48 lab hours. Lab fee.

**HIST 1301 – United States History I.** 3 credit hours. A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. Required of all students seeking an Associate of Arts or Science degree or who plan to transfer to a four-year school. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture hours.

**HIST 1302 – United States History II.** 3 credit hours. A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of US foreign policy. Required of all students seeking an Associate of Arts or Science degree or who plan to transfer to a four-year school. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture hours.

**HIST 2301 – Texas History.** 3 credit hours. A survey of the political, social, economic, cultural, and intellectual history of Texas from the pre-Columbian era to the present. Themes that may be addressed in Texas History include: Spanish colonization and Spanish Texas; Mexican Texas; the Republic of Texas; statehood and secession; oil, industrialization, and urbanization; civil rights; and modern Texas. 48 lecture hours.

**HIST 2311 – Western Civilization I.** 3 credit hours. A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from human origins to the 17th century. Themes that should be addressed in Western Civilization I include the cultural legacies of Mesopotamia, Egypt, Greece, Rome, Byzantium, Islamic civilizations, and Europe through the Middle Ages, Renaissance, and Reformations. 48 lecture hours.

**HIST 2312 – Western Civilization II.** 3 credit hours. A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from the 17th century to the modern era. Themes that should be addressed in Western Civilization II include absolutism and constitutionalism, growth of nation states, the Enlightenment, revolutions, classical liberalism, industrialization, imperialism, global conflict, the Cold War, and globalism. 48 lecture hours.

**HITT 1305 – Medical Terminology.** 3 credit hours. Study of word origin and structure through the introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols. The study of terminology related to surgical procedures, medical specialties and diagnostic procedures. 48 lecture hours.

**HPRS 1201 – Introduction to Health Professions.** 2 credit hours. An overview of roles of various members of the health care system, educational requirements, and issues affecting the delivery of health care. 32 lecture hours.

**HRPO 1311 – Human Relations.** 3 credit hours. Practical application of the principles and concepts of the behavioral sciences to interpersonal relationships in business and industrial environments. 48 lecture hours.

**HRPO 2301 – Human Resources Management.** 3 credit hours. Behavioral and legal approaches to the management of human resources in organizations. 48 lecture hours.

**HYDR 1409 – Basic Fluid Power I (Hydraulics).** 4 credit hours. An introduction to the basic principles of hydraulic pressure, flow, and system components, including system controls, symbols, and circuits. The student will state Pascal's law and its consequences involving pressure; state the continuity equation and explain its application to the flow rate; name the basic hydraulic system components and state the function of each; calculate pressure, force, or actuator size given any two parameters; and determine proper conductor size given flow and velocity parameters. 48 lecture and 32 lab hours. Lab fee.

**HYDR 1415 – Basic Fluid Power II (Pneumatics).** 4 credit hours. An introduction to the basic principles of pneumatic pressure, flow, and system components, symbols, and circuits. Emphasis on troubleshooting techniques, good maintenance procedures, and safety practices. The student will state Pascal's law and its consequences involving pressure; explain the general gas law and its applications; identify the basic pneumatic system components; state the function of each component; calculate pressure, force, or actuator size given any two parameters; and determine compressor size given flow rate, pressure, and actuator requirements. 48 lecture and 32 lab hours. Lab fee.

**IMED 1416 – Web Page Design.** 4 credit hours. Instruction in Web design and related graphic design issues including mark-up languages, websites, and browsers. 32 lecture and 64 lab hours. Lab fee.

**IMED 2266 – Practicum (or Field Experience) – Web Page, Digital/Multimedia and Information Resources Design.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. This is work-based instruction that provides basic career exploration and helps students gain practical experience in the discipline, enhance skills, and integrate knowledge. The emphasis is on practical work experience. Indirect supervision is provided by the employer. A practicum may be a paid or unpaid learning experience. 96 external hours. This course should be taken during the final semester before graduation. Prerequisite: To enroll in IMED 2266, students must have a B or better in the following four courses, ARTC 1402 Digital Imaging I, ARTC 2405 Digital Imaging II, ARTC 1413 Digital Publishing, and ARTC 2413 Digital Publishing II.

**IMED 2309 – Internet Commerce.** 3 credit hours. An overview of the Internet as a marketing and sales tool with emphasis on developing a prototype for electronic commerce. 48 lecture and 16 lab hours. Lab Fee.

**IMED 2315 – Web Page Design II.** 3 credit hours. A study of mark-up language and advanced layout techniques for creating web pages. Emphasis on identifying the target audience and producing web sites, according to accessibility standards, cultural appearance, and legal issues. 48 lecture and 16 lab hours. Prerequisite: IMED 1416. Lab Fee.

**IMED 2411 – Portfolio Development.** 4 credit hours. Preparation and enhancement of portfolio to meet professional standards, development of presentation skills, and job seeking techniques. This course should be taken the final semester before graduation. 32 lecture and 64 lab hours. Lab fee.

**INEW 2330 – Comprehensive Software Project: Planning & Design.** 3 credit hours. A comprehensive application of skills learned in previous courses in a simulated workplace. Covers the development, testing, and documenting of a complete software and/or hardware solution. This course may be used as a capstone course for a certificate or degree. 48 lecture and 16 lab hours. Lab fee. Prerequisite: ITSE 1350. Lab fee.

**INEW 2332 – Comprehensive Software Project: Coding, Testing, and Implementation.** 3 credit hours. A comprehensive application of skills learned in previous semesters in a simulated workplace. Includes coding, testing, maintenance, and documentation of a complete software and/or hardware solution. This course may be used as a capstone course for a degree. 48 lecture and 16 lab hours. Lab fee. Prerequisite: INEW 2330. Lab fee.

**INEW 2338 – Advanced Java Programming.** 3 credit hours. A continuation of Java programming techniques and advanced graphical functions. 32 lecture and 32 lab hours.

**INRW 0420.** Integration of critical reading and academic writing skills. The course fulfills TSI requirements for reading and/or writing. The INRW cannot be used toward credit for an associate degree and is not intended for transfer to a senior college. Eligibility: As per the current TSI Assessment Placement Chart; Benefit: complete reading and writing in one semester; Attendance required in lecture and lab hours. 64 lecture hours.

**INTC 1301 – Principles of Industrial Measurements.** 3 credit hours. A study of the principles and devices for the measurement of control variables such as temperature, pressure, flow, level, and basic control functions. The student will demonstrate the fundamentals of tubing layout and bending; apply the principles of process instruments and devices; and describe the control loop as applied to control and detection of pressure, temperature, level, flow, etc. 48 lecture hours. Prerequisite Associate of Applied Science in Electromechanical Technology.

**INTC 2359 – Distributed Control Systems.** 3 credit hours. Philosophy and application of distributed control systems. Includes hardware, firmware, software, configuration, communications and networking systems required to implement a distributed control strategy. Corequisite: TECM 1301. 32 lecture and 48 lab hours. Lab fee.

**ITCC 1414 – CCNA: Introduction to Networks.** 4 credit hours. This course covers networking architecture, structure, security, and functions; introduces the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations to provide a foundation for the curriculum. Configure a small network using basic security; perform basic configuration on routers and switches; implement IP addressing schemes. 48 lecture and 32 lab hours. Lab fee.

**ITCC 1444 – CCNA 2: Switching, Routing, and Wireless Essentials.** 4 credit hours. Describes the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts; provides an in-depth understanding of how routers and switches operate and are implemented in the LAN environment. Configure, secure, and maintain routers and switches; resolve common issues with routing protocols, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks; configure WLANs. Prerequisite: ITCC 1414. 48 lecture and 32 lab hours. Lab fee.

**ITCC 2343 – Network Security.** 3 credit hours. Overall security processes with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies; products and solutions; firewall and secure router design, installation, configuration, and maintenance; AAA and VPN implementation using routers and firewalls. Explain network threats, mitigation techniques, and the basics of securing a network; secure administrative access on routers using AAA; implement firewall technologies to secure the network perimeter; configure IPS to mitigate attacks on the network; implement endpoint and Layer 2 security features; and implement secure virtual private networks. 48 lecture and 16 lab hours. Lab fee.

**ITCC 2420 – CCNA 3: Enterprise Networking, Security, and Automation.** 4 credit hours. Describes the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. Emphasizes network security concepts and introduces network virtualization and automation. Configure advanced routing and switching protocols; resolve common issues with routing and switching protocols; identify threats and enhance network security; implement IPv4 Access Control Lists (ACLs); configure Network Address Translation (NAT) services; explain virtualization, software defined networking, and automation. Emphasizes network security concepts and introduces network virtualization and automation. Prerequisite: ITCC 1444. 48 lecture and 32 lab hours. Lab fee.



**ITNW 1336 – Cloud Deployment & Infrastructure Management.** 3 credit hours. Focus on Cloud infrastructure, deployment, security models, and key considerations in migrating to Cloud computing. Includes the technologies and processes required to build on-premise and Cloud environments, including computation, storage, networking, virtualization, business continuity, security, and management. Assess and plan migration from on-premise to Cloud solution environment; identify methods and tools to maintain security and protect data; differentiate between the various storage, computing, and networking options; identify deployment and management options; deploy available services for scalability, reliability and high availability; use Cloud monitoring and auto-scaling services to scale infrastructure up and down. 32 lecture and 32 lab hours. Lab fee.

**ITNW 1445 – Implementing Network Directory Services.** 4 credit hours. In-depth coverage of the skills necessary to install, configure, and administer Network Directory service. Prerequisite: ITNW 1454 or approval of Dean of Business and Technology. 64 lecture and 16 lab hours. Lab fee.

**ITNW 1453 – Supporting Network Server Infrastructure.** 4 credit hours. Installing, configuring, managing, and supporting a network infrastructure. Install and configure DHCP, DNS, remote access, network security using public key infrastructure; integrate network services; and deploy operating systems using remote installation services. 48 lecture and 32 lab hours. Lab fee.

**ITNW 1454 – Implementing and Supporting Servers.** 4 credit hours. Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment. Configure peripherals and devices; set up servers; configure directory replication; manage licensing; create and manage system policies and profiles; administer remote servers and disk resources; create and share resources; implement fault-tolerance; configure servers for interoperability; install and configure Remote Access Service (RAS); and identify and monitor performance bottlenecks and resolve configuration problems. 48 lecture and 32 lab hours. Lab fee.

**ITNW 2264 – Practicum (or Field Experience).** 2 credit hours. Computer Systems Networking and Telecommunications. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry; and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. 224 hours.

**ITNW 2354 – Internet/Intranet Server.** 3 credit hours. Advanced concepts in the designing, installing, and administration of an Internet/Intranet server. Prerequisite: ITNW 1453 or approval of Dean of Business and Technology. 48 lecture and 16 lab hours. Lab fee.

**ITNW 2405 – Network Administration.** 4 credit hours. Topics include network components, user accounts and groups, network file systems, file system security, and network printing. Describe a network; explain the role of directory services; set up and manage users; distributed print services; and file system and directory services security. 48 lecture and 32 lab hours. Lab fee.

**ITNW 2411 – Implementing Mail Servers.** 4 credit hours. An in-depth study of electronic messaging using mail servers. Prerequisite: ITNW 1445 or approval of Dean of Business and Technology. 48 lecture and 32 lab hours. Lab fee.

**ITNW 2452 – Administering SQL Server.** 4 credit hours. Administering SQL Server is a skills development course in the installation, configuration, administration, and troubleshooting of SQL Servers client/server database management system version. Prerequisite: ITNW 1445 or approval of Dean of Business and Technology. 48 lecture and 32 lab hours. Lab fee.

**ITSC 1305 – Introduction to PC Operating Systems.** 3 credit hours. Introduction to personal computer operating systems, including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities. 32 lecture and 32 lab hours. Lab fee.

**ITSC 1316 – Linux Installation and Configuration.** 3 credit hours. Three credit hours. Introduction to Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application installation. Emphasizes hands-on setup, administration, and management of Linux. Install, administer, and manage a Linux system; demonstrate proficiency with Linux utilities, commands, and applications; identify and resolve security-based issues; and integrate a Linux system into an existing network. Thirty-two lecture and thirty-two lab hours. Lab fee.

**ITSE 1307 – Introduction to C++.** 3 credit hours. Introduction to computer programming using C++. Emphasis on the fundamentals of object-oriented design with development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices and files. 48 lecture and 16 lab hours. Lab fee. Prerequisite: ITSC 1301.

**ITSE 1311 - Beginning Web Programming.** 3 credit hours. Skills development in web programming including mark-up and scripting languages. 32 lecture and 32 lab hours.

**ITSE 1329 - Programming Logic and Design.** 3 credit hours. Problem-solving applying structured techniques and representation of algorithms using design tools. Includes testing, evaluation, and documentation. Topics may adapt to changes in industry practices. 48 lecture hours.

**ITSE 1359 - Introduction to Scripting Languages.** 3 credit hours. Introduction to scripting languages including basic data types, control structures, regular expressions, input/output, and textual analysis. Topics may adapt to changes in industry practices. 32 lecture and 32 lab hours.

**ITSE 2302 - Intermediate Web Programming.** 3 credit hours. Server-side and client-side techniques for Web development. 32 lecture and 32 lab hours.

**ITSE 2309 - Database Programming.** 3 credit hours. Database development using database programming techniques emphasizing database structures, modeling, and database access. 32 lecture and 32 lab hours.

**ITSE 2317 – JAVA Programming.** 3 credit hours. JAVA programming for applications and web applets. 48 lecture and 16 lab hours.

**ITSE 2343 - Advanced Mobile Programming.** 3 credit hours. Programming for mobile devices including file access methods, data structures, modular programming, program testing and documentation. 32 lecture and 32 lab hours.

**ITSE 2345 - Data Structure.** 3 credit hours. Design and analysis of data structures and their operations. 32 lecture and 32 lab hours.

**ITSE 2386 - Internship - Computer Programming/Programmer – General –** 3 credit hours. A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. 240 external hours.

**ITSW 1301 – Intro to Word Processing.** 3 credit hours. An overview of the production of documents, table, and graphs. Prerequisites: POFT 1429 or advisor approval. 48 lecture and 16 lab hours. Lab fee.

**ITSW 1304 – Introduction to Spreadsheets.** 3 credit hours. Instruction in the concepts, procedures, and application of electronic spreadsheets. 48 lecture and 16 lab hours. Lab fee.

**ITSW 1307 – Introduction to Database.** 3 credit hours. Introduction to database theory and the practical applications of a database. 48 lecture and 16 lab hours. Lab fee.

**ITSW 1310 – Introduction to Presentation Graphics Software.** 3 credit hours. Instruction in the utilization of presentation software to produce multimedia presentations. Graphics, text, sound, animation and/or video may be used in presentation development. Used as a capstone for the Microcomputer certificate. 48 lecture and 16 lab hours. Lab fee.

**ITSY 1300 - Fundamentals of Information Security.** 3 credit hours. An introduction to information security including vocabulary and terminology, ethics, the legal environment, and risk management. Identification of exposures and vulnerabilities and countermeasures are addressed. The importance of appropriate planning, policies and controls is also discussed. 48 lecture hours.

**ITSY 1342 – Information Technology Security.** Information Technology Security. 3 credit hours. Instruction in security for network computer hardware, software, virtualization, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses. Topics may adapt to changes in industry practices. 32 lecture and 32 lab hours.

**ITSY 1333 – Mobile Applications Development.** 3 credit hours. An overview of different mobile platforms and their development environments. 48 lecture and 16 lab hours.

**ITSY 2430 – Intrusion Detection.** 4 credit hours. Computer information systems security monitoring, intrusion detection, and crisis management. Includes alarm management, signature configuration, sensor configuration, and troubleshooting components. Emphasizes identifying, resolving, and documenting network crises and activating the response team. Build IDS sensors and attach them to the network (hardware and software); install and manage a secure communication link between all sensors and the monitor; install and manage event database(s); analyze an event and trends; install, manage, and interpret syslog servers and system logs; identify legal and policy issues associated with system and

network monitoring; and deploy, implement, and test IDS security plan. 48 lecture and 32 lab hours. Lab fee.

**LGLA 1119 – Legal Ethics & Professional Responsibility.** 1-hour credit. The ethical and legal responsibilities and duties that a member of the legal profession owes to the public, the court, clients, and other professional colleagues. Includes a review of the canons, codes, and rules of professional responsibility. The student will define and properly use terminology related to legal ethics; describe the ethical responsibilities of lawyers and law office personnel; recognize breaches of ethical obligations that may result in malpractice or disciplinary actions; and demonstrate knowledge of the canons of legal ethics governing legal professionals. Prerequisite or concurrent enrollment in LGLA 1307. 16 lecture hours.

**LGLA 1303 – Legal Research.** 3 credit hours. Law library techniques and computer-assisted legal research. The student will locate, read and understand primary and secondary legal authority; design and implement effective research strategies; and be familiar with computer-assisted legal research tools and the proper role of these tools. Prerequisite: LGLA 1307. 48 lecture hours with extensive outside use of legal research resources.

**LGLA 1307 – Introduction to Law and the Legal Profession.** 3 credit hours. This course provides an overview of the law and of legal professions. Topics include legal concepts, systems and terminology; ethical obligations and regulations; professional trends and issues with particular emphasis on the paralegal. The student will develop a legal vocabulary; explain fundamental legal concepts and systems; explain the ethical obligations of the legal profession with particular emphasis on the paralegal's role; and discuss topics relating to the paralegal profession. 48 lecture hours.

**LGLA 1345 – Civil Litigation.** 3 credit hours. This course presents fundamental concepts and procedures of civil litigation with emphasis on the paralegal's role. Topics include pretrial, trial, and post-trial phases of litigation. The student will define and properly use terminology relating to civil litigation; locate, describe, and analyze sources of law relating to the civil litigation and applicable court rules; describe and analyze other sources of law relating to constitutional law; locate, US Constitution and its amendments. Prerequisite or concurrent enrollment in LGLA 1307. 48 lecture hours.

**LGLA 1351 – Contracts.** 3 credit hours. This course presents fundamental concepts of contract law with emphasis on the paralegal's role. Topics include formation, performance, and enforcement of contracts under the common law and the Uniform Commercial Code. The student will define and properly use terminology relating to contract law; locate, describe, and analyze sources of law relating to contract law; describe the role and ethical obligations of the paralegal relating to contract law; and draft documents commonly used in contract law. Prerequisite or concurrent enrollment in LGLA 1307. 48 lecture hours.

**LGLA 1353 – Wills, Trusts and Probate Administration.** 3 credit hours. This course presents fundamental concepts of the law of wills, trusts, and probate administration with emphasis on the paralegal's role. The student will define and properly use terminology relating to wills, trusts, and probate administration; locate, describe, and analyze sources of law relating to wills, trusts, and probate administration; describe the role and ethical obligations of the paralegal relating to wills, trusts, and probate administration; and draft documents commonly used in wills, trusts, and probate administration. Prerequisite or concurrent enrollment in LGLA 1307. 48 lecture hours.

**LGLA 1355 – Family Law.** 3 credit hours. This course presents fundamental concepts of family law with emphasis on the paralegal’s role. Topics include formal and informal marriages, divorce, annulment, marital property, and the parent-child relationship. The student will define and properly use terminology relating to family law; locate, describe, and analyze sources of law relating to family law; describe the role and ethical obligations of the paralegal relating to family law; and draft documents commonly used in family law. Prerequisite or concurrent enrollment in LGLA 1307. 48 lecture hours.

**LGLA 1391 – Special Topics in Paralegal/Legal Assistant.** 3 credit hours. Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Learning outcomes/objectives are determined by local occupational need and business and industry trends. Prerequisites: Completion of 45 hours in the program including LGLA 1303 and LGLA 1307. 48 lecture hours.

**LGLA 2266 – Practicum (or Field Experience).** 2 credit hours. Practical general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. As outlined in the learning plan, the student will apply the theory, concepts, and skills involving specialized tools, materials, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental, social and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, appropriate verbal and written communication skills using the terminology of the occupation and the business/industry. Prerequisites: LGLA 1303, 1307, 1345, 1351, 2303, 2309 and 2313 or permission of the instructor. 208 practicum and 16 lecture hours.

**LGLA 2303 – Torts and Personal Injury Law.** 3 credit hours. This course presents fundamental concepts of tort law with emphasis on the paralegal’s role. Topics include intentional torts, negligence, and strict liability. The student will define and properly use terminology relating to tort law; locate, describe, and analyze sources of law relating to tort law; describe the role and ethical obligations of the paralegal in tort law; and draft documents commonly used in tort law. Prerequisite or concurrent enrollment in LGLA 1307. 48 lecture hours.

**LGLA 2305 – Interviewing and Investigating.** 3 credit hours. This course is a study of principles, methods, and investigative techniques utilized to locate, gather, document and manage information. Emphasis on developing interviewing and investigative skills to prepare the paralegal to communicate effectively while recognizing ethical problems. The student will conduct effective interviews with clients and witnesses in preparation for alternative dispute resolution and litigation processes; utilize multiple sources of information; and apply ethical standards in interviewing and investigation. Prerequisite or concurrent enrollment in LGLA 1307. 48 lecture hours.

**LGLA 2309 – Real Property.** 3 credit hours. This course presents fundamental concepts of real property law with emphasis on the paralegal’s role. Topics include the nature of real property, rights and duties of ownership, land use, voluntary and involuntary conveyances, and the recording of and searching for real estate documents. The student will define and properly use terminology relating to real property; locate, describe, and analyze sources of law relating to real property; describe the role and ethical obligations of

the paralegal relating to real property transactions; and draft documents commonly used in real property transactions. Prerequisite or concurrent enrollment in LGLA 1307. 48 lecture hours.

**LGLA 2313 – Criminal Law and Procedure.** 3 credit hours. Procedures from arrest to final disposition, principles of federal and state law, and the preparation of pleadings and motions as applied to paralegals. The student will define and properly use terminology relating to criminal law; locate and analyze cases and statutes relating to criminal law; evaluate the role and ethical obligations of the paralegal relating to criminal law; and draft documents commonly used in criminal law. Prerequisite or concurrent enrollment in LGLA 1307. 48 lecture hours.

**LGLA 2331 – Advanced Legal Research and Writing.** 3 credit hours. Computerized research techniques and preparation of complex legal documents such as briefs, legal office memoranda, and citation forms. The student will analyze complex legal issues; apply effective research strategies to resolve those issues and report the results in an acceptable written legal format. Prerequisite: LGLA 1307, prerequisite LGLA 1303 or approval of the instructor. 48 lecture hours.

**LGLA 2371 – Advanced Criminal Law and Procedure.** 3 credit hours. Advanced concepts of the procedural rules of criminal cases in Texas. This class will be focused primarily on Texas criminal procedural rules, as opposed to federal criminal procedure. The students will learn how a criminal case procedurally goes through the Texas system, including studying criminal investigation (search warrants, arrest warrants, etc.), arrests v. investigatory stops, booking, first appearance, bail procedures, examining trials, grand jury, indictments, pre-trial matters, motions to suppress, criminal discovery, motions in limine, plea bargaining, negotiations and procedures, jury selection, trial proceedings, various rules of evidence that apply to Texas criminal cases, appellate procedures, and the paralegal's role and job opportunities in the criminal justice system. Prerequisite or concurrent enrollment in LGLA 1307. 48 lecture hours.

**LOTT 1301 – Introduction to Fiber Optics.** 3 credit hours. An introductory course in fiber optics and its application, including advantages of fiber, light transmission in fiber, types of fiber, sources, detectors, and connectors. 32 lecture and 32 lab hours. Lab fee.

**NOTE REGARDING MATH COURSES:** Students without adequate placement to enroll in MATH 1314, MATH 1324, MATH 1332, MATH 1342 can gain admission to the course by earning a C or better in MATH 0420 or MATH 0425, depending on the pathway. Students wishing to enroll in MATH 13xx must satisfy one of the following:

1. Have passed the stated prerequisite course or an equivalent transfer course with a C or better
2. Have placed into the course with an adequate ACT or SAT Math score or through the TSI.

**MATH 0420 – Introductory Algebra.** The course supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Topics include the study of numeracy and the real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models; and problem solving. This course is designed for students who plan to take MATH 1314, MATH 1324 or MATH 1342. This course will not count toward a degree and is not intended for transfer. 4 lecture hours each week.

**MATH 0425 – Foundations of Mathematical Reasoning.** This course surveys a variety of mathematical topics needed to prepare students for college level statistics or quantitative reasoning for algebra-based courses. Topics include: numeracy with an emphasis on estimation and fluency with large numbers; evaluating expressions and formulas; rates, ratios, and proportions; percentages; solving equations; linear models; data interpretations including graphs and tables; verbal, algebraic and graphical representations of functions; exponential models. This course will not count toward a degree and is not intended for transfer. 4 lecture hours each week. Successful completion (C or better) will fulfill TSI requirements for non-Algebra based courses.

**MATH 1314 – College Algebra.** 3 credit hours. In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Prerequisite: Meet TSI college readiness standard for mathematics or co-enroll in NCBM 0214. 48 lecture hours.

**MATH 1324 – Mathematics for Business & Social Sciences.** 3 credit hours. The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value. Prerequisite: Meet TSI college-readiness standard for mathematics or co-enroll in MATH 0224. 48 lecture hours.

**MATH 1325 – Calculus for Business & Social Sciences.** 3 credit hours. This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2413, Calculus I. Prerequisite: Must have passed MATH 1324 Mathematics for Business & Social Sciences or MATH 1314 College Algebra, or an equivalent transfer course with a C or better. 48 lecture hours.

**MATH 1332 – Contemporary Mathematics (Math for Liberal Arts Majors I).** 3 credit hours. Intended for non-STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered. Prerequisite: Meet TSI college readiness standards for mathematics or co-enroll in NCBM 0132. 48 lecture hours.

**MATH 1342 – Elementary Statistical Methods.** 3 credit hours. Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. Prerequisite: Meet TSI college readiness standard for mathematics or co-enroll in MATH 0142. 48 lecture hours.

**MATH 1350 –Mathematics for Teachers I.** 3 credit hours. This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the conceptual development of the following: sets, functions, numeration systems, number theory, and properties of the various number

systems with an emphasis on problem solving and critical thinking. Prerequisite: MATH 1314/1414 with a grade of C or higher. 48 lecture hours.

**MATH 1351 – Mathematics for Teachers II.** 3 credit hours. This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the concepts of geometry, measurement, probability, and statistics with an emphasis on problem solving and critical thinking. MATH 1314/1414 with a grade of C or higher. 48 lecture hours.

**MATH 2320 – Differential Equations.** 3 credit hours. Ordinary differential equations, including linear equations, systems of equations, equations with variable coefficients, existence and uniqueness of solutions, series solutions, singular points, transform methods, and boundary value problems; application of differential equations to real-world problems. 48 lecture hours. Prerequisite: Must have passed MATH 2414 Calculus II or an equivalent transfer course with a C or better. This course is only offered in the spring.

**MATH 2412 – Pre-Calculus Math.** 4 credit hours. In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. 64 lecture hours. Prerequisite: Must have passed MATH 1314 College Algebra or an equivalent transfer course with a C or better.

**MATH 2413 – Calculus I.** 4 credit hours. Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas. 64 lecture hours Prerequisite: Must have passed MATH 2412 Precalculus Math or an equivalent transfer course with a C or better.

**MATH 2414 – Calculus II.** 4 credit hours. Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals. 64 lecture hours. Prerequisite: Must have passed MATH 2413 Calculus I or an equivalent transfer course with a C or better.

**MATH 2415 – Calculus III.** 4 credit hours. Advanced topics in calculus, including vectors and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral, including Green's Theorem, the Divergence Theorem, and Stokes' Theorem. 64 lecture hours. Prerequisite: Must have passed MATH 2414 Calculus II or an equivalent transfer course with a C or better.

**MCHN 1190 – Special Topics in Machine Shop Assistant.** 1-hour credit. Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Must be taken with MCHN 1441. 32 lab hours. Lab fee.

**MCHN 1191 – Special Topics in Machine Shop Assistant.** 1-hour credit. Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. To be repeated once for credit. Must be taken with MCHN 1452 and MCHN 1454. 32 lab hours. Lab fee.



**MCHN 1343 – Machine Shop Mathematics.** 3 credit hours. Designed to prepare the student with technical, applied mathematics skills that will be necessary in future machine shop-related courses. The student will define the use of formulas and identify conversion methods of numbering systems; convert fractions to decimals and back; use formulas in solving measurement problems; and compute correctly by adding, subtracting, multiplying, and dividing whole numbers, decimals, fractions and mixed numbers. 48 lecture hours. Lab fee.

**MCHN 1426 – Introduction to CAM.** 4 credit hours. A study of Computer-Assisted Manufacturing (CAM) systems. Software is used to develop application for manufacturing. Emphasis is on tool geometry, tool selection, and the tool library. The student will demonstrate knowledge of Computer-Assisted Manufacturing systems, create, download, and machine parts using Computer-Assisted Manufacturing software. Prerequisites: DFTG 1325, MCHN 1343, and 1438. 32 lecture and 64 lab hours. Lab fee.

**MCHN 1438 – Machining I.** 4 credit hours. An introduction to machine shop theory, math and terminology, basic bench work, and part layout using a variety of common measuring tools. Application of basic operation of machine tools, such as handsaws, grinders, drill presses, lathes and mills with common hand tools. The student will identify machine parts and their functions; select layout tools and techniques; define machine shop terminology; perform basic machine setups; calculate common shop formulas; perform semi-precision and precision layout; execute grinding techniques; demonstrate basic machine operations; and apply proper measuring tools. 32 lecture and 64 lab hours. Lab fee.

**MCHN 1441 – Basic Machine Shop II.** 4 credit hours. A continuation of Basic Machine Shop I. The student will identify machine parts and their function; select layout tools and techniques; define machine shop terminology; perform basic machine setups; calculate common shop formulas; perform semi-precision layout; execute grinding techniques; demonstrate basic machine operations; and apply proper measuring tools. Prerequisite: MCHN 1438. 32 lecture and 64 lab hours. Lab fee.

**MCHN 1452 – Intermediate Machining I.** 4 credit hours. Operation of drills, milling machines, lathes, and power saws. Introduction to precision measuring tools. The student will use shop machine tools and measuring tools; use shop machinery and tools in a safe manner; and use precision measuring instruments to defined tolerances. Corequisite: MCHN 1441. 32 lecture and 64 lab hours. Lab fee.

**MCHN 1454 – Intermediate Machining II.** 4 credit hours. This course provides further instruction in the operation of lathes, milling machines, surface grinders to produce more advanced knowledge and projects. OD and ID grinding will also be covered. Development of job process plan to include operation of lathes, milling machines, drill presses, and power saws. Set-up, layout, and tool maintenance is included. Emphasis on shop safety and preventative maintenance. 32 lecture and 64 lab hours. Prerequisite MCHN 1452 Lab fee.

**MCHN 2431 – Operation of CNC Turning Centers.** 4 credit hours. CNC operations with emphasis on turning centers, programming, setup, tool selection and machine operation. 48 lecture and 48 lab hours. Lab fee.

**MCHN 2434 – Operation of CNC Machining Centers.** 4 credit hours. CNC operation with an emphasis on machining centers. 32 lecture and 64 lab hours. Prerequisite MCHN 2431. Lab fee.

**MCHN 2438 – Advanced Computer-Assisted Manufacturing (CAM).** 4 credit hours. Use Computer-Aided Manufacturing (CAM) software to create multi-axis part programs; transfer programs to the machine control unit; and machine parts. 32 lecture and 64 lab hours. Prerequisite MCHN 1426. Lab fee.

**MCHN 2441 – Advanced Machining Operations I.** 4 credit hours. An advanced study of lathe and milling operations. Emphasis is on advanced cutting operations of the lathe and milling machines, including the use of carbide insert tooling, special tooling, bench assembly, and materials metallurgy. The student will identify and apply special tooling for the lathe and milling machines; interpret advanced operation formulas; list machine and work setup procedures; identify and select proper materials for machining of specific materials; calculate feeds and speeds; calculate machine movements; perform advanced lathe and milling machine setup operations; and perform advanced machining operation to specifications. Prerequisite: Associate of Applied Science in Machine Tool Technology. 32 lecture and 64 lab hours. Lab fee.

**MCHN 2445 – Advanced Machining Operations II.** 4 credit hours. Advanced milling, drilling, grinding, and lathe operations to close tolerance dimensions. Emphasis is on job planning and advanced uses of precision measuring instruments. The student will hold close tolerances on mills, lathes, drills, and grinders; and make complicated setup on lathes, mills, grinders, and drills. Prerequisite: MCHN 2441. 32 lecture and 64 lab hours. Lab fee.

**MRKG 1311 – Principles of Marketing.** 3 credit hours. Introduction to the marketing mix functions and process. Includes identification of consumer and organizational needs and explanation of environmental issues. 48 lecture hours.

**MRKG 2333 – Principles of Selling.** 3 credit hours. Overview of the selling process. Identification of the elements of the communication process between buyers and sellers. Examination of the legal and ethical issues of organizations which affect salespeople. 48 lecture hours.

**Music, Applied.** All music majors should enroll in private lessons for 2 credit hours in their principal area (one hour lesson each week) and 1-hour credit in a secondary area (Piano class or one-half hour lesson each week). If the principal area is not piano, then the secondary area of study should be piano. Non-music majors may take applied lessons as an elective by audition and consent of instructor. All applied students will be required to perform in juries at semester's end. *All applied students must have the required prerequisite and be advised by the appropriate instructor before enrolling.*

**Applied Guitar.** Fundamentals of classic guitar playing with emphasis on development of right-hand and left-hand technique. The instructor will select repertoire from composers such as Sor, Tarrega, Giuliani, Carcassi and others to meet the individual needs of the student. Prerequisite: MUSI 1192 or by audition and consent of instructor. Lab fee.

**Applied Piano.** The development of essential skills of piano playing. Materials will be selected from composers represented in various time periods to meet the needs of the individual student. Prerequisite: MUSI 2182 or by audition and consent of instructor. Lab fee.

**Applied Voice.** Fundamentals of voice, with added instruction in correct posture, breathing, tone production, and placement. Fundamentals of English, Italian, German, and French diction through repertoire selected by the instructor to meet the needs of the individual student. Prerequisite: MUSI 1183 or by audition and consent of instructor. Lab fee.

**Applied Band Instruments.** Individual instruction on trumpet, trombone, French horn, tuba, euphonium, saxophone, clarinet and flute. Repertoire to be determined by instructor to meet the individual needs of the student. Prerequisite: previous orchestra or band experiences or by audition and consent of the instructor. Lab fee.

**Principal Instrument/Elective.** 2 credit hours. 16 lab hours.

MUAP 1261, 1262, 2261, 2262 Guitar  
MUAP 1213, 1214, 2213, 2214 Bass Guitar  
MUAP 1269, 1270, 2269, 2270 Piano  
MUAP 1281, 1282, 2281, 2282 Voice  
MUAP 1237, 1238, 2237, 2238 Trumpet  
MUAP 1245, 1246, 2245, 2246 Trombone  
MUAP 1241, 1242, 2241, 2242 Horn  
MUAP 1249, 1250, 2249, 2250 Euphonium  
MUAP 1253, 1254, 2253, 2254 Tuba  
MUAP 1233, 1234, 2233, 2234 Saxophone  
MUAP 1229, 1230, 2229, 2230 Clarinet  
MUAP 1217, 1218, 2217, 2218 Flute  
MUAP 1257, 1258, 2257, 2258 Percussion  
MUAP 1201, 1202, 2101, 2102 Strings

**Secondary Instrument/Elective.** 1-hour credit. 8 lab hours.

MUAP 1161, 1162, 2161, 2162 Guitar  
MUAP 1113, 1114, 2113, 2114 Bass Guitar  
MUAP 1169, 1170, 2169, 2170 Piano  
MUAP 1181, 1182, 2181, 2182 Voice  
MUAP 1137, 1138, 2137, 2138 Trumpet  
MUAP 1145, 1146, 2145, 2146 Trombone  
MUAP 1141, 1142, 2141, 2142 Horn  
MUAP 1149, 1150, 2149, 2150 Euphonium/Baritone  
MUAP 1153, 1154, 2153, 2154 Tuba  
MUAP 1133, 1134, 2133, 2134 Saxophone  
MUAP 1129, 1130, 2129, 2130 Clarinet  
MUAP 1117, 1118, 2117, 2118 Flute  
MUAP 1157, 1158, 2157, 2158 Percussion  
MUAP 1167, 1168, 2167, 2168 Organ  
MUAP 1101, 1102, 2101, 2102 Strings

**MUEN 1121-1122, 2121-2122 – Jazz Band.** 1-hour credit. The Swinging Roadrunner is an ensemble group open to all college instrumentalists by audition, regardless of their major field. Repertoire consists of

music selected from all stylistic periods of jazz. Includes a study of basic improvisation and general jazz history. Students participate in concerts at Angelina College and in the surrounding community. 48 lab hours. Lab fee.

**MUEN 1123-1124, 2123-2124 – Concert Band.** 1-hour credit. An ensemble course open to the general student with high school or other previous band experience. The group performs a variety of band literature including marches, overtures, and arrangements of contemporary music. 48 lab hours. Lab fee.

**MUEN 1131-1132, 2131-2132 – Guitar Ensemble.** 1-hour credit. May be taken four successive semesters for credit. The study of duo, trio, and quartet literature as applied in performance settings. Students will participate in recitals at Angelina College and in the surrounding community. 48 lab hours. Prerequisite: Successful completion of MUSI 1303 or consent of instructor through audition. Concurrent enrollment: Applied Guitar class. Lab fee.

**MUEN 1141-1142, 2141-2142 – Chorale.** 1-hour credit. Open to all students. An ensemble course designed to acquaint members with the best in classical and modern choral music. The general development of choral music is surveyed through the study of some major choral works. Choral techniques and group vocal problems are discussed. In order to obtain credit, the student is required to attend all called rehearsals and all public performances. 48 lab hours. Lab fee.

**MUEN 1151-1152, 2151-2152 – AC Singers.** 1-hour credit. An ensemble course designed for students interested in popular, swing and jazz styles. 48 lab hours. Open to students by audition. Concurrent Enrollment: PHED 2104 and MUSI 1141. Lab fee.

**MUSB 1305 – Survey of the Music Business.** 3 credit hours. An overview of the music industry including songwriting, live performance, the record industry, music merchandising, contracts and licenses, and career opportunities. Includes the role of the producer in session planning, communication, budgeting, business aspects, technical considerations, and music markets. Topics to be covered include publishing, copyright laws, licensing, record company operation, management as well as marketing and publicity. 48 lecture hours. Prerequisite: MUSC 2347 or consent of instructor.

**MUSC 1327 – Introduction to Audio Engineering I.** 3 credit hours. The tools, personnel, and standard workflow of a recording studio. Topics include fundamentals of sound and overview of tracking, editing, and mixing audio. 48 lecture and 16 lab hours. Lab fee.

**MUSC 1335 – Commercial Music Software.** 3 credit hours. Specialized training in commercial music software applications. 32 lecture and 64 lab hours. Lab fee.

**MUSC 2101 – Audio Engineering Practices.** 1 credit hour. Application of the concepts and techniques presented in Audio Engineering I and II. A companion lab class to be taken concurrently with MUSC 2427. 32 lab hours. Lab fee.

**MUSC 2286 – Internship – Recording Arts Technology/Technician.** 2 credit hours. A work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within

and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. A learning plan is developed by the college and the employer. 96 lab hours. Prerequisite: Previous or concurrent enrollment in MUSB 1305. Lab fee.

**MUSC 2347 – Audio Engineering III.** 3 credit hours. Advanced techniques in recording and manipulation of audio. Includes digital audio editing, recording techniques, and signal processing. 48 lecture and 16 lab hours. Prerequisite: MUSC 2427. Lab fee.

**MUSC 2427 – Audio Engineering II.** Audio Engineering II. 4 credit hours. Implementation of the recording process, including microphones, audio console, multi-track recorder, and signal processing devices. 48 lecture and 32 lab hours. Prerequisite: MUSC 1327. Lab fee.

**MUSI 1116 – Sight Singing and Ear Training I.** 1 credit hour. Singing tonal music in treble and bass clefs, and aural study of elements of music, such as scales, intervals and chords, and dictation of basic rhythm, melody and diatonic harmony. Required of all music majors in the first semester of the freshman year. Prerequisite or concurrent enrollment: MUSI 1311. 32 lab hours. Lab fee.

**MUSI 1117 – Sight Singing and Ear Training II.** 1 credit hour. Singing tonal music in various clefs, continued aural study of the elements of music, and dictation of intermediate rhythm, melody and diatonic harmony. Required of all music majors in the second semester of the freshman year. Prerequisite: MUSI 1116 with a grade of C or better and concurrent of previous enrollment in MUSI 1312. 32 lab hours. Lab fee.

**MUSI 1181 –Class Piano I.** 1 credit hour. Beginning class instruction in the fundamentals of keyboard technique. Open to all students but will not count toward a major in Piano. Group instruction format. For music majors or by permission of instructor. 48 lab hours. Lab fee. For Music Majors or by permission of instructor.

**MUSI 1182 –Class Piano II.** 1 credit hour. Advanced beginning class instruction in the fundamentals of keyboard technique. Prerequisite: consent of instructor by audition or MUSI 1181 with a grade of C or better. 48 lab hours. Lab fee.

**MUSI 1183 – Voice Class.** 1 credit hour. Class instruction in the fundamentals of singing including breathing, tone production, and diction. Designed for students with little or no previous voice training. Does not apply to a music major degree. The course will fulfill a need for beginning voice students. 48 lab hours. Lab fee.

**MUSI 1192 – Guitar Class.** 1 credit hour. Class instruction in fundamental guitar playing, including technique, music-reading, fretboard theory, melodic and harmonic realizations. 48 lab hours. Lab fee.

**MUSI 1303 – Fundamentals of Music.** 3 credit hours. Introduction to the basic elements of music theory, including scales, intervals, keys, triads, elementary ear training, notation, meter and rhythm. Course does not apply to a music major degree. 48 lab hours.

**MUSI 1306 – Music Appreciation.** 3 credit hours. Understanding music through the study of cultural periods, major composers, and musical elements. Illustrated with audio recordings and live performances. *(Does not apply to a music major degree.)* 48 lecture hours.

**MUSI 1307 – Music Literature.** 3 credit hours. A survey of the styles and forms of music as it developed from the Middle Ages to the present. This course will familiarize the student with cultural context, terminology, genres, and notation. 48 lecture hours.

**MUSI 1310 – American Music.** 3 credit hours. A general survey of various styles of music of the Americas, including but not limited to jazz, folk, rock, and contemporary music. 48 lecture hours.

**MUSI 1311 – Music Theory I.** 3 credit hours. The study of analysis and writing of tonal melody and diatonic harmony, including fundamental music concepts, scales, intervals, chords, 7th chords, and early four-part writing. Analysis of small compositional forms. Optional correlated study at the keyboard. Required of all music majors in the first semester of the freshman year. Prerequisite or concurrent enrollment: MUSI 1116. Prerequisite: MUSI 1301 or equivalent preparation as demonstrated by a placement exam. 48 lecture hours.

**MUSI 1312 – Music Theory II.** 3 credit hours. The study of analysis and writing of tonal melody and diatonic harmony, including all diatonic chords and seventh chords in root position and inversions, non-chord tones, and functional harmony. Introduction to more complex topics, such as modulation, may occur. Optional correlated study at the keyboard. Required of all music majors in the second semester of the freshman year. Prerequisite or concurrent enrollment: MUSI 1117. Prerequisite: MUSI 1311 with a grade of C or equivalent preparation as demonstrated by a placement exam. 48 lecture hours.

**MUSI 2116 – Sight Singing and Ear Training III.** 1 credit hour. Singing more difficult tonal music in various clefs, aural study including dictation of more complex rhythm, melody, chromatic harmony, and extended tertian structures. Prerequisite: MUSI 1117 with a minimum grade of C and concurrent or previous enrollment in MUSI 2311. 32 lab hours. Lab fee.

**MUSI 2117 – Sight Singing and Ear Training IV.** 1 credit hour. Singing advanced tonal music and introduction of modal and post-tonal melodies. Aural study including dictation of advanced rhythm, melody, and harmony. Prerequisite: MUSI 2116 with a minimum grade of C and concurrent or previous enrollment in MUSI 2312. 32 lab hours. Lab fee.

**MUSI 2181 –Class Piano III.** 1 credit hour. Intermediate class instruction of keyboard technique. Prerequisite: Consent of the instructor by audition or MUSI 1182 with a grade of C or better. 48 lecture hours. Lab fee.

**MUSI 2182 –Class Piano IV.** 1 credit hour. Advanced class instruction of keyboard technique. Consent of instructor by audition or MUSI 2181 with a grade of at least “C”. 48 lecture hours. Lab fee.

**MUSI 2311 – Music Theory III.** 3 credit hours. Advanced harmony voice leading, score analysis and writing of more advanced tonal harmony including chromaticism and extended-tercian structures. Optional correlated study at the keyboard. Required of all music majors in the first semester of the sophomore

year. Prerequisite: MUSI 1312 with a minimum grade of C and concurrent or previous enrollment in MUSI 2116. 48 lecture hours.

**MUSI 2312 – Theory Music IV.** 3 credit hours. Continuation of advanced chromaticism and survey of analytical and compositional procedures in post-tonal music. Optional correlated study at the keyboard. Required of all music majors in the second semester of the sophomore year. Prerequisite: MUSI 2311 with a minimum grade of C and concurrent or previous enrollment in MUSI 2117. 48 lecture hours.

**NCBE 0130 or NCBE 0230.** 2 credit hours. Development of college-level writing focusing on idea generation, drafting, organization, revision and utilization of Standard English. The course must be part of a student's co-enrollment (co-requisite) enrollment. The NCBE cannot be used toward credit for an associate degree and is not intended for transfer to a senior college. Eligibility: As per the current TSI Assessment Placement Chart. Benefit: paired with ENGL 1301 with required course grade of a C or better, credit earned can be used in an associate degree; Attendance required in lecture and lab hours. 32 lecture hours.

**NCBE 0220 – BASE Non-Course Competency-Based English.** 2 credit hours. Development of college-level writing focusing on idea generation, drafting, organization, revision and utilization of Standard English. The course must be part of a student's co-enrollment (co-requisite) with an INRW 0320 course. The NCBE cannot be used toward credit for an associate degree and is not intended for transfer to a senior college. 32 lecture hours.

**NCBM 0132 – Pre-Contemporary Mathematics.** 1-hour credit. The NCBM supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Topics include the study of numeracy and the real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models; and problem solving. The NCBM cannot be used as credit toward an associate degree and is not intended for transfer. Corequisite: MATH 1332. 16 lecture hours.

**NCBM 0142 – NCB Statistics Foundations.** 1-hour credit. The NCBM supports students developing knowledge and skills necessary to succeed in MATH 1342, statistics, including communication and appropriate use of technology. Topics include the study of numeracy and the real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models; and problem solving. 16 lecture hours. Required co-requisite MATH 1342.

**NCBM 0214. Non-Course Competency-Based Pre-College Algebra.** 2 credit hours. The NCBM supports students developing knowledge and skills necessary to succeed in MATH 1314, College Algebra. Topics include the study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. Required co-requisite MATH 1314. 32 lecture hours.

**NCBM 0224. Non-Course Competency-Based Pre-Business Math.** 2 credit hours. This course emphasizes the knowledge and skills necessary to succeed in MATH 1324. A study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a

special emphasis on linear and quadratic expressions and equations. 2 lecture hours each week. Required co-requisite MATH 1324. 32 lecture hours.

**NCBR 0130.** 1-hour credit. Development of reading and higher order thinking skills necessary for college readiness with a grade of B or better. The NCBR cannot be used toward credit for an associate degree and is not intended for transfer to a four-year college. Eligibility: As per the current TSI Assessment Placement Chart; Benefit: paired with SOCI 1301 or PSYC 2301 with required course grade of a C or better, credit earned can be used in an associate degree; attendance required in lecture and lab hours. 16 lecture hours.

**NCBR 0220 – BASE Non-Course Competency-Based Reading.** 2 credit hours. Development of reading and higher order thinking skills necessary for college readiness. The course must be part of a student's co-enrollment (co-requisite) with an INRW 0320 course. The NCBR cannot be used toward credit for an associate degree and is not intended for transfer to a four-year college. 32 lecture hours.

**PHED 1100 – Fundamentals of Fitness.** 1-hour credit. Instruction and participation in physical and recreational activities. Students will learn wellness and fitness principles and apply them to a healthy lifestyle by engaging in appropriate wellness activities. Students will also learn to assess and evaluate personal fitness level. Internet instruction only. Purchase of e-book required. Not accepted for physical activity credit at Texas A&M (College Station campus). Special fee. 48 lecture hours.

**PHED 1101 – Exercise and Conditioning I.** 1-hour credit. Instruction and participation in physical and recreational activities. Students will warm-up with stretching and large muscle activities, engage in jogging or walking for aerobic fitness, and finish with stretching and cool down. Emphasis will be on health enhancement. 48 lecture hours. Lab fee.

**PHED 1102 – Swimming I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) This course is designed to teach the basic techniques of swimming and water safety. Students will learn basic concepts of cardiovascular fitness and flexibility. 48 lecture hours. Special fee.

**PHED 1103 – Bowling I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) This course is designed to teach basic concepts of bowling. The student will learn the 4-step approach to delivery, proper release of the ball, release timing, scoring (including calculating average and handicap), and terminology. The student will participate in competition during the course. 48 lecture hours. Special fee.

**PHED 1104 – Dance I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Participation and instruction in Zumba, Hip-Hop, Folk, Modern, Ballet, Tap and/or other dance activities. 48 lecture hours. Lab fee.

**PHED 1105 – Western Dance.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Students will analyze rhythms of music and basic movements associated with various social dances such as waltz, 2-step, polka, schottische, cotton-eyed Joe, etc. 48 lecture hours. Lab fee.



**PHED 1106 – Racquetball I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) This course is designed to teach the basic skills used in racquetball. Basic skills will include grip, serve, offensive strokes and defensive strokes. Practice drills will be utilized to bring the ability of the class to the level that the game can be played for recreational purposes. 48 lecture hours. Special fee.

**PHED 1107 – Tennis I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) This course is designed to teach basic skills of tennis. Basic skills will include grip, serve, offensive strokes and defensive strokes. Practice drills will be utilized to bring the ability of the class to the level that the game can be played for recreational purposes. 48 lecture hours. Special fee.

**PHED 1108 – Weight Training & Conditioning I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Weight training is concerned with the development of flexibility and increased physical capacity. Stress is on muscle strength, endurance, power and speed of movement. 48 lecture hours. Lab fee.

**PHED 1109 – Basketball I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Basic skills in dribbling, shooting, and passing will be taught. Practice drills will be utilized to bring the ability of the class to the level that the game can be played for recreational purposes. 48 lecture hours. Lab fee.

**PHED 1110 – Aerobics I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) This course is designed to utilize various rhythmic aerobic routines including Zumba dance and step aerobics as well as kick-boxing. The workout will include warm-ups, aerobic exercise bouts, cool-downs and heart rate assessments. 48 lecture hours. Lab fee.

**PHED 1111 – Golf I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) This course is designed to teach the basic skills used in golf to the level that the game could be played for recreational purposes. 48 lecture hours. Special fee.

**PHED 1112 – Introduction to Strength & Cardiovascular Fitness.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Students will develop/maintain a fitness regimen designed to improve and maintain cardiovascular fitness, muscular fitness, and flexibility. Students will maintain a daily activity log. 48 lecture hours. Lab fee.

**PHED 1113 – Team Sports I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Students will learn basic skills, techniques, and strategies in selected team sports. Specific sport will be determined by location and instructor and will be identified in the schedule of classes. Potential team sports include but are not limited to: soccer, softball, football, field hockey, etc. 48 lecture hours. Lab fee.

**PHED 1114 – Low-Impact Muscle Conditioning.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Students will tone various muscle groups using principles and movement concepts from yoga, Pilates, and tai chi as well as traditional sculpting exercises using exercise tubes, gliders, stability balls, dumbbells, etc. 48 lecture hours. Lab fee.

**PHED 1115 – Advanced Sports I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits. Must have prior administrative approval.) This course is designed for first year, first semester players who are competing on a collegiate level. Lab fee. 48 lecture hours

**PHED 1116 – Advanced Sports I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits. Must have prior administrative approval.) This course is designed for first year, second semester players who are competing on a collegiate level. Lab fee. 48 lecture hours

**PHED 1117 – Advanced Weight Training I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits. Must have prior administrative approval.) Designed as an in-season weight training class for athletic competitors. Emphasis is placed on maintenance of strength and endurance for students during the season of competition, as well as for injury prevention and flexibility. 48 lecture hours. Lab fee.

**PHED 1118 – Advanced Weight Training I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits. Must have prior administrative approval.) Designed as an in-season weight training class for athletic competitors. Emphasis is placed on maintenance of strength and endurance for students during the season of competition, as well as for injury prevention and flexibility. 48 lecture hours. Lab fee.

**PHED 1119 – Volleyball I.** 1-hour credit. Instruction and participation in physical and recreational activities. Basic offensive and defensive skills in volleyball will be taught. Practice drills will be utilized to bring the ability of the class to the level that the game of volleyball can be played for recreational purposes. 48 lecture hours. Lab fee.

**PHED 1121 – Outdoor Recreation I.** 1-hour credit. Instruction and participation in physical and recreational activities. Students will learn the rules and strategies of a variety of lifetime activities which may include, but is not limited to: croquet, horseshoes, disc golf, washers, and shuffleboard. 48 lecture hours. Lab fee.

**PHED 1122 – Martial Arts I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Students will learn basic skills, rules, strategies, safety practices, self-defense, and/or combat tactics in any of the Asian sports considered to be martial arts. Students will be working toward lower-level competencies/ranking. Prerequisite: minimum level of fitness required to enroll in this class and/or consent of instructor. 48 lecture hours. Lab fee.

**PHED 1123 – Archery I.** 1-hour credit. Instruction and participation in physical and recreational activities. A beginning class in target archery, this course requires no prior knowledge or experience. All equipment is provided. The emphasis is on target archery shooting technique, safety, and the history of archery. Grading is based on shooting skill, proper form, and knowledge of the sport. 48 lecture hours. Lab fee.

**PHED 1124 – Scuba Diving I.** 1-hour credit. Participation and instruction in advanced aquatic activities. Minimal required swimming skills. This course is designed to provide the student with the knowledge and skills to safely scuba dive for recreational purposes. Upon satisfactory completion of the course, the student will be eligible to earn PADI Open Water Certification. 48 lecture hours. Special fee pays for all needed equipment and rental fees except mask, fins, and snorkel. Special fee.

**PHED 1125 – Scuba Diving II.** 1-hour credit. Participation and instruction in advanced aquatic activities. Minimal required swimming skills. This course is designed to provide the student with the knowledge and skills to perform specialty dives toward PADI Advanced Open Water Certification under supervision. 48 lecture hours. Special fee pays for all needed equipment and rental fees except mask, fins, and snorkel. Prerequisite: PHED 1151 or consent of the instructor. Special fee.

**PHED 1126 – High Intensity Interval Training I.** 1-hour credit. Instruction and participation in physical and recreational activities. (Kinesiology majors may have the option of 8 credits.) Students will engage in interval exercise alternating short periods of intense anaerobic exercise with less intense recovery periods. 48 lecture hours. Special fee.

**PHED 1164 – Introduction to Physical Fitness and Wellness.** 1-hour credit. This course will provide an overview of the lifestyle necessary for fitness and health. Students will participate in physical activities and assess their fitness status. Student will be introduced to proper nutrition, weight management, cardiovascular health, flexibility, and strength training. 16 lecture and 16 lab hours. Lab fee.

**PHED 1301 – Foundations of Kinesiology.** 3 credit hours. The purpose of this course is to provide students with an introduction to human movement that includes the historical development of physical education, exercise science, and sport. This course offers the student both an introduction to the knowledge base, as well as, information on expanding career opportunities. (This course will not satisfy the 1-hour activity core course requirement.) 48 lecture hours.

**PHED 1304 – Personal and Community Health.** 3 credit hours. This course provides an introduction to the fundamentals, concepts, strategies, applications, and contemporary trends related to understanding personal and community health issues. This course also focuses on empowering various populations with the ability to practice healthy living, promote healthy lifestyles, and enhance individual well-being. (This course will not satisfy the 1-hour activity core course requirement.) 48 lecture hours.

**PHED 1306 – First Aid.** 3 credit hours. Instruction and practice for emergency care. Designed to enable students to recognize and avoid hazards within their environment, to render intelligent assistance in case of accident or sudden illness, and to development skills necessary for the immediate and temporary care of the victim. Successful completion of the course may enable the student to receive a certificate from a nationally-recognized agency. (This course will not satisfy the 1-hour activity core course requirement.) 48 lecture hours.

**PHED 1308 –Sports Officiating.** 3 credit hours. The purpose of the course is to study officiating requirements for sports and games with an emphasis on mechanics, rule interpretation, and enforcement. (This course will not satisfy the 1-hour activity core course requirement.) 48 lecture hours.

**PHED 1321 – Coaching/Sports/Athletics.** 3 credit hours. Study of the history, theories, philosophies, rules, and terminology of competitive sports. Includes coaching techniques. This course will not satisfy the 1-hour activity core course requirement. 48 lecture hours.

**PHED 1331 – Physical Education for Elementary Education Majors.** 3 credit hours. An overview of the program of activities in elementary school physical education. Includes the study and practice of activities and principles that promote physical fitness with an emphasis on historical development, philosophical implications, physical fitness, and kinesiology. Recommended by the State Department of Education for classroom teachers. (This course will not satisfy the 1-hour activity core course requirement.) 48 lecture hours.

**PHED 1338 – Concepts of Physical Fitness.** 3 credit hours. This course is designed to familiarize students with knowledge, understanding, and values of health-related fitness and its influence on the quality of life emphasizing the development and implementation of fitness programs. (This course will not satisfy the 1-hour activity core course requirement.) 48 lecture hours.

**PHED 1346 – Drug Use and Abuse.** 3 credit hours. Study of the use, misuse, and abuse of drugs and other harmful substances in today's society. Physiological, sociological, and psychological factors will be emphasized. (This course will not satisfy the 1-hour activity core course requirement.) 48 lecture hours.

**PHED 2101 – Exercise and Conditioning II.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) This course is designed to utilize various aerobic exercise equipment and facilities that will raise the student's cardiovascular fitness level. The workouts will include warm-ups, aerobic exercise bouts, cool-downs and heart rate assessments. 48 lecture hours. Prerequisite: PHED 1101. Lab fee.

**PHED 2102 – Swimming II.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Course is designed to provide the individual with the skills and knowledge of water safety techniques and basic rescue that may be used in the event of an emergency. Upon satisfactory completion of course requirements, the appropriate Red Cross Certification is issued. 48 lecture hours. Prerequisite: PHED 1102 or permission of instructor. Special fee.

**PHED 2103 – Bowling II.** 1-hour credit. Instruction and participation in physical and recreational activities. This course is designed to teach continued improvement of bowling skills including different releases for various shots, how to "spot" bowl using lane arrows, and choosing equipment to improve your game. Students will participate in competition and be introduced to league bowling. 48 lecture hours. Prerequisite: PHED 1103 or consent of instructor. Special fee.

**PHED 2104 – Dance II.** 1-hour credit. Instruction and participation in physical and recreational activities. Instruction in various types of dance that may be incorporated into stage performances. 48 lecture hours. Lab fee.

**PHED 2105 – Ballet I.** 1-hour credit. Instruction and participation in physical and recreational activities. This is an introductory course to ballet. Students will learn basic technique, body placement, movement theory, and terminology. Progressive barre and floor work will be included. Students must provide their own ballet shoes. Prerequisite: successful completion of any freshman-level activity course (11xx). 48 lecture hours. Lab fee.

**PHED 2106 – Racquetball II.** 1-hour credit. Instruction and participation in physical and recreational activities. Advanced skills in racquetball. Course emphasis is on continued development of form, skills, systems of play, and consistency. 48 lecture hours. Prerequisite: PHED 1106. Special fee.

**PHED 2107 – Tennis II.** 1-hour credit. Instruction and participation in physical and recreational activities. Advanced skills in tennis. Course includes the development of form, skills, systems of play and consistency. 48 lecture hours. Prerequisite: PHED 1107. Special fee.

**PHED 2108 – Weight Training & Conditioning II.** 1-hour credit. Instruction and participation in physical and recreational activities. Course is concerned with the development of flexibility and increased physical capacity. Stress is on the improvement of muscle strength, endurance power, and speed of movement. Individualized instruction is utilized. 48 lecture hours. Prerequisite: PHED 1108. Lab fee.

**PHED 2109 – Basketball II.** 1-hour credit. Instruction and participation in physical and recreational activities. Advanced skills in basketball. Course emphasis is on continued development of form, skills, systems of play, and consistency. 48 lecture hours. Prerequisite: Consent of instructor. Lab fee.

**PHED 2110 – Aerobics II.** 1-hour credit. Instruction and participation in physical and recreational activities. This course is designed to utilize various advanced aerobic routines that will maintain a higher cardiovascular fitness level. The workouts will include warm-ups, aerobic exercise bouts, cool-downs and heart rate assessments. 48 lecture hours. Prerequisite: PHED 1110 or consent of instructor. Lab fee.

**PHED 2111 – Golf II.** 1-hour credit. Instruction and participation in physical and recreational activities. Advanced skills in golf. Form, improvement, and consistency of skill are stressed. 48 lecture hours. Prerequisite: PHED 1111. Special fee.

**PHED 2112 – Racquet Sports.** 1-hour credit. Instruction and participation in physical and recreational activities. Students will learn basic rules and strategies of multiple activities that require use of a racquet, such as: tennis, badminton, and/or table tennis (ping pong). Prerequisite: successful completion of any freshman-level activity course (11xx) except Racquetball I (PHED 1106) or Tennis I (PHED 1107). 48 lecture hours. Lab fee.

**PHED 2113 – Team Sports II.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Students will learn basic skills and strategies in selected team sports. Specific sport will be determined by location and instructor

and will be identified in the schedule of classes. Potential team sports include but are not limited to: soccer, softball, football, field hockey, etc. This course is considered a second-semester course – not an advanced course. 48 lecture hours. Lab fee.

**PHED 2115 – Advanced Sports II.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Must have prior administrative approval. This course is designed for second year, first semester players who are competing on a collegiate level. 48 lecture hours. Lab fee.

**PHED 2116 – Advanced Sports II.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Must have prior administrative approval. This course is designed for second year, second semester players who are competing on a collegiate level. 48 lecture hours. Lab fee.

**PHED 2117 – Advanced Weight Training II.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Must have prior administrative approval. Designed as an advanced course in-season weight training class for athletic competitors. Students will focus on strength and flexibility specific to their roles in competition. 48 lecture hours. Lab fee.

**PHED 2118 – Advanced Weight Training II.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Must have prior administrative approval. Designed as an advanced course in-season weight training class for athletic competitors. Students will focus on strength and flexibility specific to their roles in competition. 48 lecture hours. Lab fee.

**PHED 2119 – Volleyball II.** 1-hour credit. Instruction and participation in physical and recreational activities. Advanced skills in volleyball. Course includes the development of form skills, and systems of play. 48 lecture hours. Prerequisite: PHED 1100. Lab fee.

**PHED 2121 – Outdoor Recreation II.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Students will learn and practice basic elements and safety principles of a lifetime outdoor sport or activity. Specific activity will be determined by semester and instructor and will be identified in the schedule of classes. Potential activities include, but are not limited to: camping, hiking, fishing, hunting, geocaching, etc. Prerequisite: successful completion of any freshman-level activity course (11xx). 48 lecture hours. Lab fee.

**PHED 2122 – Martial Arts II.** 1-hour credit. Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of 8 credits.) Students will learn advanced skills, rules, strategies, safety practices, self-defense, and combat tactics in any of the Asian sports considered to be martial arts. Students will be working toward higher level competencies/ranking. Prerequisite: successful completion of PHED 1122 in the style being taught and/or consent of instructor. 48 lecture hours. Lab fee.

**PHED 2123 – Archery II.** 1-hour credit. Instruction and participation in physical and recreational activities. This course assumes the student has knowledge and experience in target archery and includes advanced shooting technique, bow tuning, craft construction and tournament preparation. Some equipment purchase is necessary with a cost of approximately \$20. Grading is based on shooting skill, proper form, and knowledge of the sport. 48 lecture hours. Lab fee.

**PHED 2124 – Scuba Diving III.** 1-hour credit. Instruction and participation in physical and recreational activities. This course is designed to provide students with instruction and experience in preparation for PADI Rescue Diver and Emergency First Response certification. Intermediate level of swimming skills required. SCUBA I (or O/W certification) and SCUBA II (or Advanced O/W certification) required. Students will apply navigation and search and rescue/recovery skills learned in the SCUBA II course to assess and respond to emergency dive situations. Also, students will learn CPR and First Aid skills that are applicable to emergency dive situations. 48 lecture hours. Special fee.

**PHED 2126 – High Intensity Interval Training II.** 1-hour credit. Instruction and participation in physical and recreational activities. (Kinesiology majors may have the option of 8 credits.) Students will engage in interval exercise alternating short periods of intense anaerobic exercise with less intense recovery periods. 48 lecture hours. Special fee.

**PHED 2225 – Scuba Diving IV.** 2 credit hours. Instruction and participation in physical and recreational activities. This course is designed to provide students with instruction and experience in preparation for PADI Rescue Divemaster certification. Intermediate to advanced level of swimming skills required. SCUBA I (or O/W certification), SCUBA II (or Advanced O/W certification), SCUBA III (or EFR & Rescue Diver certifications), and 40 logged dives are required. 48 lecture hours. Special fee.

**PHED 2356 – Care and Prevention of Athletic Injuries.** 3 credit hours. Prevention and care of athletic injuries with emphasis on qualities of a good athletic trainer, avoiding accidents and injuries, recognizing signs and symptoms of specific sports injuries and conditions, immediate and long-term care of injuries, and administration procedures in athletic training. (This course will not satisfy the 1-hour core activity course requirement.) 48 lecture hours.

**PHRA 1102 – Pharmacy Law.** 1-hour credit. Overview of federal and state laws governing the practice of pharmacy. The role of the pharmacy technician and the pharmacist and their associated responsibilities. Includes Code of Ethics, patient confidentiality, and a comparison of legal and ethical aspects. 16 lecture hours. Prerequisite: BIOL 2404. Corequisites: PHRA 1313, 1305, and 1266.

**PHRA 1240 – Pharmacy Third Party Payment.** 2 credit hours. Overview of third-party payment and its impact on health care. Includes the principles and practices of managed care pharmacy, Medicaid and Medicare, payment plans, reimbursement methods, and formularies. 32 lecture hours. Prerequisite: PHRA 1243.

**PHRA 1243 – Pharmacy Technician Certification Review.** 2 credit hours. A review of major topics covered on the national Pharmacy Technician Certification Examination (PTCE), Exam for the Certification of Pharmacy Technicians (ExCPT). 32 lecture hours. Prerequisites: BIOL 2404, PHRA 1102, 1301, 1305, 1309, 1313, 1266. Corequisites: PHRA 1345, 1441, 2366.

**PHRA 1266 – Practicum I – Pharmacy Technician/Assistant.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. A health practicum is an unpaid learning experience. 320 contact hours. Prerequisite: BIOL 2404. Corequisites: PHRA 1102, 1313, and 1305.

**PHRA 1301 – Introduction to Pharmacy.** 3 credit hours. An overview of the qualifications, operational guidelines, and job duties of a pharmacy technician. 48 lecture hours.

**PHRA 1305 – Drug Classification.** 3 credit hours. A study of pharmaceutical drugs, abbreviations, classifications, indications, dosages, side effects, and routes of administration. 48 lecture hours. Prerequisite: BIOL 2404. Corequisites: PHRA 1102, 1313 and 1266.

**PHRA 1309 – Pharmaceutical Mathematics I.** 3 credit hours. Solving pharmaceutical calculation problems encountered in the preparation and distribution of drugs. 48 lecture hours.

**PHRA 1313 – Community Pharmacy Practice.** 3 credit hours. Introduction to the skills necessary to process, prepare, label, and maintain records of prescriptions in a community pharmacy to include customer service, count and pour techniques, prescription calculations, drug selection and preparation, over-the-counter drugs, inventory management and legal parameters. 32 lecture and 32 lab hours. Prerequisite: BIOL 2404. Corequisites: PHRA 1102, 1305, and 1266. Lab fee.

**PHRA 1345 – Compounding Sterile Preparations.** 3 credit hours. The process of compounding sterile preparations and aseptic technique within legal and regulatory guidelines specified by USP standards. 32 lecture and 32 lab hours. Prerequisites: PHRA 1102, 1313, 1305, 1301, 1266, 1309, and BIOL 2404. Corequisites: PHRA 1243, 1347, 1441 and 2366. Lab fee.

**PHRA 1347 – Pharmaceutical Mathematics II.** 3 credit hours. Advanced concepts of Pharmaceutical Mathematics. Prerequisites: PHRA 1309.

**PHRA 1350 – Pharmacy Management for Technicians.** 3 credit hours. Current practices and trends in various pharmacy settings including advanced pharmacy management skills. Prerequisite: PHRA 1243.

**PHRA 1441 – Pharmacy Drug Therapy and Treatment.** 4 credit hours. Study of therapeutic agents, their classifications, properties, actions, and effects on the human body and their role in the management of disease. 48 lecture and 32 lab hours. Prerequisites: PHRA 1102, 1301, 1305, 1309, 1313, 1266, and BIOL 2404. Corequisites: PHRA 1243, 1345, 1347, and 2366. Lab fee.

**PHRA 2320 – Advanced Skills for Pharmacy Technicians.** 3 credit hours. Advanced concepts of pharmacy practice designed to help students develop critical thinking skills from previously completed pharmacy coursework. The emphasis is on enhancing the abilities required to perform advanced-level tasks including those related to regulatory/compliance issues and emerging areas of pharmacy practice. Prerequisite: PHRA 1243.



**PHRA 2366 – Practicum II – Pharmacy Technician/Assistant.** 3 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. 360 practicum hours. Prerequisites: PHRA 1102, 1305, 1301, 1266, 1309, 1313, and BIOL 2404. Corequisites: PHRA 1243, 1345, 1347, and 1441.

**PHYS 1105 – Elementary Physics Laboratory.** 1 credit hour. Laboratory experiences to supplement PHYS 1305. 48 lab hours. Corequisite: PHYS 1305. Lab fee.

**PHYS 1115 – Physical Science Laboratory.** 1 credit hour. Laboratory experiences to supplement PHYS 1315. 32 lab hours. Lab fee. Corequisite: PHYS 1315. Lab fee.

**PHYS 1305 – Elementary Physics (Lecture).** 3 credit hours. Conceptual level survey of topics in physics intended for liberal arts and other non-science majors. May or may not include a laboratory. 48 lecture hours.

**PHYS 1315 – Physical Science I (Lecture).** 3 credit hours. Course designed for non-science majors that surveys topics from physics, chemistry, geology, astronomy, and meteorology. May or may not include a laboratory. 48 lecture hours.

**PHYS 1401 – College Physics I (Lecture + Lab).** 4 credit hours. Fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; with emphasis on problem solving. Laboratory activities will reinforce fundamental principles presented in lecture. Three lecture and three lab hours each week. Prerequisite: MATH 1314 College Algebra **and** Math 1316 Plane Trigonometry **or** MATH 2312 Pre-Calculus (MATH 2412 Pre-Calculus may substitute for 2312) **or** with the permission of the dean or instructor. Lab fee.

**PHYS 1402 – College Physics II (Lecture + Lab).** 4 credit hours. Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving. Laboratory activities will reinforce fundamental principles presented in lecture. Three lecture and three lab hours each week. Prerequisite: PHYS 1301 College Physics I (lecture) or PHYS 1401 College Physics I (lecture + lab). Lab fee.

**PHYS 2425 – University Physics I (Lecture + Lab).** 4 credit hours. Fundamental principles of physics, using calculus, for science, computer science, and engineering majors; the principles and applications of classical mechanics, including harmonic motion, physical systems and thermodynamics; and emphasis on problem solving. Basic laboratory experiments support theoretical principles presented in lecture involving the principles and applications of classical mechanics, including harmonic motion and physical systems; experimental design, data collection and analysis, and preparation of laboratory reports. 48 lecture and 48 lab hours. Prerequisite: MATH 2413 Calculus I. Lab fee.

**PHYS 2426 – University Physics II (Lecture + Lab).** 4 credit hours. Principles of physics for science, computer science, and engineering majors, using calculus, involving the principles of electricity and

magnetism, including circuits, electromagnetism, waves, sound, light, and optics. Laboratory experiments support theoretical principles presented in lecture involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics: experimental design, data collection and analysis, and preparation of laboratory reports. 48 lecture and 48 lab hours. Prerequisite: MATH 2414 (Calculus II) and a grade of C or better in PHYS 2425 (University Physics I). Lab fee.

**POFT 1301 – Business English.** 3 credit hours. Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business. 48 lecture hours. Lab fee.

**POFT 1309 – Administrative Office Procedures I.** 3 credit hours. Study of current office procedures, duties, and responsibilities applicable to an office environment. Prerequisite: POFT 1429 or advisor approval. 48 lecture hours.

**POFT 1319 – Records and Information Management I.** 3 credit hours. Introduction to basic records information management filing systems, including manual and electronic filing. 48 lecture hours. Lab fee.

**POFT 1321 – Business Math.** 3 credit hours. Fundamentals of business mathematics including analytical and critical thinking skills. 48 lecture hours.

**POFT 1429 – Beginning Keyboarding.** 4 credit hours. Skill development in keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatting basic documents. 64 lecture hours. Lab fee.

**PSYC 1300 – Learning Framework.** 3 credit hours. A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. (Cross-listed as EDUC 1300) 3 lecture/lab hours. Lab Fee. Cross-listed as EDUC 1300. Students may register for either EDUC or PSYC, but may receive credit for only one of the two. Meet TSI college readiness standards for reading and writing. 48 lecture hours.

**PSYC 2301 – General Psychology.** 3 credit hours. General Psychology is a survey of major psychological topics, theories, and approaches to the scientific study of behavior and mental processes. Prerequisite: Meet TSI college readiness standards for reading and writing. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture hours.

**PSYC 2308 – Child Psychology.** 3 credit hours. This course will address psychological development from conception through middle childhood with references to physical, cognitive, social and personality changes. Students will examine the interplay of biological factors, human interaction, social structures and cultural forces in development. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture hours.

**PSYC 2314 – Lifespan Growth and Development.** Life-Span Growth and Development is a study of social, emotional, cognitive and physical factors and influences of a developing human from conception to death. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture hours.

**PSYC 2315 – Psychology of Adjustment.** 3 credit hours. Study of the processes involved in adjustment of individuals to their personal and social environments. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture hours.

**PSYC 2319 – Social Psychology.** 3 credit hours. Study of individual behavior within the social environment. Topics may include sociopsychological processes, attitude formation and change, interpersonal relations, group processes, self, social cognition, and research methods. (PSYC 2319 is included in the Psychology Field of Study.) Prerequisite: PSYC 2301 and meet TSI college readiness standards for reading and writing. 48 lecture hours.

**RADR 1201 – Introduction to Radiography.** 2 credit hours. An overview of the historical development of radiography, basic radiation protection, an introduction to medical terminology, ethical and legal issues for health care professionals, and an orientation to the profession and the health care system. 32 lecture hours. Corequisites: RADR 1203.

**RADR 1203 – Patient Care.** 2 credit hours. An introduction in patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology. 32 lecture hours. Corequisite: RADR 1201.

**RADR 1266 – Practicum – Radiologic Technology/ Science – Radiographer.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. 224 clinical hours. Prerequisites: RADR 1201 and 1203. Program acceptance is required.

**RADR 1267 – Practicum - Radiologic Technology/ Science-Radiographer.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. 224 clinical hours. Prerequisites: RADR 1266, 1411, 1313 and 2309. Program acceptance is required.

**RADR 1302 –Radiographic Image Evaluation I.** 3 credit hours. Scientific process of radiographic image evaluation. 48 lecture hours. Prerequisites: RADR 2266.

**RADR 1313 – Principles of Radiographic Imaging I.** 3 credit hours. Radiographic image quality and the effects of exposure variables. 48 lecture hours. Prerequisites: RADR 1201 and 1203. Corequisite: RADR 1411 and RADR 2309. Program acceptance is required.

**RADR 1391 – Special Topics in Medical Radiologic Technology/Technician.** 3 credit hours. Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was

designed to be repeated multiple times to improve student proficiency. 48 lecture hours. Prerequisites: RADR 2313, 1302, and 2366. Corequisite: RADR 2335. Program acceptance is required.

**RADR 1411 – Basic Radiographic Procedures.** 4 credit hours. An introduction to radiographic positioning terminology, manipulation of equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for demonstration of basic anatomy. 48 lecture and 64 lab hours. Prerequisites: RADR 1201 and 1203. Lab fee. Program acceptance is required. Lab fee.

**RADR 2266 - Practicum - Radiologic Technology/ Science-Radiographer.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. 224 clinical hours. Prerequisites: RADR 1267, 2401, 2305 and 2333. Program acceptance is required.

**RADR 2305 – Principles of Radiographic Imaging II.** 3 credit hours. Radiographic image quality and the effects of exposure variables, and the synthesis of all variables in image production. 48 lecture hours. Prerequisites: RADR 1313, 1411, and 2309. Program acceptance is required.

**RADR 2309 – Radiographic Imaging Equipment.** 3 credit hours. Equipment and physics of x-ray production. Includes basic x-ray circuits. Also examines the relationship of conventional and digital equipment components to the imaging process. 48 lecture hours. Prerequisites: RADR 1201 and 1203. Corequisites: RADR 1411 and RADR 1313. Program acceptance is required

**RADR 2313 – Radiation Biology and Protection.** 3 credit hours. Effects of radiation exposure on biological systems. Includes typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure. 48 lecture hours. Prerequisites: RADR 1313, 2266, 2305, 2309, 2333, and 2401. Program acceptance is required.

**RADR 2333 – Advanced Medical Imaging.** 3 credit hours. An exploration of specialized imaging modalities. 48 lecture hours. Prerequisite: RADR 1313, 1411, and 2309. Program acceptance is required.

**RADR 2335 – Radiologic Technology Seminar.** 3 credit hours. A capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning. 48 lecture hours. Prerequisites: RADR 2313, 1302 and 2366. Corequisite: RADR 1391. Program acceptance is required.

**RADR 2366 – Practicum – Radiologic Technology/ Science – Radiographer.** 3 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. 384 clinical hours. Prerequisite: RADR 2266. Program acceptance is required.

**RADR 2367 – Practicum – Radiologic Technology/Science – Radiographer.** 3 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. 384 clinical hours. Prerequisite: RADR 2366. Program acceptance is required.

**RADR 2401 – Intermediate Radiographic Procedures.** 4 credit hours. A continuation of the study of the manipulation of radiographic equipment, positioning and alignment of the anatomic structure and

equipment, and evaluation of images for demonstration of anatomy. 48 lecture and 64 lab hours. Prerequisite: RADR 1201, 1266, 1313, 1411, and 2309. Program acceptance is required. Lab fee.

**RELE 1200 – Contract Forms and Addenda.** 2 credit hours. Promulgated Contract Forms, shall include but is not limited to unauthorized practice of law, broker-lawyer committee, current promulgated and approved forms, commission rules governing use forms and case studies involving use of forms. 32 lecture hours.

**RELE 1201 – Principles of Real Estate I.** 2 credit hours. A beginning overview of licensing as a real estate broker or salesperson. Includes ethics of practice as a license holder; titles to and conveyance of real estate, legal descriptions, deeds, encumbrances and liens, distinctions between personal and real property, appraisal, finance and regulations; closing procedures; and real estate mathematics. Covers at least three hours of classroom instruction on federal, state, and local laws relating to housing discrimination, housing credit discrimination, and community reinvestment. Fulfills at least 30 to 60 hours of required instruction for salesperson license. 32 lecture hours. Required for TREC exam.

**RELE 1211 – Law of Contracts.** Two credit hours. Elements of a contract, offer and acceptance, statute of frauds, specific performance and remedies for breach, unauthorized practice of law, commission rules relating to the use of adopted forms and owner disclosure requirements. Forty-eight lecture hours. Required for TREC exam.

**RELE 1221 – Real Estate Marketing.** 2 credit hours. Real estate professionalism and ethics; characteristics of successful salespersons, time management; psychology of marketing; listing procedures; advertising; negotiating and closing financing; and the Deceptive Trade Practices Consumer Protection Act. 48 lecture hours. Recommended for TREC exam.

**RELE 1238 – Principles of Real Estate II.** 2 credit hours. A continuing overview of licensing as a real estate broker or salesperson. Includes ethics of practice as a license holder; titles to and conveyance of real estate; legal descriptions, deeds, encumbrances and liens; distinctions between personal and real property; appraisals; finance and regulations; closing procedures; and real estate mathematics. Covers at least three hours of classroom instruction on federal, state, and local laws relating to housing discrimination, housing credit discrimination, and community reinvestment. Fulfills at least 30 to 60 hours of required instruction for salesperson license. 32 lecture hours. Required for TREC exam.

**RELE 1303 – Real Estate Appraisal.** 3 credit hours. The central purposes and functions of an appraisal, social and economic determinants of value, appraisal case studies, cost, market data and income approaches to value estimates, final correlations, and reporting. 48 lecture hours.

**RELE 1309 – Real Estate Law.** 3 credit hours. Legal concepts of real estate, land description, real property rights, estates in land, contracts, conveyances, encumbrances, foreclosures, recording procedures, and evidence of title. 48 lecture hours.

**RELE 1319 – Real Estate Finance.** 3 credit hours. Monetary systems, primary and secondary money markets, sources of mortgage loans, federal government programs, loan applications, processes and

procedures, closing costs, alternative financial instruments, equal credit opportunity laws affecting mortgage lending. Community Reinvestment Act and the state housing agency. 48 lecture hours.

**RELE 1325 – Real Estate Mathematics.** 3 credit hours. Basic arithmetic skills including mathematical logic, percentages, interest, time, value of money, depreciation, amortization, proration, and estimation of closing statements. Recommended for TREC exam. 48 lecture hours.

**RELE 2201 – Law of Agency.** 2 credit hours. Law of agency, including principal-agent and master-servant relationships, the authority of an agent, the termination of an agent's authority, the fiduciary and other duties of the agent, employment law, deceptive trade practices, listing or buying representation procedures, and the disclosure of an agency. 32 lecture hours. Required for TREC exam.

**RELE 2331 – Real Estate Brokerage.** 3 credit hours. A study of law of agency, planning and organization, operational policies and procedures, recruiting, selection and training of personnel, records and control, and real estate firm analysis and expansion criteria. 48 lecture hours.

**RNSG 1193 – Special Topics in Registered Nursing/Registered Nurse.** 1 credit hour. Topics address recently identified current events, skills, knowledge, and/or attitudes and behavior pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. 16 lecture hours. Lab fee.

**RNSG 1205 – Nursing Skills.** 2 credit hours. Study of the concepts and principles necessary to perform basic nursing skills for the adult patient and demonstrate competence in the performance of nursing procedures. Content includes knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach. 16 lecture and 64 lab hours. Prerequisites: BIOL 2401 and 2402, RNSG 1208, ENGL 1301, PSYC 2301 or 2314, and BIOL 2420. Corequisite: RNSG 1215, 1309, and 1262. Lab fee.

**RNSG 1208 – Dosage Calculations for Nursing.** 2 credit hours. Read, interpret, and solve dosage calculation problems. 32 lecture and 16 lab hours. Prerequisite: Meet TSI college readiness standards for mathematics.

**RNSG 1215 – Health Assessment.** 2 credit hours. Development of skills and techniques required for a comprehensive nursing health assessment within a legal/ethical framework. 16 lecture and 48 lab hours. Prerequisites: BIOL 2401 and 2402, RNSG 1208, ENGL 1301, PSYC 2301 or 2314, and BIOL 2420. Corequisite: RNSG 1205, 1262, and 1309. Lab fee.

**RNSG 1260 – Clinical Nursing-Transitions.** 2 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 144 clinical hours. Prerequisites: BIOL 2401, 2402, and 2420, RNSG 1208, ENGL 1301, PSYC 2314, and a current CPR card. Corequisite: RNSG 1327. Lab fee.

**RNSG 1262 – Clinical Nursing (Fundamentals, Nursing Skills, Physical Assessment).** 2 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Placement in the

first-year nursing curriculum during the fall semester is required. 192 clinical hours. Prerequisites: BIOL 2401 and 2402, RNSG 1208, ENGL 1301, PSYC 2301 or 2314, BIOL 2420, and a current CPR card. Corequisite: RNSG 1205, 1215, and 1309. Lab fee.

**RNSG 1293 – Special Topics in Registered Nursing/Registered Nurse.** 2 credit hours. Topics address recently identified current events, skills, knowledge, and/or attitudes and behavior pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. 32 lecture hours. Lab fee.

**RNSG 1301 – Pharmacology.** 3 credit hours. Introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of each drug classification. Content includes the roles and responsibilities of the nurse in the safe administration of medications within a legal/ethical framework. 48 lecture hours. Prerequisites: completion of all nursing prerequisite courses, RNSG 1205, 1215, 1309, 1262, and BIOL 2420. Corequisites: RNSG 1363 and 1341. Lab and Specialty exam fees.

**RNSG 1309 – Introduction to Nursing.** 3 credit hours. overview of nursing and the role of the professional nurse as provider in patient-centered care, patient safety advocate , member of health care team, and member of the profession. Content includes knowledge, judgment, skills and professional values with a legal/ethical framework. This course lends itself to a blocked approach. 48 lecture hours. Prerequisites: BIOL 2401 and 2402, RNSG 1208, ENGL 1301, PSYC 2301 or 2314, and BIOL 2420. Corequisites: RNSG 1205, 1215, 1262. Lab and specialty exam fees.

**RNSG 1327 – Transition from Vocational to Professional Nursing.** 3 credit hours. content includes health promotion, expanded assessment, analysis of data, clinical reasoning processes and clinical judgment, pharmacology, interdisciplinary teamwork, communication, and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework throughout the lifespan. This course lends itself to either a blocked or integrated approach. 48 lecture hours. Prerequisites: BIOL 2401, 2402 and 2420, RNSG 1208, ENGL 1301, PSYC 2301 or 2314. Corequisite: RNSG 1260. Lab fee.

**RNSG 1341 – Common Concepts of Adult Health.** 3 credit hours. Basic integration of the role of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession. Study of the common concepts of caring for adult patients and families with medical surgical health care needs related to body systems , emphasizing knowledge, judgment, skills, and professional values within a legal/ethical framework . This course lends itself to a blocked approach .48 lecture hours. Prerequisites: RNSG 1205, 1215, 1309 and 1262, BIOL 2420. Corequisites: RNSG 1301, 1262, and 1363.

**RNSG 1343 – Complex Concepts of Adult Health.** 3 credit hours. integration of previous knowledge and skills related to common adult health needs into the continued development of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession in the care of adult patients and families with complex medical-surgical health care needs associated with body systems. Emphasis on complex knowledge, judgments, skills, and professional values within a legal/ethical framework . This course lends itself to a blocked approach. 48 lecture hours. Prerequisites: RNSG 1341, 1363, and 1301, Psych 2314. Corequisite: RNSG 2360. Specialty exam fees.

**RNSG 1363 – Clinical Nursing (Common Concepts of Adult Health).** 3 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Placement in the first-year nursing curriculum during the spring semester is required. 288 clinical hours. Prerequisite: RNSG 1205, 1215, 1262, 1309, and current CPR card. Corequisite: RNSG 1301 and 1341, PSYC 2314. Lab fee.

**RNSG 1412 – Nursing Care of the Childbearing and Childrearing Families.** 4 credit hours. Study of the concepts related to the provision of nursing care for childbearing and childrearing families. Application of clinical reasoning processes and clinical judgment including a focus on the childbearing family during the prenatal, perinatal, postnatal periods and the childrearing family from birth through adolescence; and competency in knowledge, judgment, skill, and professional values within a legal/ethical framework. This course lends itself to a blocked approach. 80 lecture and 16 lab hours. Prerequisites: RNSG 1262, 1341, 1301, 1363 Corequisites: RNSG 1343 and 2360. Specialty exam fees.

**RNSG 2130 – Professional Nursing Review and Licensure Preparation.** (Capstone Course) 1-hour credit. Review of concepts required for licensure examination and entry into the practice of professional nursing. Includes application of National Council Licensure Examination for Registered Nurses (NCLEX-RN) test plan, assessment of knowledge deficits, and remediation. 16 lecture hours. Prerequisites: RNSG 1343, 1412, 2360. Corequisite: 2213, 2331, and 2363. Specialty exam fees.

**RNSG 2213 – Mental Health Nursing.** 2 credit hours. Principles and concepts of mental health, psychopathology, and treatment modalities related to the nursing care of patients and their families. This course lends itself to a blocked approach. Prerequisites: RNSG 1343, 1412, and 2360. Corequisite: RNSG 2130, 2213, and 2363. Specialty exam fees.

**RNSG 2331 – Advanced Concepts of Adult Health.** 3 credit hours. Application of advanced concepts and skills for the development of the professional nurse's roles in caring for adult patients and families. Emphasis on advanced knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach. 48 lecture hours. Prerequisites: RNSG 1343, 1412, and 2360. Corequisites: RNSG 2130, 2213, and 2363. Specialty exam fees.

**RNSG 2360 – Clinical Nursing.** 3 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Placement in second-year nursing curriculum during the fall semester is required. 288 clinical hours. Prerequisites: RNSG 1341, 1363, 1301, and a current CPR card. Co-requisites: RNSG 1343 and 1412. Lab fee.

**RNSG 2363 – Clinical Nursing (Advanced Concepts of Adult Health/Mental Health Nursing).** 3 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Placement in second-year nursing curriculum during the spring semester is required. 288 clinical hours. Prerequisites: RNSG 1412, 1343, 2360, and a current CPR card. Corequisite: RNSG 2130, 2331, and 2313. Lab fee.



**RSPT 1137 - Basic Dysrhythmia Interpretation.** 1-hour credit. Study of electrophysiology of the heart and characteristics of cardiac dysrhythmias. 16 lecture hours. Prerequisites: RSPT 2317, 2353. Corequisites: RSPT 2325, 2255.

**RSPT 1201 – Introduction to Respiratory Care.** 2 credit hours. An introduction to the field of respiratory care. 16 lecture hours and 32 lab hours.

**RSPT 1227 - Applied Physics for Respiratory Care.** 2 credit hours. Review of the theoretical and practical applications of mathematics physics and chemistry with focus on the applicability and clinical utility of the modalities, techniques, procedures, equipment, and diagnostic tests utilized in respiratory care. 32 lecture hours. Prerequisite: RSPT 1201. Corequisites: RSPT 1340, 1410, and 1266.

**RSPT 1261 – Respiratory Care Clinical III.** 2 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 96 clinical hours. Prerequisites: RSPT 1361 and 1362. Corequisites: RSPT 2353 and 2317. Lab fee.

**RSPT 1266 – Respiratory Care Therapy Practicum I.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. 256 lab hours. Corequisites: RSPT 1227, 1340, and 1410. Lab fee.

**RSPT 1267 – Respiratory Care Therapy Practicum II.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. 256 lab hours. Corequisites: RSPT 2210, 1411, and 2314. Lab fee.

**RSPT 1340 – Advanced Cardiopulmonary Anatomy and Physiology.** 3 credit hours. Provides an advanced presentation of anatomy and physiology of the cardiovascular and pulmonary systems. 48 lecture hours. Corequisites: RSPT 2317, 1410, and 1266.

**RSPT 1410 – Respiratory Care Procedures I.** 4 credit hours. Essential knowledge of the equipment and techniques used in the treatment of cardiopulmonary disease. 48 lecture and 48 lab hours. Corequisites: RSPT 1227, 1340 and 1266. Lab fee.

**RSPT 1411 – Respiratory Care Procedures II.** 4 credit hours. Develops essential knowledge and skills of airway care and mechanical ventilation. 48 lecture and 48 lab hours. Prerequisites: RSPT 1227, 1340, 1410, and 1266. Corequisites: RSPT 2210, 2314, and 1267. Lab fee.

**RSPT 2210 – Cardiopulmonary Disease.** 2 credit hours. Etiology, pathogenesis, pathology, diagnosis, history, prognosis, manifestations, treatment, and detection of cardiopulmonary diseases. 32 lecture hours. Prerequisites: RSPT 1227, 1340, 1410, and 1266. Corequisites: RSPT 2314, 1411 and 1267.

**RSPT 2230 – Respiratory Care Examination Preparation.** 2 credit hours. A comprehensive review to optimize respiratory care credentialing exam success. 32 lecture hours. Prerequisites: RSPT 1137, 2255, 2267 and 2266, Corequisites RSPT 2231 and 2267.

**RSPT 2231 – Simulations in Respiratory Care.** 2 credit hours. Theory of clinical simulation examinations. Includes construction types, scoring and mechanics of taking the computer simulation examination. 32 lecture hours. Prerequisites: RSPT 1137, 2255, 2325 and 2266. Corequisites: RSPT 2230, and 2267.

**RSPT 2255 – Critical Care Monitoring.** 2 credit hours. Advanced monitoring techniques used to assess a patient in the critical care setting. 32 lecture hours. Prerequisites: RSPT 2353 and 1261. Corequisites: RSPT 2267 and 2325.

**RSPT 2266 – Respiratory Care Therapy Practicum IV.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. 256 lab hours. Prerequisites: RSPT 2353 and 1261. Corequisites: RSPT 2255 and 2325. Lab fee.

**RSPT 2267 – Respiratory Care Therapy Practicum V.** 2 credit hours. Practical, general workplace training supported by an individualized learning plan developed by the employer, the College, and the student. 256 lab hours. Prerequisites: RSPT 1137, 2255, 2325, and 2266. Corequisites: RSPT 2231 and 2230. Lab fee.

**RSPT 2314 – Mechanical Ventilation.** 3 credit hours. The study of mechanical ventilation with emphasis on ventilator classification, methods, principles, and operational characteristics. 48 lecture and 16 lab hours. Prerequisites: RSPT 2317, 1340, 1410, and 1266. Corequisites: RSPT 2210, 1411, and 1267. Lab fee.

**RSPT 2317 – Respiratory Care Pharmacology.** 3 credit hours. A study of drugs that affect cardiopulmonary systems. Emphasis on classification, route of administration, dosages/calculations, and physiological interactions. 48 lecture hours. Prerequisites RSPT 2210, 2314, 1411 and 1267. Corequisites: RSPT 2353 and 1261.

**RSPT 2325 – Cardiopulmonary Diagnostics.** 3 credit hours. A study of physical, radiological, hemodynamic, laboratory, nutritional, and cardiopulmonary diagnostic assessments. 32 lecture and 32 lab hours. Prerequisites: RSPT 2317, 2353, and 1261. Corequisites: RSPT 1137, 2255, and 2266. Lab fee.

**RSPT 2353 – Neonatal/Pediatric Cardiopulmonary Care.** 3 credit hours. A study of neonatal/pediatric cardiopulmonary care. 48 lecture hours. Prerequisites: RSPT 2210, 2314, 1411 and 1267. Corequisite: RSPT 2317 and 1261.

**RTVB 1321 – TV Field Production.** 4 credit hours. Pre-production, production, and post-production process involved in field television production. Topics include field camera setup and operation, field audio, television directing, and in-camera or basic continuity editing with an emphasis on underlying principles of video technology. 32 lecture and 32 lab hours.

**RTVB 1329 Script Writing.** 4 credit hours. Writing scripts for film and electronic media. Emphasizes format and style for commercials, public service announcements, promos, news, and documentaries. 48 lecture hours. Prerequisite: ENGL 1301.

**SOCI 1301 – Introduction to Sociology.** 3 credit hours. The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and

social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture hours.

**SOCI 1306 – Social Problems.** 3 credit hours. Application of sociological principles and theoretical perspectives to major social problems in contemporary society such as inequality, crime and violence, substance abuse, environmental issues, deviance, or family problems. Prerequisite: Meet TSI college readiness standards for reading and writing. 48 lecture hours.

**SOCI 2301 – Marriage and the Family.** 3 credit hours. Sociological and theoretical analysis of the structures and functions of the family, the varied cultural patterns of the American family, and the relationships that exist among the individuals within the family, as well as the relationships that exist between the family and other institutions in society. 48 lecture hours.

**SOCW 2361 – Introduction to Social Work.** – 3 credit hours. An overview of the history and development of social work as a profession. The course is designed to foster a philosophical, historical, and critical understanding of the social work profession, including social work values, ethics, and areas of practice utilized under a Generalist Intervention Model. (SOCW 2361 is included in the Social Work Field of Study.)

**SOCW 2362 - Social Welfare: Legislation, Program, and Services.** 3 credit hours. This course offers a historical and contemporary examination of legislation and resulting programs, policies, and services in the context of the social welfare system in the United States. Special attention is given to the political, economic, environmental, and social conditions that prompted the development of legislation to meet the needs of vulnerable populations. Societal responses to legislation are also considered. Forty-eight lecture hours. SOCW 2362 is included in the Social Work Field of Study.

**SOCW 2389 - Academic Cooperative.** 3 credit hours. A supervised experiential learning course designed to integrate program study with introductory exposure to the field of social work. In conjunction with individual study and/or seminars, the student will set specific goals and objectives in the study of social work and/or social institutions. The academic cooperative is not a social work skills-based practice experience, but instead, an observational volunteer experience. Prerequisite: SOCW 2361, Introduction to Social Work. This course includes thirty-two lecture hours and forty-eight hours in a social service setting for a total of eighty contact hours. SOCW 2389 is included in the Social Work Field of Study.

**SPAN 1411 – Beginning Spanish I.** 4 credit hours. Basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level. 48 lecture and 32 lab hours. Lab fee.

**SPAN 1412 – Beginning Spanish II.** 4 credit hours. Continued development of basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level. Prerequisite: SPAN 1411. 48 lecture and 32 lab hours. Lab fee.

**SPAN 2311 –Intermediate Spanish I.** 3 credit hours. The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Prerequisites: SPAN 1411 and 1412 or 2 years of Spanish from an accredited high school. 48 lecture hours.

**SPAN 2312 – Intermediate Spanish II.** 3 credit hours. The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Prerequisite: SPAN 2311 or equivalent. 48 lecture hours.

**SPCH 1315 – Public Speaking.** 3 credit hours. Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations. 48 lecture hours.

**SPCH 1318 – Interpersonal Communication.** 3 credit hours. Application of communication theory to interpersonal relationship development, maintenance, and termination in relationship contexts including friendships, romantic partners, families, and relationships with co-workers and supervisors. 48 lecture hours.

**SPCH 1321 – Business and Professional Communication.** 3 credit hours. Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams and technologically mediated formats. 48 lecture hours.

**SRGT 1260 – Clinical-Surgical Technology/ Technologist.** 2 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Ninety-six clinical hours. Prerequisite: SRGT 1405. Corequisites: SRGT 1409.

**SRGT 1360 – Clinical-Surgical Technology/ Technologist.** 3 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Two hundred and fifty-six clinical hours. Prerequisites: SRGT 1260 and SRGT 1409. Corequisites: SRGT 1541 and SRGT 1542.

**SRGT 1405 – Introduction to Surgical Technology.** 4 credit hours. Orientation to surgical technology theory, surgical pharmacology and anesthesia, technological sciences, and patient care concepts. Forty-eight classroom and 48 laboratory hours. Prerequisites: BIOL 2401, BIOL 2402, HITT 1305, STSU 0X00, ENGL 1301, MATH 1314 or 1332, PSYC 2301 or 2314, RNSG 1208, and creative arts core. Optional corequisite: BIOL 2420. Lab fee.

**SRGT 1409 – Fundamentals of Perioperative Concepts and Techniques.** 4 credit hours. In-depth coverage of perioperative concepts such as aseptic principles and practices, infectious processes, wound healing,

and creation and maintenance of the sterile field. Sixty-four classroom hours Prerequisite: SRGT 1405. Co-requisites: SRGT 1260

**SRGT 1460 – Clinical-Surgical Technology/ Technologist.** 4 credit hours.. The clinical professional provides direct supervision Direct supervision is provided by the clinical professional. One hundred and ninety-two clinical hours. Prerequisites: SRGT 1542 and SRGT 1360. Corequisites: SRGT 2130.

**SRGT 1541 – Surgical Procedures I.** 5 credit hours. Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the general, OB/GYN, genitourinary, otorhinolaryngology, and orthopedic surgical specialties incorporating instruments, equipment, and supplies required for safe patient care. Sixty-four classroom and 48 laboratory hours (total 112 hours). Prerequisites: SRGT 1409 and SRGT 1260. Corequisite: SRGT 1360. Lab fee.

**SRGT 1542 – Surgical Procedures II.** 5 credit hours. Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the cardiothoracic, peripheral vascular, plastic/reconstructive, ophthalmology, oral/maxillofacial, and neurological surgical specialties incorporating instruments, equipment, and supplies required for safe patient care. Sixty-four classroom and 48 laboratory hours (total 112 hours). Prerequisite: SRGT 1541. Corequisites: SRGT 1360. Lab fee.

**SRGT 2130 – Professional Readiness.** 1 credit hours Overview of professional readiness for employment, attaining certification, and maintaining certification status. A capstone experience. Sixteen contact hours. Prerequisites: SRGT 1542 and SRGT 1360. Corequisites: SRGT 1460 and SRGT 2360.

**SRGT 2360 – Clinical-Surgical Technology/Technologist.** 3 credit hours. The clinical professional provides direct supervision Direct supervision is provided by the clinical professional. Two hundred and eighty-eight clinical hours. Prerequisite: SRGT 1460. Corequisite: SRGT 2130.

**STSU 0300 – Student Success.** Institutional credit. Psychology of learning and success. Examines factors that underlie learning, success, and personal development in higher education. Topics covered include information processing, memory, strategic learning, self-regulation, goal setting, motivation, educational and career planning, and learning styles. Techniques of study such as time management, listening and note taking, text marking, library and research skills, preparing for examinations, and utilizing learning resources are covered. Includes courses in college orientation and developments of students' academic skills that apply to all disciplines. It is a course designed to introduce critical thinking concepts and to provide opportunities for the student to acquire learning strategies for academic success. This course will cluster students into teaching modules according to their TSI requirement deficiencies in all three sections of TSI Assessment (reading, writing and math). Also, can be relevant for survival skills course. 32 lecture and 16 lab hours. Lab fee.

**TECA 1303 – Families, School, and Community.** 3 credit hours. A study of the child, family, community, and schools, including parent education and involvement, family and community lifestyles, child abuse, and current family life issues. Course content must be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth through age eight. Requires students to participate in field

experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. The course includes 32 hours of field experiences and 32 lecture hours each week. 2 lab field experience hours must be conducted weekly to equal 32 hours for the semester. Lab fee.

**TECA 1311 – Educating Young Children.** 3 credit hours. An introduction to the education of the young child, including developmentally appropriate practices and programs, theoretical and historical perspectives, ethical and professional responsibilities, and current issues. Course content must be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth through age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. The course includes 32 field experiences and 32 lecture hours each week. 2 lab field experience hours must be conducted weekly to equal 32 hours for the semester. Lab fee.

**TECA 1318 – Wellness of the Young Child.** 3 credit hours. A study of the factors that impact the well-being of the young child including healthy behavior, food, nutrition, fitness, and safety practices. Focuses on local and national standards and legal implications of relevant policies and regulations. Course content must be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth to age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. The course includes 32 field experiences and 32 lecture hours. 2 lab field experience hours per week must be conducted weekly to equal 32 hours for the semester. Lab fee.

**TECA 1354 – Child Growth & Development.** 3 credit hours. A study of the physical, emotional, social, language, and cognitive factors impacting growth and development of children through adolescence. 48 lecture hours.

**TECM 1301 – Industrial Mathematics.** 3 credit hours. Math skills applicable to industrial occupations. Includes fraction and decimal manipulation, measurement, percentage, and problem-solving techniques for equations and ratio/proportion applications. 48 lecture hours.

**VNSG 1138 – Mental Illness.** 1-hour credit. Study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process. 16 lecture hours.

**VNSG 1219 – Professional Development.** 2 credit hours. Study of the importance of professional growth. Topics include the role of licensed vocational nurse in the multi-disciplinary health care team, professional organizations, and continuing education. 32 lecture hours. Prerequisites: VNSG 1226, 1304, 1361, 1330, 1331, 1362, 1405, 1423, and 1429. Corequisites: VNSG 1238, 1334, 1432, and 1363. Specialty exam fees.

**VNSG 1226 – Gerontology.** 2 credit hours. Overview of the normal physical, psychosocial, and cultural aspects of the aging process. Addresses common disease processes of aging. Exploration of perceptions toward care of the older adult. 32 lecture hours. Prerequisites: RNSG 1208. Corequisites: VNSG 1304, 1405, 1423, and 1361.

**VNSG 1230 – Maternal-Neonatal Nursing.** 2 credit hours. A study of the biological, psychological, and sociological concepts applicable to basic needs of the family including childbearing and neonatal care. Utilization of the nursing process in the assessment and management of the childbearing family. Topics include physiological changes related to pregnancy, fetal development, and nursing care of the family during labor and delivery and the puerperium. 32 lecture hours. Lab and specialty exam fees.

**VNSG 1234 – Pediatrics.** 2 credit hours. Study of the care of the pediatric patient and family during health and disease. Emphasis on growth and developmental needs utilizing the nursing process. 32 lecture hours.

**VNSG 1238 – Mental Illness.** 2 credit hours. Study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process and clinical judgment. 32 lecture hours. Prerequisites: VNSG 1226, 1304, 1330, 1331, 1361, 1362, 1405, 1423, and 1429. Corequisites: VNSG 1219, 1334, 1432, and 1363. Specialty exam fees.

**VNSG 1304 – Foundations of Nursing.** 3 credit hours. Introduction to the nursing profession including history, standards of practice, legal and ethical issues, and role of the vocational nurse. Topics include mental health, therapeutic communication, cultural and spiritual diversity, patient preference, nursing process using clinical judgement model, and holistic awareness. 48 lecture hours. Corequisites: VNSG 1226, 1361, 1405, 1423, and 1304. Prerequisites: RNSG 1208. Specialty exam fees.

**VNSG 1330 – Maternal/Newborn Nursing.** 3 credit hours. A study of the biological, psychological, and sociological concepts applicable to basic needs of the family including childbearing and neonatal care. Utilization of the nursing process and clinical judgment model in the assessment and management of the childbearing family. Topics include physiological changes related to pregnancy, fetal development, and nursing care of the family during labor and delivery and the puerperium. 48 lecture hours. Prerequisites: VNSG 1226, 1304, 1361, 1405 and 1423. Corequisites: VNSG 1133, 1136, 1331, 1362, and 1429. Specialty exam fees.

**VNSG 1331 – Pharmacology.** 3 credit hours. Fundamentals of medications and their diagnostic, therapeutic and curative effects. Includes nursing interventions utilizing the nursing process and clinical judgment model. 48 lecture hours. Prerequisites: VNSG 1238, 1304, 1361, 1405, and 1423. Corequisites: VNSG 1330, 1331, 1362, and 1429. Specialty exam fees.

**VNSG 1334 – Pediatric Nursing.** 3 credit hours. Study of the care of the pediatric patient and family during health and disease. Emphasis on growth and development needs utilizing the nursing process and clinical judgment model. 48 lecture hours. Prerequisites: VNSG 1331, 1429, 1330, and 1362. Corequisites: VNSG 1219, 1238, 1432, and 1363. Specialty exam fees.

**VNSG 1360 – Clinical Nursing.** 3 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Placement in summer session, following first year nursing curriculum – Lufkin campus only. 288 clinical hours. Prerequisites: RNSG 1205, 1215, 1309, 1262, 1301, 1341, 1363 and current CPR card. Corequisite: VNSG 1570.

**VNSG 1361 – Clinical Nursing.** 3 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 256 clinical hours. Prerequisite: A current CPR card. Corequisites: VNSG 1226, 1304, 1304, 1226, and 1423. Lab fee.

**VNSG 1362 – Clinical Nursing.** 3 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Placement in second semester. 256 clinical hours. Prerequisites: VNSG 1304, 1405, 1423, 1361 and a current CPR card. Corequisites: VNSG 1331, 1429, and 1330. Lab fee.

**VNSG 1363 – Clinical Nursing.** 3 credit hours. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Placement in third semester. 256 clinical hours. Prerequisites: VNSG 1331, 1330, 1429, and 1362. Corequisites: VNSG 1219, 1238, 1334, and 1432. Lab fee.

**VNSG 1423 – Basic Nursing Skills.** 4 credit hours. Mastery of basic nursing skills and competencies for a variety of health care settings using the nursing process and clinical judgment model as the foundation for all nursing interventions. 80 lecture hours. Prerequisites: RNSG 1208. Corequisites: VNSG 1304, 1361, and 1405.

**VNSG 1429 – Medical-Surgical Nursing I.** 4 credit hours. Application of the nursing process and clinical judgment model to the care of the adult patient experiencing medical-surgical conditions along the health-illness continuum in a variety of health care settings. 64 lecture hours. Prerequisites: VNSG 1226, 1304, 1423, 1361, and 1405. Corequisites: VNSG 1330, 1331, and 1362.

**VNSG 1432 – Medical-Surgical Nursing II.** 4 credit hours. Continuation of Medical-Surgical Nursing I with application of the nursing process and clinical judgment model to the care of the adult patient experiencing medical-surgical conditions along the health-illness continuum in a variety of health care settings. 64 lecture hours. Prerequisites: VNSG 1226, 1330, 1331, 1362, and 1429. Corequisites: VNSG 1219, 1238, 1304, 1361, 1405, 1432, and 1363. Specialty exam fees.

**WLDG 1313 – Introduction to Blueprint Reading for Welders.** 3 credit hours. A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes. Includes systems of measurement and industry standards, also includes interpretation of plans and drawings used by industry to facilitate field application and production. Define terms and abbreviations; interpret views, lines, dimensions, detail drawings and welding symbols; identify structural shapes; demonstrate the proper use of measuring devices; calculate dimensions; and develop bill of materials. 48 lecture hours.

**WLDG 1337 – Introduction to Welding Metallurgy.** 3 credit hours. A study of ferrous and non-ferrous metals from the ore to the finished product. Emphasis is on metal alloys, heat-treating, hard surfacing, welding techniques, forging, foundry processes, and mechanical properties of metals including hardness, machineability, and ductility. The student will describe technical terms used in the various phases of metallurgy, from early history to classification of steel; will discuss ferrous and non-ferrous metals and how they are processed and used in industry; and describe mechanical and physical properties, surface treatments, and heat treatments of metals. 48 lecture hours. Lab fee.

**WLDG 1391 – Special Topics in Welder/Welding Technologist.** 3 credit hours. Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. The student outcomes/objectives are determined by local occupational need and business and industry trends. Prerequisite: Work Keys test



sections for Applied Math Level 4 and Reading for Information Level 4. Must have completed 32 credit hours of welding. 48 lecture hours.

**WLDG 1428 – Intro to Shielded Metal Arc Welding (SMAW).** 4 credit hours. An introduction to shielded metal arc welding (SMAW) process. Emphasis is on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions. The student will select electrodes and amperage settings for various thicknesses of materials and welding positions; define principles of arc welding; and interpret electrode classifications. The student will perform SMAW operations in various positions using selected electrodes and different joint designs. 32 lecture and 64 lab hours. Lab fee.

**WLDG 1435 – Intro to Pipe Welding.** 4 credit hours. An introduction to welding of pipe using the shielded metal arc welding process, including electrode selection, equipment setup, and safe shop practices. Emphasis is on weld positions 1G and 2G using various electrodes. The student will describe equipment and required pipe preparation and perform 1G and 2G welds using various electrodes. 32 lecture and 64 lab hours. Pre or corequisite: WLDG 2443. Lab fee.

**WLDG 1457 – Intermediate Shielded Metal Arc Welding (SMAW).** 4 credit hours. A study of the production of various fillets and groove welds. Preparation of specimens for testing in all test positions. The student will identify principles of arc welding; describe arc welding operations of fillet and groove joints; explain heat treatments of low alloy steels; and explain weld size and profiles. The student will prepare test plates; perform fillet welds in the overhead position; perform air carbon arc weld removal; perform bevel groove welds with backing plates in various positions; and demonstrate use of tools and equipment. 32 lecture and 64 lab hours. Pre or corequisite: WLDG 1428. Lab fee.

**WLDG 2288 – Internship Welder/Welding Technology.** 2 credit hours. A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. As outlined in the learning plan, apply the theory, concepts, and skills involved in specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social and legal systems associated with the occupation and the business/industry; and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. 128 hours of practical experience. Prerequisite: Student must have completed 36 hours of welding courses.

**WLDG 2355 – Advanced Welding Metallurgy.** 3 credit hours. A study of metallurgy as it applies to welding, including structure, identification, and testing of metals; temperature changes and their effect on welded metals; properties of metals, and factors affecting weldability of ferrous and non-ferrous metals. The student will identify the structure and properties of metals and describe changes that occur when welds are made. The student will perform various metallurgy tests of ferrous and non-ferrous metals. Prerequisite: Meet TSI college readiness standards for reading, writing, and mathematics. 48 lecture hours.

**WLDG 2406 – Intermediate Pipe Welding.** 4 credit hours. A comprehensive course on the welding of pipe using the shielded metal arc welding (SMAW) process. Position of welds will be 1G, 2G, 5G, and 6G using various electrodes. Topics covered include electrode selection, equipment setup, and safe shop practices. The student will describe equipment and required pipe preparation. The student will perform 1G, 2G, 5

G, and 6G welds using various electrodes. 32 lecture and 64 lab hours. Pre or corequisite: WLDG 1435. Lab fee.

**WLDG 2413 – Welding Using Multiple Processes.** 4 credit hours. Instruction using layout tools and blueprint reading with demonstration and guided practices with some of the following welding processes: oxy-fuel gas cutting and welding, gas metal arc welding, flux-cored arc welding, gas tungsten arc welding, or any other approved welding process. The student will identify proper safety equipment and tools and identify and select the proper welding process for a given application. The student will demonstrate the ability to analyze situations and make decisions using skills as taught concerning safety and electrode selections; and select the most economic and practical welding process for the given tasks. 32 lecture and 64 lab hours. Pre or corequisite: WLDG 2453. Lab fee.

**WLDG 2432 – Welding Automation.** 4 credit hours. Overview of automated welding and cutting applications. Special emphasis on safe use and operation of equipment. Set up, program, operate, and troubleshoot various automated welding and/or cutting equipment. 32 lecture and 64 lab hours. Prerequisite: 16 hours of welding courses. Lab fee.

**WLDG 2443 – Advanced Shielded Metal Arc Welding (SMAW).** 4 credit hours. Advanced topics based on accepted welding codes. Training provided with various electrodes in shielded metal arc welding processes with open V-groove joints in all positions. The student will describe effects of preheating and post weld heating; explain precautions used when welding various metals and alloys; distinguish between qualification and certification procedures; and discuss problems of welding discontinuities. The student will perform open groove welds with mild steel and low alloy electrodes. 32 lecture and 64 lab hours. Pre or corequisite: WLDG 1457. Lab fee.

**WLDG 2451 – Advanced Gas Tungsten Arc Welding (GTAW).** 4 credit hours. Advanced topics in GTAW welding, including welding in various positions and directions. Demonstrate proficiency in various welding positions; describe safety rules and equipment used; and describe the effects of welding parameters in GTAW; weld various joint designs; diagnose welding problems; and perform visual inspection. Prerequisite: Meet TSI college readiness standards for reading, writing, and mathematics. Pre- or corequisite: WLDG 2453. 32 lecture and 64 lab hours. Lab fee.

**WLDG 2453 – Advanced Pipe Welding.** 4 credit hours. Advanced topics involving welding of pipe using the shielded metal arc welding process. Topics include electrode selection, equipment setup, and safe shop practices. Emphasis is on weld positions 5G and 6G using various electrodes. The student will describe equipment and required pipe preparation and perform 5G and 6G welds using various electrodes. 32 lecture and 64 lab hours. Prerequisite: Meet TSI college readiness standards for reading, writing, and mathematics. Pre or corequisite: WLDG 2406. Lab fee.

## COLLEGE PERSONNEL

### Executive Council

#### **President**

Dr. Michael J. Simon (2015)  
Ed.D., Texas Tech University  
M.A., Northern Michigan University  
B.S., Central Michigan University

#### **Vice President of Academic Affairs**

Dr. Timothy Ditoro (2011)  
Ed.D., Texas A&M University  
M.A., The University of Texas at Austin  
M.A., University of Alabama  
B.A., David Lipscomb University

#### **Vice President of Business Affairs/ Internal Counsel**

Mr. Chris Sullivan (2016)  
M.B.A., The Ohio State University  
J.D., University of Akron School of Law  
B.S., Miami University

#### **Associate Vice President of Student Services**

Ms. Krista Brown (2019)  
M.S., Liberty University  
B.S., University of Texas at Dallas

#### **Executive Director of Student Affairs and Community Relations**

Ms. Dana Smithhart (2016)  
B.S., Stephen F. Austin State University  
A.S., Angelina College

#### **Executive Director of Institutional Effectiveness**

Ms. Joy Row (2022)  
M.B.A., The University of Texas at San Antonio  
B.S., Southwestern Adventist University

#### **Executive Director of Advancement**

Ms. Leigh Ann Pyle  
B.A., Stephen F. Austin University

#### **Special Assistant to the President**

Ms. Dee Ellis (2023)  
M.Ed., North American University  
B.S., Arkansas State University

## Academic Administrators

### Assistant Vice President of Academic Affairs

Dr. Esther Campbell  
Ph.D., Liberty University  
M.B.A., Amberton University  
B.S., Stephen F. Austin State University

### Dean of Arts and Education

Ms. Diana Throckmorton (1992)  
M.A., Stephen F. Austin State University  
B.A., Stephen F. Austin State University

### Dean of eLearning

Dr. Andrea Barrett (2013)  
Ph.D., Texas A & M University  
B.S., Sam Houston State University

### Dean of Health Careers

Dr. Winifred Ferguson-Adams (1998)  
D.N.P., Abilene Christian University  
M.S.N., Grand Canyon University  
M.Ed., Stephen F. Austin State University  
B.S.N., Texas Christian University

### Dean of Science and Mathematics

Dr. Catherine Aguilar-Morgan (2021)  
Ph.D., Walden University  
M.S., New Mexico Institute of Mining and  
Technology  
B.S., New Mexico Institute of Mining and  
Technology

## Non-Teaching Professional Staff

Senior Director, Business Office/ Controller	Darin Murphy
Senior Director, Financial Aid and Admissions	Glenn Goforth
Senior Director, Information Technology	Jennifer Ragsdale
Police Chief/Senior Director of Public Safety Training	Doug Conn
Police Lieutenant	Jack Stephenson
Director, Athletics	J.J. Montgomery
Director, Grants and Sponsored Programs	Janice Huffman
Director, Learning Resources	Thomas McKinney
Director, Nonprofit Leadership Center	Heather Kartye
Director, Small Business Development Center	Dianne Amerine
Director, Student Affairs	Daisy Brumley
Manager, Athletic Operations	Brett Reeves
Manager, Communications	Ashley Monsante
Manager, Creative Brand	Jessica Deel
Manager, Disability Services & Tutoring	Renee McCain
Manager, Nonprofit Leadership Center	Heather Kartye
Manager, Student Billing/Bursar	Phylcia Spikes
Manager, Student Life	Gerardo Valladares
Manager, Testing Center	David Avant
Registrar	Sandra Cox
Assistant Registrar and Director of Dual Credit	Jennifer Baldauf

## Instructors

### School of Arts and Education

#### Arts/Graphic Arts

Mr. Reginald Reynolds, Lead Instructor (2004)  
M.F.A., Stephen F. Austin State University  
B.S., Lamar University

#### Development English

Mr. Gary Stallard, Instructor (2006)  
B.A., Stephen F. Austin State University

#### English

Ms. Shelby Armstrong, Department Chair,  
Instructor (2009)  
M.A., Texas Tech University  
B.A., Texas Tech University

Mr. Aaron Grimes, Instructor (2016)

M.A., Stephen F. Austin State University  
B.A., Stephen F. Austin State University  
A.A.S., Angelina College

Mr. Jeffrey Parish, Instructor (2017)  
M.A., Wayland Baptist University  
B.A., Sam Houston State University

Ms. Petronila "Patty" Rogers, Lead Instructor  
(2005)  
M.A., Stephen F. Austin State University  
B.A., Stephen F. Austin State University  
A.S., Angelina College

Mr. Kevin Stagg, Instructor (2014)  
M.B.A., Westwood College

M.A., Stephen F. Austin State University  
B.A., Louisiana College

Ms. Lori Wijntjes, Instructor (2009)  
M.A., Stephen F. Austin State University  
B.A., Stephen F. Austin State University

Ms. Renee Williams, Instructor (2016)  
M.A., Stephen F. Austin State University  
B.A., Stephen F. Austin State University

### **Education**

Ms. Rachel Hunt, Lead Instructor (2011)  
M.Ed., Stephen F. Austin State University  
B.S., Stephen F. Austin State University

### **Student Success**

Dr. Edward “Carl” Carey, Lead Instructor (2016)  
Ph.D., University of North Carolina at Chapel Hill  
M.S., Texas A&M University  
B.S., Texas A&M University

Mr. Randy McKelvey, Instructor & Assistant  
Women’s Basketball Coach (2023)  
M.A., Southern New Hampshire University  
B.S., Stephen F. Austin University

### **Government**

Ms. Alicia Andreatta, Instructor (2016)  
M.A., Baylor University  
B.A., McMurry University

Ms. Olivia Wilson, Instructor (2012)  
M.P.A., Stephen F. Austin State University  
B.S., Sam Houston State University

### **Government & History**

Mr. Larry “Duane” Choate, Lead Instructor  
(2019)  
M.A., Sam Houston State University  
B.B.A., Texas A&M University

Mr. Michael Smith, Lead Instructor (2011)  
M.Ed., Stephen F. Austin State University

M.A., Stephen F. Austin State University  
B.A., Stephen F. Austin State University

Mr. Kevin Wooten, Instructor (2007/2013)  
M.A., Sam Houston State University  
B.S., Sam Houston State University

### **Music**

Mr. Paul Berler, Director of Bands &  
Instructor of Music (2022)  
M.M., New England Conservatory of Music  
B.M., University of New Hampshire

### **Physical Education**

Mr. Eric Colbert, Instructor & Assistant Men’s  
Basketball Coach (2023)  
B.A., Humboldt State University

Mr. Byron Coleman, Instructor & Head  
Women’s Basketball Coach (2005)  
M.A., New Mexico Highlands University  
B.A., Stephen F. Austin State University

Ms. Brette Kohring, Instructor & Head Softball  
Coach (2021)  
M.B.A., Lamar University  
B.A., Texas A&M University

Mr. Howard Krohn, Instructor & Head Athletic  
Trainer (2017)  
P.E.S., National Academy of Sports  
Management  
M.S., California University of Pennsylvania  
B.S., Grand Canyon University

Mr. Jeff Livin, Lead Instructor &  
Head Baseball Coach (1995)  
M.A., Southwest Texas State University  
B.B.A., Southwestern University

Ms. Sandy Lopez, Instructor & Assistant Softball  
Coach (2023)  
B.S., Texas Wesleyan University

Mr. Martin Melchor, Instructor/Mens's Head Soccer Coach (2023)  
M.S., Texas A&M University-Commerce  
B.S., Coastal Carolina University

Mr. Sergio Gardea  
Soccer Coach (2024)  
B.S.,

Mr. Randy McKelvey, Instructor & Assistant Women's Basketball Coach (2023)  
M.A., Southern New Hampshire University  
B.S., Stephen F. Austin University

Mr. Jeremy "JJ" Montgomery, Director of Athletics and head Men's Basketball Coach (2021)  
M.Ed., North American University  
B.A., Arkansas State University  
A.A., Angelina College

Mr. Dylan Murphy, Instructor & Assistant Baseball Coach (2023)  
B.S., Houston Baptist University

### **Psychology**

Ms. Benetha Jackson, Lead Instructor (2000)  
M.A., Stephen F. Austin State University  
B.A., Stephen F. Austin State University  
A.A., Angelina College

Mr. Ronnie Naramore, Instructor (2002)  
M.A., Stephen F. Austin State University  
B.S., Stephen F. Austin State University

### **Sociology**

Kristi Clark, Instructor (2000)  
M.S.W., Stephen F. Austin State University  
B.S.W., Stephen F. Austin State University

Sandra Johnson, Lead Instructor (2007)  
M.S.W., Stephen F. Austin State University  
B.S.W., Stephen F. Austin State University

### **Spanish**

Dr. Annette Gillum, Lead Instructor (2014)  
Ph.D., University of Houston  
M.A., Middlebury College  
B.A., Stephen F. Austin State University

### **Speech**

Alexandria "Alex" Ranc, Social and Behavioral Sciences Department Chair & Instructor (2016)  
M.A., Stephen F. Austin State University  
B.S., Stephen F. Austin State University

Amy Morrison, Instructor (2010)  
M.S., University of Texas at Tyler  
B.S., Texas College at Tyler

### **Visual & Performing Arts**

Beckie A. Compton, Department Chair (1998)  
M.M., Stephen F. Austin State University  
B.M., Stephen F. Austin State University

Le'Anne Alexander, Lead Instructor (2013)  
M.F.A., Stephen F. Austin University  
M.A., Stephen F. Austin University  
B.A., University of Mississippi

Kary Raine, Lead Instructor (2004)  
M.A., Stephen F. Austin State University  
B.F.A., Stephen F. Austin State University

## School of Business & Technology

### **Automotive Technology**

Mr. Mark Yarnall Jr., Lead Instructor (2015)  
A.A.S., Angelina College  
Allentown Business School  
A.S.E. Master Certified Automotive Technician  
Certified Emissions Repair Technician

### **Business**

Mr. Charles Oliver, Department Chair (2019)  
M.B.A., Embry Riddle Aeronautical University  
B.B.A., Embry Riddle Aeronautical University  
B.S., Coastal Bend College

### **Child & Family Development**

Ms. Vicky Milstead, Lead Instructor (2000)  
M.Ed., Stephen F. Austin State University  
B.S., Stephen F. Austin State University

### **Computer Information Systems**

Ms. Mary Ann Larsen, Lead Instructor (2023)  
M.S., University of Houston – Clear Lake  
B.S., University of Houston – Clear Lake  
A.A., College of the Mainland

Mr. Cristian Turbeville, Lead Instructor (2024)  
B.S., Stephen F. Austin State University

### **Criminal Justice**

Ms. Monica Newberg, Lead Instructor (2023)  
M.S., Lamar University  
B.A.A.S., Stephen F. Austin State University  
Master Peace Officer License  
Law Enforcement Academy, Angelina College

Lt. Jack Stephenson (2020)  
B.S., Columbia Southern University  
Master Peace Officer License  
Law Enforcement Academy, Angelina College

### **Diesel Technology**

Mr. James Mills, Lead Instructor (2011)  
M.S., Stephen F. Austin State University  
B.A.A.S., Stephen F. Austin State University  
A.A.S., Angelina College

### **Drafting & Design Technology**

Mr. Dallas McClelland, Lead Instructor (2004)  
B.A.A.S., Stephen F. Austin State University  
A.A.S., Angelina College

### **Economics and Accounting**

Ms. Laura Reynolds, Lead instructor (2021)  
M.B.A., West Texas A&M University  
B.B.S., Hardin-Simmons University

### **Electromechanical Technology**

Mr. Jeremy Sanches, Instructor (2014)  
A.A.S., Angelina College

### **Electronics Technology**

Mr. David Turbeville, Lead Instructor (2004)  
B.S., Texas A&I University  
A.A.S., Texas Southmost College

### **Heating, Ventilation, Air Conditioning and Refrigeration**

Mr. Stephen Hammonds, Instructor (2016)  
B.S., Stephen F. Austin State University

### **Machine Tool Technology**

Mr. Donald Randall, Lead Instructor (2019)  
A.A.S., Angelina College

### **Paralegal**

Mr. Dawn Shapaka, Lead Instructor (2013)  
J.D., Texas Tech University  
B.S., University of Texas at Austin



**Welding Technology:**

Mr. Troy Dale Edwards, Jr., Lead Instructor (2009)  
 M.S., University of Texas at Tyler  
 B.A.A.S., Stephen F. Austin State University  
 A.A.S., Angelina College

Mr. Jesse Cole, Jr., Instructor (2009)  
 A.A.S., Angelina College

**School of Health Careers****Emergency Medical Services**

Ms. Janice Hartsfield, Instructor (2002)  
 M.Ed., Lamar University  
 B.A.A.S., Lamar University  
 A.A.S., Angelina College

Mr. Charles Eric Freeman (2021)  
 B. S. Texas A & M University  
 AAS, Angelina College

**Nursing**

Dr. Sandra Brannan, Program Director (2021)  
 Ph.D., Texas Women’s University – Houston  
 M.S.N., UTHSC – Houston  
 B.S.N., University of Texas Medical Branch  
 Diploma, Northwest Texas Hospital School of Nursing

Dr. Susan Adams, Instructor (2021)  
 D.N.P., Chamberlain University  
 M.S.N., Western Governor’s University  
 B.S.N., Stephen F. Austin State University  
 A.A.S., Kilgore College

Dr. Charlet Blades, Instructor (2006)  
 Ed.D., American College of Education  
 M.S.N., Excelsior College  
 B.S.N., Excelsior College  
 A.D.N., Excelsior College  
 V.N., Houston County School of Vocational Nursing

Ms. Alison Dillon, Instructor (2023)  
 B. S. N., Stephen F. Austin State University

Ms. Kelley Durr, Instructor (2021)  
 M.S.N., University of Texas at Arlington  
 B.S.N., Stephen F. Austin State University

Ms. Antonia Fleming, Instructor (2017)  
 M.S., Chamberlain University  
 B.S.N., Stephen F. Austin State University  
 A.S., Angelina College

Ms. Mary Hastings, Instructor (2020)  
 A.A.S. Nursing, Angelina College  
 V. N. Angelina College

Ms. Alicia Hayden, Instructor (2022)  
 M. S. N., Western Governor’s University  
 B. S. N., St. Louis University  
 A. D. N., Excelsior University

Ms. Vergie Hines, Instructor (2016)  
 M.S.N., Grand Canyon University  
 B.S.N., Grand Canyon University  
 A.D.N., Excelsior University  
 V.N., Angelina College

Ms. Patricia Hooks (2021)  
 B. S. N., Western Governor’s University  
 A.D. N., Angelina College  
 V. N., San Jacinto College

Ms. Kathlyn Jackson, Instructor (2016)  
 M.S.N., Grand Canyon University  
 B.S.N., Stephen F. Austin State University  
 A.A.S., San Jacinto College

Dr. Nadia Martindale, Instructor (2022)

D. N. P., Capella University  
M. S. N., Texas Christian University  
B. S. N., Texas Christian University  
A. D. N., Angelina College

Dr. Nancy McClurg, Instructor (2007)  
D. N. P., University of Texas at Tyler  
M.S.N., University of Texas at Tyler  
B.S.N., Stephen F. Austin State University  
A.D.N., Angelina College  
V.N., Angelina College

Ms. Anna McReynolds, Retention  
Specialist/Nursing Skills  
B.S.N., Stephen F. Austin State University  
A.A.S., Angelina College

Ms. Peggy Mortensen, Instructor (2017)  
M.B.A. James Madison University  
M.S.N, University of Pennsylvania  
B.S.N, Misericordia University

Ms. Amber Murphy, Instructor (2010)  
M.S.N., University of Texas at Tyler  
B.S.N., Stephen F. Austin State University

Ms. Henrietta Sells, Instructor (2017)  
M.S.N., University of Phoenix  
B.S.N., University of Phoenix  
A.D.N., Angelina College

Dr. Bobbie Williams, Instructor (2012)  
Ph. D., University of Phoenix  
M.S.N., University of Phoenix  
M.B.A., Letourneau University  
B.B.M., Letourneau University  
A.D.N., Tyler Junior College

### **Pharmacy Technology**

Ms. Ashley Nair, Instructor (2021)  
A.A.S., Angelina College

Ms. Elaine Young, Instructor/Program Director  
(2002)

M.Ed., Stephen F. Austin State University  
B.S., Stephen F. Austin State University

### **Radiologic Technology**

Ms. Angie W. Hill, Program Director/Instructor  
(1991)

M.Ed., Stephen F. Austin State University  
B.S.R.S., Midwestern State University  
A.A.S., Angelina College

Ms. Autumn Conner, Instructor (2002)  
M.S.R.S., Midwestern State University  
B.S.R.S., Midwestern State University  
A.A.S., Angelina College

Mr. Steven Donahoe, Instructor (2004)  
B.A.A.S., Stephen F. Austin State University  
A.A.S., Angelina College

Ms. Bridgett Geist, Instructor (2006)  
M.S.R.S., Midwestern State University  
B.A., Texas A & M University  
A.A.S., Angelina College

Mr. John Lee, Instructor (2004)  
M.S.R.S, Midwestern State University  
B.S.R.S., Midwestern State University  
A.A.S., Angelina College

### **Respiratory Care**

Ms. Mary Jennifer Jones, Instructor/ Program  
Director (2023)  
B. S., Western Governor's University  
A. A. S., Angelina College

Ms. Mistie Hargis, Instructor/Director of Clinical  
Education (2023)  
A. A. S., Angelina College

### **Sonography**

Ms. Casey Davis, Instructor/Program Director  
(2008)  
M.Ed., Lamar University  
B.S.R.S., Midwestern State University  
A.A.S., Angelina College

Ms. Amanda Koerth, Instructor (2019)  
A.A.S., Angelina College  
B.A.A.S., Texas A&M at Commerce

### **Surgical Technology**

Ms. Stefanie Vaughn, Instructor/ Program  
Director (2016)

B.A.S., Wayland University  
A.A.S., Tyler Junior College

Ms. Donta Davis, Instructor (2019)  
A.A.S., Trinity Valley College  
Certificate in Surgical Technology, Angelina  
College

## **School of Science & Mathematics**

### **Biology**

Dr. Kathleen McClinton, Lead Instructor (2019)  
Ph.D., University of South Alabama  
M.S.T., University of West Florida  
B.S., Eastern New Mexico University  
A.A., Eastern New Mexico University

Dr. Carrie Geisbauer, Instructor (2021)  
Ph.D., University of California Los Angeles  
M.S., University of California Los Angeles  
B.S., University of Southern California

Ms. Tina Lane, Instructor (2023)  
M.S., Texas A&M University  
B.S., Texas A&M University

Mr. Jason Lankford, Instructor (2003)  
M.S., Stephen F. Austin State University  
B.S., Stephen F. Austin State University

Dr. Paula Nellessen, Instructor (2017)  
Ph.D., University of Idaho  
M.S., University of Idaho  
B.S., University of Southwestern Louisiana

Ms. Ashley Wahlberg, Instructor (2022)  
M.S., West Texas A&M University  
B.S., West Texas A&M University

Ms. Julie Mays, Instructor (2002)  
M.S., Stephen F. Austin State University  
B.S., Stephen F. Austin State University

### **Physics**

### **Chemistry**

Ms. Sarah Glaesemann, Instructor (2024)  
M.S., University of Texas at Tyler  
B.S., Stephen F. Austin State University

### **Mathematics**

Mr. George R. Reed, Lead Instructor (1999)  
M.Ed., Stephen F. Austin State University  
B.S., Stephen F. Austin State University

Mr. Austin Clark, Instructor (2018)  
M.S., Texas A&M University  
B.S., Stephen F. Austin State University

Ms. Mary Craft, Instructor (2019)  
M.S., Stephen F. Austin State University  
B.S., Stephen F. Austin State University

Mr. Richard Geist, Instructor (2011)  
M.S., Stephen F. Austin State University  
B.S., Stephen F. Austin State University

Dr. Chad Huckaby (2023)  
Ph.D., Texas A&M University  
M.S., Stephen F. Austin State University  
B.S., Stephen F. Austin State University

Ms. Kathleen Hughes, Instructor (2019)  
M.S., Texas A&M University  
B.S., Texas A&M University

## **Workforce and Continuing Education**

### **Health Occupations**

Ms. Kim Meshell, Manager Medical Assistant, Phlebotomy, and EKG Technical Programs

Ms. Shanda Keely, Manager of Nurse Aide, Medication Aide, and Patient Care Technicians Programs

### **Public Safety Training**

Lt. Jack Stephenson Public Safety Training Manager, New License

Sgt. Ashley Jowell  
In-Service Training Specialist

Lt. Jason Pope, Public Safety Training Specialist and Fire Academy Coordinator

## References

Southern Association of Colleges and Schools Commission on Colleges. (2020 September). Originally published 2010 June. *Distance Education and Correspondence Courses Policy Statement*.

<https://sacscoc.org/app/uploads/2019/07/DistanceCorrespondenceEducation.pdf>

Title IX of the Education Amendments Act of 1972 is a federal law that states:

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. 20 U.S.C. §1681(a)

<https://www.iacet.org/standards/ansi-iacet-2018-1-standard-for-continuing-education-and-training/continuing-education-unit-ceu/about-the-ceu/>