

**PARAMUS ECHS**

**Pineywoods Community Academy**

**Credit Courses with Angelina College**

**2017-2021**

**Course Description Guide**



## ENGLISH LANGUAGE ARTS

03220300

**ENGLISH III  
ENGLISH – ENGL 1301 – COMPOSITION I.**

Three hours credit- ANGELINA COLLEGE.

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.

Three lecture and one lab hour each week. Lab fee.

**Prerequisite: TSIA Writing  
.5 CREDIT HIGH SCHOOL**

03220300

**ENGLISH III  
ENGLISH – ENGL 1302 – COMPOSITION II.**

Three hours credit- ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite: ENGL 1301. TSIA WRITING  
.5 CREDIT HIGH SCHOOL**

03220400

**ENGLISH IV  
ENGLISH – ENGL 2322 – BRITISH LITERATURE I.**

Three hours credit- ANGELINA COLLEGE.

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, Language Arts and Education Division 311 linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Three lecture hours each week.

**Prerequisite: ENGL 1301. (Confirm with the  
selected four-year institution to determine if both  
ENGL 1301 and ENGL 1302 are required for transfer.)  
.5 CREDIT HIGH SCHOOL**

03220400

**ENGLISH IV  
ENGLISH – ENGL 2323 – BRITISH LITERATURE II.**

Three hours credit ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite: ENGL 1301. (Confirm with the selected  
four-year institution to determine if both ENGL 1301  
and ENGL 1302 are required for transfer.)  
.5 CREDIT HIGH SCHOOL**

03220400

**ENGLISH IV  
ENGLISH – ENGL 2327 – AMERICAN LITERATURE I(TO 1865).**

Three hours Credit- ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite: ENGL 1301. (Confirm with the selected  
four-year institution to determine if both ENGL 1301  
and ENGL 1302 are required for transfer.)  
.5 CREDIT HIGH SCHOOL**

- 03220400 ENGLISH IV  
ENGLISH – ENGL 2328 – AMERICAN LITERATURE II (FROM 1865).**  
Three hours credit- ANGELINA COLLEGE.  
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.  
Three lecture hours each week.
- Prerequisite: ENGL 1301. (Confirm with the selected four-year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.)  
.5 CREDIT HIGH SCHOOL**
- 03220400 ENGLISH IV  
ENGLISH – ENGL 2332 – WORLD LITERATURE I.**  
Three hours credit- ANGELINA COLLEGE.  
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.  
Three lecture hours each week.
- Prerequisite: ENGL 1301. (Confirm with the selected four-year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.)  
.5 CREDIT HIGH SCHOOL**
- 03220400 ENGLISH IV  
ENGLISH – ENGL 2333 – WORLD LITERATURE II.**  
Three hours credit- ANGELINA COLLEGE.  
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.  
Three lecture hours each week.
- Prerequisite: ENGL 1301. (Confirm with the selected four-year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.)  
.5 CREDIT HIGH SCHOOL**
- 03220400 ENGLISH IV  
ENGLISH – ENGL 2307 – CREATIVE WRITING I.**  
Three hours credit- ANGELINA COLLEGE.  
Practical experience in the techniques of imaginative writing. May include fiction, nonfiction, poetry, screenwriting, or drama. Writing of short stories, poetry, short drama and feature articles.  
Three lecture hours each week.
- Prerequisite: approval of the Associate Dean of Instruction.  
.5 CREDIT HIGH SCHOOL**
- 03220400 ENGLISH IV  
ENGLISH – ENGL 2341 – FORMS OF LITERATURE.**  
Three hours credit- ANGELINA COLLEGE.  
The study of one or more literary genres including, but not limited to, poetry, fiction, drama, and film. The study Language Arts and Education Division 312 of one or more literary genres including, but not limited to, poetry, fiction, drama, and film. Topics may vary by semester.  
Three lecture hours each week.
- Prerequisite: ENGL 1301. (Confirm with the selected four year institution to determine if both ENGL 1301 and ENGL 1302 are required for transfer.)  
.5 CREDIT HIGH SCHOOL**

**03220400 ENGLISH IV - ENGLISH – ENGL 2311 -Technical and Business Writing**  
 Three hours credit- ANGELINA COLLEGE.  
 Intensive study of and practice in 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, e-mail messages, letters, and description of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.  
 Three lecture hours each week. Lab fee

**Prerequisite: ENGL 1301  
 .5 CREDIT HIGH SCHOOL**

### Mathematics

**03100600 3<sup>rd</sup> MATHEMATICS ALGEBRA II (equivalent)**  
**03102540 4<sup>th</sup> MATHEMATICS COLLEGE ALGEBRA**  
**MATHEMATICS – MATH 1314 – COLLEGE ALGEBRA.**  
 Three hours credit- ANGELINA COLLEGE.  
 In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and Science and Mathematics Division 340 systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.  
 Three lecture hours each week.

**Prerequisite: Meet TSIA college readiness standard for Mathematics or equivalent  
 1 CREDIT HIGH SCHOOL**

**Mathematics – MATH 1324 - CTE  
 Mathematics for Business & Social Sciences.**

Three hours credit – ANGELINA COLLEGE  
 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 TSIA college-readiness standard for Mathematics or equivalent.  
 1 CREDIT HIGH SCHOOL**

**03102400 4<sup>th</sup> MATHEMATICS  
 MATHEMATICS – MATH 1332 -Contemporary Mathematics  
 (Math for Liberal Arts Majors)**  
 Three hours credit – ANGELINA COLLEGE.  
 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.  
 Three lecture hours each week.

**Prerequisite: Meet TSIA college readiness standard for Mathematics or equivalent.  
 1 CREDIT HIGH SCHOOL**

**13016900 4<sup>th</sup> MATHEMATICS – CTE  
 MATHEMATICS – MATH 1342 – ELEMENTARY STATISTICAL METHODS.**  
**Three hours credit- ANGELINA COLLEGE.**  
 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.  
 Three lecture hours each week.

**Prerequisite: Meet TSIA college readiness standard for Mathematics or equivalent  
 1 CREDIT HIGH SCHOOL**

- 03102500**      **4<sup>th</sup>MATHEMATICS**  
**MATHEMATICS – MATH 1350 – MATHEMATICS FOR TEACHERS I.**  
Three hours credit- ANGELINA COLLEGE.  
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.  
Three lecture hours each week.  
**Prerequisite: MATH 1314**  
**1 CREDIT HIGH SCHOOL**
- 03102501**      **4<sup>th</sup>MATHEMATICS**  
**MATHEMATICS – MATH 1351 – Mathematics for Teachers II.**  
Three hours credit- ANGELINA COLLEGE.  
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.  
Three lecture hours each week.  
**Prerequisite: MATH 1350 and MATH 1314**  
**1 CREDIT HIGH SCHOOL**
- 03102400**      **4<sup>th</sup>MATHEMATICS**  
**BUSINESS – POFT 1321 – BUSINESS MATH.**  
Three hours credit – ANGELINA COLLEGE.  
Fundamentals of business mathematics including analytical and critical thinking skills. Three lecture hours each week.  
**1 CREDIT HIGH SCHOOL**
- 12701410**      **4<sup>th</sup>MATHEMATICS**  
**TECHNICAL MATH – TECM 1301 – INDUSTRIAL MATHEMATICS.**  
Three hours credit – ANGELINA COLLEGE.  
Specific mathematical calculations required by business, industry, and health occupations. Solve technical math problems using addition, subtraction, multiplication, and division; convert between whole numbers, fractions, mixed numbers, and decimals; perform calculations involving percents, ratios, and proportions; and convert numbers to different units of measurement.  
Three lecture hours each week.  
**1 CREDIT HIGH SCHOOL**
- 13020970**      **4<sup>th</sup>MATHEMATICS**  
**NURSING – RNSG 1208 – DOSAGE CALCULATIONS FOR NURSING.**  
Two hours credit – ANGELINA COLLEGE.  
Read, interpret, and solve dosage calculation problems.  
Thirty-two classroom hours. 16 lab hours.  
Three lecture hours each week.  
**Prerequisite: TSI complete or MATH 0320.**  
**1 CREDIT HIGH SCHOOL**

## SCIENCE

- 13037200**      **ADVANCED SCIENCE**  
**BIOLOGY – BIOL 1406 – BIOLOGY FOR SCIENCE MAJORS I (LECTURE + LAB).**  
Four hours credit- ANGELINA COLLEGE.  
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.  
Three lecture and three lab hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**

- 13037200**      **ADVANCED SCIENCE**  
**BIOLOGY – BIOL 1407 – BIOLOGY FOR SCIENCE MAJORS II (LECTURE + LAB).**  
Four hours credit- ANGELINA COLLEGE.  
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.  
Three lecture and three lab hours each week. Lab fee.  
**Recommended prerequisite: BIOL 1406.**  
**.5 CREDIT HIGH SCHOOL**
- 13037200**      **ADVANCED SCIENCE**  
**BIOLOGY – BIOL 1408 – BIOLOGY FOR NON-SCIENCE MAJORS I (LECTURE + LAB).**  
Four hours credit- ANGELINA COLLEGE.  
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.  
Three lecture and two lab hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- 13037200**      **ADVANCED SCIENCE**  
**BIOLOGY – BIOL 1409 – BIOLOGY FOR NON-SCIENCE MAJORS II (LECTURE + LAB).**  
Four hours credit – ANGELINA COLLEGE.  
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.  
Three lecture and two lab hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- 13020600**      **ADVANCED SCIENCE – CTE**  
**BIOLOGY – BIOL 2401 – ANATOMY AND PHYSIOLOGY I (LECTURE + LAB).**  
Four hours credit – ANGELINA COLLEGE.  
Anatomy and Physiology I 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.  
Three lecture and three lab hours each week. Lab fee.  
**Prerequisite: TSIA Complete.**  
**.5 CREDIT HIGH SCHOOL**
- 13020600**      **ADVANCED SCIENCE – CTE**  
**BIOLOGY – BIOL 2402 – ANATOMY AND PHYSIOLOGY II (LECTURE + LAB).**  
Four hours credit – ANGELINA COLLEGE.  
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.  
Three lecture and three lab hours each week. Lab fee.  
**Prerequisite: TSIA Complete; Grade of C or better in BIOL 2401.**  
**.5 CREDIT HIGH SCHOOL**

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- 13020600**      **ADVANCED SCIENCE - CTE**  
**BIOLOGY – BIOL 2404 – GENERAL ANATOMY AND PHYSIOLOGY (LECTURE + LAB).**  
Four hours credit – ANGELINA COLLEGE.  
Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, Science and Mathematics Division 336 respiratory, and circulatory systems.  
Three lecture and three lab hours each week. Lab fee.  
**Prerequisite: TSIA complete.**  
**1 CREDIT HIGH SCHOOL**
- 13037100**  
**13037210**      **ADVANCED SCIENCE**  
**BIOLOGY – BIOL 1411 – GENERAL BOTANY (LECTURE + LAB).**  
Four hours credit – ANGELINA COLLEGE.  
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 Science and Mathematics Division 335 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.  
Three lecture and three lab hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- 13037100**  
**13037210**      **ADVANCED SCIENCE**  
**BIOLOGY – BIOL 1413 – GENERAL ZOOLOGY (LECTURE + LAB).**  
Four hours credit –ANGELINA COLLEGE.  
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.  
Three lecture and three lab hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- 03020000**      **ADVANCED SCIENCE**  
**BIOLOGY – BIOL 2306 – ENVIRONMENTAL BIOLOGY LECTURE.**  
Three hours credit – ANGELINA COLLEGE (LECTURE)  
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.  
Three lecture hours each week.
- 03020000**      **BIOLOGY – BIOL 2106 – ENVIRONMENTAL BIOLOGY LABORATORY.**  
One hour credit – ANGELINA COLLEGE (LAB)  
Laboratory experiences to supplement BIOL 2306.  
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.  
Three lab hours each week. Lab fee.  
**1 CREDIT HIGH SCHOOL**

- 13020700**      **ADVANCED SCIENCE - CTE**  
**BIOLOGY – BIOL 2420 – MICROBIOLOGY FOR NON-SCIENCE MAJORS (LECTURE + LAB).**  
 Four hours credit – ANGELINA COLLEGE.  
 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.  
 Three lecture and three lab hours each week. Lab fee.  
**Prerequisite: TSIA Complete.**  
**1 CREDIT HIGH SCHOOL**
- 13020700**      **ADVANCED SCIENCE - CTE**  
**BIOLOGY – BIOL 2421 – MICROBIOLOGY FOR SCIENCE MAJORS (LECTURE + LAB).**  
 Four hours credit – ANGELINA COLLEGE.  
 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 1**  
**1 CREDIT HIGH SCHOOL**
- 03060200**      **ADVANCED SCIENCE**  
**GEOLOGY – GEOL 1403 – PHYSICAL GEOLOGY (LECTURE + LAB).**  
 Four hours credit – ANGELINA COLLEGE.  
 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.  
 Three lecture and three lab hours each week. Lab fee.  
**1 CREDIT HIGH SCHOOL**
- 03040000**  
**13037200**  
**13037210**  
**13037220**      **ADVANCED SCIENCE**  
**CHEMISTRY – CHEM 1305 – INTRODUCTORY CHEMISTRY I (Lecture).**  
 Three hours credit – ANGELINA COLLEGE.  
 Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. THIS COURSE IS DESIGNED FOR NON-SCIENCE MAJORS.  
 Three lecture hours each week. Lab fee.  
**CHEMISTRY – CHEM 1105 – INTRODUCTORY CHEMISTRY I (Lab) .**  
 One hour credit – ANGELINA COLLEGE.  
 Laboratory experiences to supplement CHEM 1305.  
 Three lab hours each week. Lab fee.  
**Prerequisite or co-requisite: CHEM 1305.**  
**.5 CREDIT HIGH SCHOOL**
- 03040000**      **ADVANCED SCIENCE**  
**CHEMISTRY – CHEM 1307 – INTRODUCTORY CHEMISTRY II (LECTURE).**  
 Three hours credit – ANGELINA COLLEGE.  
 Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. THIS COURSE IS DESIGNED FOR NON-SCIENCE MAJORS.  
 Three lecture hours each week. Lab fee.  
**CHEMISTRY – CHEM 1107 – INTRODUCTORY CHEMISTRY LAB II.**  
 One hour credit – ANGELINA COLLEGE.  
 Laboratory experiences to supplement CHEM 1307.  
 Three lab hours each week. Lab fee.  
**Prerequisite or co-requisite: CHEM 1307.**  
**.5 CREDIT HIGH SCHOOL**



0304000

**ADVANCED SCIENCE**

**CHEMISTRY – CHEM 1411 – GENERAL CHEMISTRY I (LECTURE + LAB).**

Four hours credit – ANGELINA COLLEGE.

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.

Three lecture and three lab hours each week. Lab fee.

**Prerequisite: MATH 1314 or equivalent academic preparation. Co-requisite: enrollment with approval.  
.5 CREDIT HIGH SCHOOL**

03040000

**ADVANCED SCIENCE**

**CHEMISTRY – CHEM 1412 – GENERAL CHEMISTRY II (LECTURE + LAB).**

Four hours credit – ANGELINA COLLEGE.

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.

Three lecture and three lab hours each week. Lab Fee.

**Prerequisite: CHEM 1411.  
.5 CREDIT HIGH SCHOOL**

03050000  
13037200

**ADVANCED SCIENCE**

**PHYSICS – PHYS 1305 – ELEMENTARY PHYSICS (LECTURE).**

Three hours credit – ANGELINA COLLEGE.

Conceptual level survey of topics in physics intended for liberal arts and other non-science majors. May or may not include a laboratory.

Three lecture hours each week.

**PHYSICS – PHYS 1105 – ELEMENTARY PHYSICS LABORATORY.**

One hour credit – ANGELINA COLLEGE.

Laboratory experiences to supplement PHYS 1305.

Two lab hours each week. Lab fee.

**Co-requisite: PHYS 1305.  
1 CREDIT HIGH SCHOOL**

03050000  
13037200

**ADVANCED SCIENCE**

**PHYSICS – PHYS 1401 – COLLEGE PHYSICS I (LECTURE + LAB).**

Four hours credit – ANGELINA COLLEGE.

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. Lab fee.

**Prerequisite: MATH 1314 College Algebra and Math 1316 Plane Trigonometry OR MATH 2312 Pre-Calculus Math (MATH 2412 Pre-Calculus may substitute for 2312).**

**.5 CREDIT HIGH SCHOOL**

03050000  
13037200

**ADVANCED SCIENCE**

**PHYSICS – PHYS 1402 – COLLEGE PHYSICS II (LECTURE + LAB).**

Four hours credit – ANGELINA COLLEGE.

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. Lab fee.

**Prerequisite: PHYS 1301 College Physics I (lecture) or  
PHYS 1401 College Physics I (lecture + lab).  
.5 CREDIT HIGH SCHOOL**

03050000  
13037200

**ADVANCED SCIENCE**

**PHYSICS – PHYS 2425 – UNIVERSITY PHYSICS I (LECTURE + LAB).**

Four hours credit – ANGELINA COLLEGE.

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.

Three lecture and two lab hours each week. Lab fee.

**Prerequisite: MATH 2413 Calculus I.  
.5 CREDIT HIGH SCHOOL**

03050000  
13037200

**ADVANCED SCIENCE**

**PHYSICS – PHYS 2426 – UNIVERSITY PHYSICS II (LECTURE + LAB).**

Four hours credit – ANGELINA COLLEGE.

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. Three lecture and three lab hours each week. Lab fee.

**Prerequisite: PHYS 2425 University Physics I, MATH  
2414 Calculus II.  
.5 CREDIT HIGH SCHOOL**

**ELECTIVE**

13020300

**MEDICAL TERMINOLOGY – HITT 1305 – CTE - MEDICAL TERMINOLOGY.**

Three hours credit – ANGELINA COLLEGE.

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.

Forty-eight classroom hours.

**1 CREDIT HIGH SCHOOL**

## SOCIAL STUDIES

- 03320100**     **GEOGRAPHY – GEOG 1303 – WORLD REGIONAL GEOGRAPHY.**  
Three hours credit – ANGELINA COLLEGE.  
Study of major world regions with emphasis on prevailing conditions and developments, including emerging conditions and trends, and the awareness of diversity of ideas and practices to be found in those regions. Course content may include one or more regions. Three lecture hours each week.  
**1 CREDIT HIGH SCHOOL**
- 03340400**     **HISTORY – HIST 2311 – WESTERN CIVILIZATION I.**  
Three hours credit – ANGELINA COLLEGE.  
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. Three lecture hours each week.  
**.5 CREDIT HIGH SCHOOL**
- 03340400**     **HISTORY – HIST 2312 – WESTERN CIVILIZATION II.**  
Three hours credit – ANGELINA COLLEGE.  
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. Three lecture hours each week.  
**.5 CREDIT HIGH SCHOOL**
- 03380001**     **HISTORY – HIST 1301 – UNITED STATES HISTORY I.**  
Three hours credit – ANGELINA COLLEGE. 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 Social/Behavioral Sciences and Business Division 152 rights, technological change, economic change, immigration and migration, and creation of the federal government. Required of all students seeking an Associate in Arts or Science degree or who plan to transfer to a four-year school. Three lecture hours each week.  
**.5 CREDIT HIGH SCHOOL**
- 03380001**     **HISTORY – HIST 1302 – UNITED STATES HISTORY II.**  
Three hours credit – ANGELINA COLLEGE.  
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 U.S. foreign policy. Required of all students seeking an Associate in Arts or Science degree or who plan to transfer to a four-year school. Three lecture hours each week.  
**.5 CREDIT HIGH SCHOOL**
- 03310300**     **ECONOMICS – ECON 2301 – PRINCIPLES OF MACROECONOMICS.**  
Three hours credit – ANGELINA COLLEGE.  
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. Three lecture hours each week.  
**.5 CREDIT HIGH SCHOOL**

- 03310300**      **ECONOMICS – ECON 2302 – PRINCIPLES OF MICROECONOMICS.**  
Three hours credit – ANGELINA COLLEGE.  
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. Three lecture hours each week.  
**.5 CREDIT HIGH SCHOOL**
- 03330100**      **GOVERNMENT – GOVT 2305 – FEDERAL GOVERNMENT**  
(FEDERAL CONSTITUTION AND TOPICS).  
Three hours credit – ANGELINA COLLEGE.  
Origin and development of the U.S. 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.  
Three lecture hour each week.  
**.5 CREDIT HIGH SCHOOL**
- 03380002**      **GOVERNMENT – GOVT 2306 – TEXAS GOVERNMENT**  
(TEXAS CONSTITUTION AND TOPICS).  
Three hours credit – ANGELINA COLLEGE.  
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.  
Three lecture hour each week  
**.5 CREDIT HIGH SCHOOL**

### **LANGUAGES OTHER THAN ENGLISH**

**SPAN 1411 may count as Spanish I or II. SPAN 1412 may count as Spanish II or III. Students who choose to take Spanish I at the high school must take SPAN 1412 and SPAN 2311 to qualify for Distinguished Scholar.**

- 03440100**  
**03440200**      **SPANISH – SPAN 1411 – BEGINNING SPANISH I.**  
Four hours credit – ANGELINA COLLEGE.  
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.  
Three lecture and two lab hours each week. Lab fee  
**1 CREDIT HIGH SCHOOL**
- 03440200**  
**03440300**      **SPANISH – SPAN 1412 – BEGINNING SPANISH II.**  
Four hours credit – ANGELINA COLLEGE.  
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.  
Three lecture and two lab hours each week. Lab fee  
**Prerequisite: SPAN 1411.**  
**1 CREDIT HIGH SCHOOL**
- 03440300**  
**03440400**      **SPANISH – SPAN 2311 –INTERMEDIATE SPANISH I.**  
Three hours credit – ANGELINA COLLEGE.  
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.  
Three lecture hours each week.  
**Prerequisites: SPAN 1411 & 1412 or two years of Spanish in an accredited high school.**  
**1 CREDIT HIGH SCHOOL**

**03440400**  
**03440500**

**SPANISH – SPAN 2312 – INTERMEDIATE SPANISH II.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite: SPAN 2311 or equivalent.**

**1 CREDIT HIGH SCHOOL**

**VISUAL AND PERFORMING ARTS/FINE ARTS**

**03150500**  
**03150600**

**MUSIC – MUEN 1123-1124 – CONCERT BAND.**

**MUSIC – MUEN 2123-2124 – CONCERT BAND.**

One hour credit – ANGELINA COLLEGE.

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.

Three laboratory hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**03152100**  
**03152200**

**MUSIC – MUEN 1141-1142 – CHORALE.**

**MUSIC – MUEN 2141-2142 – CHORALE.**

One hour credit – ANGELINA COLLEGE.

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.

Three lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**03152100**  
**03152200**

**MUSIC – MUEN 1151-1152 – A.C. SINGERS.**

**MUSIC – MUEN 2151-2152 – A.C. SINGERS.**

One hour credit – ANGELINA COLLEGE.

An ensemble course designed for students interested in popular, swing and jazz styles. Open to students by audition.

Three lab hours each week. Lab fee.

**Concurrent Enrollment: PHED 2104 and MUEN 1151.**

**.5 CREDIT HIGH SCHOOL**

**03155600**

**MUSIC – MUSI 1306 – MUSIC APPRECIATION.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**03151300**

**MUSIC – MUSI 1310 – AMERICAN JAZZ MUSIC.**

Three hours credit – ANGELINA COLLEGE.

A general survey of Jazz as an American art form including topics on origin, a discussion of styles, and the major components comprising the genre.

FOR THE GENERAL STUDENT AS A FINE ARTS ELECTIVE.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**03500110**     **ART – ARTS 1301 – ART APPRECIATION.**  
Three hours credit – ANGELINA COLLEGE.  
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.  
Three lecture hours each week

**.5 CREDIT HIGH SCHOOL**

**03250700**     **DRAMA – DRAM 1310 – INTRODUCTION TO THEATRE.**  
Three hours credit – ANGELINA COLLEGE.  
Survey of theater including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Participation in productions may be required.  
Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

## **HEALTH AND PHYSICAL EDUCATION/FOUNDATIONS OF PERSONAL FITNESS**

**PES00052**  
**PES00053**  
**PES00054**

**PHYSICAL EDUCATION – PHED 1101 – EXERCISE AND CONDITIONING I.**

One hour credit – ANGELINA COLLEGE.  
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.  
Three class hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**PES00052**

**PHYSICAL EDUCATION – PHED 1104 – DANCE I.**

One hour credit – ANGELINA COLLEGE.  
Instruction and participation in physical and recreational activities. Participation and instruction in Zumba, Hip-Hop, Folk, Modern, Ballet, Tap and/or other dance activities.  
PHYSICAL FITNESS AND SPORT MAJORS MAY HAVE THE OPTION OF EIGHT CREDITS.  
Three class hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**PES00052**

**PHYSICAL EDUCATION – PHED 1105 – WESTERN DANCE.**

One hour credit – ANGELINA COLLEGE.  
Instruction and participation in physical and recreational activities. 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.  
PHYSICAL FITNESS AND SPORT MAJORS MAY HAVE THE OPTION OF EIGHT CREDITS.  
Three class hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**PES00052**

**PHYSICAL EDUCATION – PHED 1108 – WEIGHT TRAINING & CONDITIONING I.**

One hour credit – ANGELINA COLLEGE.  
Instruction and participation in physical and recreational activities. Weight training is concerned with the development of flexibility and increased physical capacity. Stress is on muscle strength, endurance, power and speed of movement.  
PHYSICAL FITNESS AND SPORT MAJORS MAY HAVE THE OPTION OF EIGHT CREDITS.  
Three class hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**PES00054**

**PHYSICAL EDUCATION – PHED 1110 – AEROBICS I.**

One hour credit – ANGELINA COLLEGE.  
Instruction and participation in physical and recreational activities. 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.  
PHYSICAL FITNESS AND SPORT MAJORS MAY HAVE THE OPTION OF EIGHT CREDITS.  
Three class hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

- PES00052      PHYSICAL EDUCATION – PHED 1112 – INTRODUCTION TO STRENGTH & CARDIOVASCULAR FITNESS.**  
One hour credit – ANGELINA COLLEGE.  
Instruction and participation in physical and recreational activities. 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.  
PHYSICAL FITNESS AND SPORT MAJORS MAY HAVE THE OPTION OF EIGHT CREDITS.  
Three class hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- PES00052      PHYSICAL EDUCATION – PHED 1114 – LOW-IMPACT MUSCLE CONDITIONING.**  
One hour credit – ANGELINA COLLEGE.  
Instruction and participation in physical and recreational activities. 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.  
PHYSICAL FITNESS AND SPORT MAJORS MAY HAVE THE OPTION OF EIGHT CREDITS.  
Three class hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- PES00052      PHYSICAL EDUCATION – PHED 1119 – VOLLEYBALL I.**  
One hour credit – ANGELINA COLLEGE.  
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.  
Three class hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- PES00052      PHYSICAL EDUCATION – PHED 1120 – ROPES COURSE I.**  
One hour credit – ANGELINA COLLEGE.  
Instruction and participation in physical and recreational activities. Students will participate in a variety of experiential educational activities involving personal challenges. Activities will include group dynamics, low ropes elements, and high elements. Students will also learn the basics of belaying and other ropes course support roles.  
Three class hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- PES00053      PHYSICAL EDUCATION – PHED 1121 – OUTDOOR RECREATION I.**  
One hour credit – ANGELINA COLLEGE.  
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.  
Three class hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- PES00052      PHYSICAL EDUCATION – PHED 1123 – ARCHERY I.**  
One hour credit – ANGELINA COLLEGE.  
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. Three class hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- PES00052      PHYSICAL EDUCATION – PHED 2105 – BALLET I.**  
One hour credit – ANGELINA COLLEGE.  
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.  
Three class hours/week. Lab fee.  
**Prerequisite: successful completion of any freshman-level activity course (11xx).**  
**.5 CREDIT HIGH SCHOOL**

**PES00052**      **PHYSICAL EDUCATION – PHED 2112 – RACQUET SPORTS.**  
One hour credit – ANGELINA COLLEGE.  
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).  
Three class hours each week. Lab fee.

**Prerequisite: successful completion of any freshman-level activity course (11xx) except Racquetball I (PHED 1106) or Tennis I (PHED 1107).**  
**.5 CREDIT HIGH SCHOOL**

**PES00053**      **PHYSICAL EDUCATION – PHED 2121 – OUTDOOR RECREATION II.**  
One hour credit – ANGELINA COLLEGE.  
Instruction and participation in physical and recreational activities. 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, Language Arts and Education Division 319 geocaching, etc. PHYSICAL FITNESS AND SPORT MAJORS MAY HAVE THE OPTION OF EIGHT CREDITS.  
Three class hours each week. Lab fee.

**Prerequisite: successful completion of any freshman-level activity course (11xx).**  
**.5 CREDIT HIGH SCHOOL**

## SPEECH

**03240900**      **SPEECH – SPCH 1315 – PUBLIC SPEAKING.**  
Three hours credit – ANGELINA COLLEGE.  
This course includes research, composition, organization, analysis, and delivery of speeches for various purposes and occasions.  
Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**03241400**      **SPEECH – SPCH 1318 – INTERPERSONAL COMMUNICATION.**  
Three hours credit – ANGELINA COLLEGE.  
A course that deals with theory and practice of communication in life situations. Study of self-concept, perception, emotions, non-verbal communication, interpersonal relationships, and conflict. Activities are one-on-one and small group.  
Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**03241200**      **SPEECH – SPCH 1321 – BUSINESS AND PROFESSIONAL SPEAKING.**  
Three hours credit – ANGELINA COLLEGE.  
Theories and practices of speech communication as applied in business and professional situations.  
Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**



## PSYCHOLOGY

- 03270100 PSYCHOLOGY – PSYC 1300 – LEARNING FRAMEWORK.**  
Three hours credit – ANGELINA COLLEGE.  
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. The student may register for either EDUC or PSYC but may receive credit for only one of the two.  
Three lecture/lab hours. Lab Fee.  
**Prerequisite: TSI exempt or passing scores on all sections of the TSI.**  
**.5 CREDIT HIGH SCHOOL**
- 03350100 PSYCHOLOGY – PSYC 2301 – GENERAL PSYCHOLOGY.**  
Three hours credit – ANGELINA COLLEGE.  
Survey of major topics psychological topics, theories and approaches to scientific study of behavior and mental processes. Introduces the study of behavior and the factors that determine and affect behavior. A basic overview of the discipline known as psychology and a brief history of this field. Attention will be focused on such areas as: interaction of heredity, environment, and maturation; personality and mental health; psychopathology; sexuality; and aging and death.  
Three lecture hours each week.  
**.5 CREDIT HIGH SCHOOL**
- 03350100 PSYCHOLOGY – PSYC 2314 – LIFESPAN GROWTH AND DEVELOPMENT.**  
Three hours credit – ANGELINA COLLEGE.  
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.  
Three lecture hours each week.  
**.5 CREDIT HIGH SCHOOL**

## SOCIAL/BEHAVIORAL SCIENCES

- 03370100 SOCIOLOGY – SOCI 1301 – INTRODUCTION TO SOCIOLOGY.**  
Three hours credit – ANGELINA COLLEGE.  
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. Three lecture hours each week.  
**.5 CREDIT HIGH SCHOOL**

## COMPUTER INFORMATION/COMPUTER SCIENCE

- 13011300 COMPUTER INFORMATION SYSTEMS – POFI 1301 –CTE- COMPUTER APPLICATIONS I.**  
Three hours credit – ANGELINA COLLEGE.  
Overview of computer office applications including current terminology and technology. Introduction to computer hardware, software applications, and procedures. This course is designed to be repeated multiple times to improve student proficiency.  
Three lecture and one lab hour each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**

**13027200**      **COMPUTER SCIENCE – COSC 1301 – CTE - INTRODUCTION TO COMPUTING.**  
Three hours credit – ANGELINA COLLEGE.  
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..  
Three lecture hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**13027600**      **COMPUTER SCIENCE – COSC 1315 – CTE - INTRODUCTION TO COMPUTER PROGRAMMING.**  
Three hours credit – ANGELINA COLLEGE.  
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.  
Three lecture hours each week. Lab fee.

**Prerequisite: TSIA Complete.**

**.5 CREDIT HIGH SCHOOL**

## COMMUNICATION

**03230140**      **COMMUNICATION – COMM 1307 – INTRODUCTION TO MASS COMMUNICATION.**  
Three hours credit – ANGELINA COLLEGE.  
Survey of the mass media, including newspapers, radio, television, movies, magazines, books, advertising, etc.  
Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**03230800**      **COMMUNICATION – COMM 1318 – PHOTOGRAPHY I (JOURNALISM EMPHASIS).**  
Three hours credit – ANGELINA COLLEGE.  
Introduction to the basics of photography. Includes camera operation, techniques, knowledge of chemistry, and presentation skills. Emphasis on design, history, and contemporary trends as a means of developing an understanding of photographic aesthetics.  
CROSS-LISTED, WITH FINE ARTS EMPHASIS, AS ARTS 2356  
Three lecture and two lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**03230140**      **COMMUNICATION – COMM 2305 – EDITING AND LAYOUT.**  
Three hours credit – ANGELINA COLLEGE.  
An introduction to the desktop publishing of visual communications. Students will learn Fine Arts Division 292 Macintosh publishing technology in the areas of word processing, graphics, and page layout. The history of design along with the basic principles of design, typography, editing and layout will be taught. Students will produce various design projects on the Macintosh computers in the journalism lab.  
Three lecture/lab hours each week.

**Prerequisite: Basic keyboarding or typing skills.**

**.5 CREDIT HIGH SCHOOL**

**03230100**      **COMMUNICATION – COMM 2311 – MEDIA WRITING.**  
Three hours credit – ANGELINA COLLEGE.  
Fundamentals of writing for the mass media. Basic instruction in professional methods and techniques for gathering, processing, and delivering content. Emphasis is placed on development of news gathering and writing skills in a variety of news forms, including basic news stories, opinion writing, feature writing and editorials. A comprehensive study is made of editing for print media. The students will also be exposed to headline writing and writing cut-lines/captions for photographs as well as writing for broadcast and the Web.  
Three lecture hours and two per week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

## ENGINEERING

- 13036200 ENGINEERING – ENGR 1304 – CTE - ENGINEERING GRAPHICS I.**  
Three hours credit – ANGELINA COLLEGE..  
An introductory course including the use of instruments, computer graphics, geometrical construction, orthographic projections, auxiliaries, sections, dimensioning, axonometric projection, threads, and descriptive geometry applications.  
Two lecture and four lab hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- 13036200 ENGINEERING – ENGR 1201 – CTE - INTRODUCTION TO ENGINEERING.**  
Two hours credit – ANGELINA COLLEGE.  
An introduction to the engineering profession with emphasis on technical communication and team-based engineering design.  
Three lecture hours each week.  
**Prerequisite: MATH 1314 or equivalent academic preparation.**  
**.5 CREDIT HIGH SCHOOL**

## BUSINESS

- 13011200 BUSINESS – BUSI 2301 – CTE - BUSINESS LAW.**  
Three hours credit – ANGELINA COLLEGE.  
The course provides the student with foundational information about the U.S. 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 U.S. 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 Associate Dean of Instruction. Three lecture hours each week  
**.5 CREDIT HIGH SCHOOL**
- 13027600 COMPUTER INFORMATION SYSTEMS – ITSC 1301 – CTE – INTRODUCTION TO COMPUTERS.**  
Three hours credit – ANGELINA COLLEGE.  
Overview of computer information systems. Introduces computer hardware, software, procedures, and human resources.  
Three lecture and one lab hour each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- 13034400 REAL ESTATE – RELE 1201 – CTE - PRINCIPLES OF REAL ESTATE I.**  
Two hours credit – ANGELINA COLLEGE.  
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.  
Thirty-two contact hours.  
Required for TREC exam.  
**.5 CREDIT HIGH SCHOOL**
- 13016600 ACCOUNTING – ACCT 2301 – CTE - PRINCIPLES OF ACCOUNTING I.**  
Three hours credit – ANGELINA COLLEGE.  
This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. 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).  
Three lecture hours each week.  
**Prerequisites: Must be TSI complete for Math.**  
**.5 CREDIT HIGH SCHOOL**

## DIVISIONS

The Technology and Workforce Division, Business Division and Health Careers Division of Angelina College provides instruction and adequate pre-employment training for students preparing for positions in industry, health occupations, or in the field of business requiring high degrees of skill and technical knowledge. Specific credit hour requirements and course requirements vary among the various programs in each division.

### Technology and Workforce Division

AREAS OF CONCENTRATION  
Automotive Technology  
Electronics Technology  
Child & Family Development  
Fluid Power Technology  
Criminal Justice  
Human Services  
Diesel Technology  
Paralegal (Legal Assistant)  
Drafting and Design Technology  
Machine Tool Technology  
Electrical Maintenance  
Networking  
Electromechanical Technology  
Welding Technology

### AUTOMOTIVE TECHNOLOGY

**13039600**

**AUTOMOTIVE TECHNOLOGY – AUMT 1407 – CTE – AUTOMOTIVE ELECTRICAL SYSTEMS.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and six lab hours each week. Lab fee.

**Concurrent enrollment in AUMT 1410.  
.5 Credit High School**

**13039600**

**AUTOMOTIVE TECHNOLOGY – AUMT 1410 – CTE – AUTOMOTIVE BRAKE SYSTEMS.**

Four hours credit ANGELINA COLLEGE.

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.

Two lecture and six lab hours each week. Lab fee.

**Concurrent enrollment in AUMT 1407.  
.5 Credit High School**

**13039600**

**AUTOMOTIVE TECHNOLOGY – AUMT 1416 – CTE – SUSPENSION AND STEERING.**

Four hours credit ANGELINA COLLEGE.

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.

Two lecture and six lab hours each week. Lab fee.

**Prerequisite: AUMT 1407.  
.5 Credit High School**

- 13039600**      **AUTOMOTIVE TECHNOLOGY – AUMT 1419 – CTE– AUTOMOTIVE ENGINE REPAIR.**  
 Four hours credit ANGELINA COLLEGE.  
 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. Two lecture and six lab hours each week. Lab fee.  
**.5 CREDIT HIGH SCHOOL**
- 13039700**      **AUTOMOTIVE TECHNOLOGY – AUMT 1445 – CTE – AUTOMOTIVE CLIMATE CONTROL SYSTEMS.**  
 Four hours credit ANGELINA COLLEGE.  
 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. Two lecture and six lab hours each week. Lab fee.  
**Prerequisites: AUMT 1407.**  
**.5 CREDIT HIGH SCHOOL**
- 13039700**      **AUTOMOTIVE TECHNOLOGY – AUMT 2417 – ENGINE PERFORMANCE ANALYSIS I.**  
 Four hours credit ANGELINA COLLEGE.  
 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. Two lecture and six lab hours each week. Lab fee.  
**Prerequisite/corequisite: AUMT 1407.**  
**.5 CREDIT HIGH SCHOOL**
- 13039700**      **AUTOMOTIVE TECHNOLOGY – AUMT 2425 – CTE – AUTOMOTIVE AUTOMATIC TRANSMISSION AND TRANSAXLE.**  
 Four hours credit ANGELINA COLLEGE.  
 A study of the operation, hydraulic principles, and electronic controls of modern automatic transmissions and automatic transaxles. 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. Two lecture and six lab hours each week. Lab fee.  
**Prerequisite: AUMT 1407.**  
**.5 CREDIT HIGH SCHOOL**
- 13039700**      **AUTOMOTIVE TECHNOLOGY – AUMT 2434 – CTE – AUTOMOTIVE ENGINE PERFORMANCE ANALYSIS II.**  
 Four Credit hours ANGELINA COLLEGE.  
 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. Two lecture and six lab hours each week. Lab fee.  
**Prerequisite: AUMT 2417.**  
**.5 CREDIT HIGH SCHOOL**
- 13039710**      **AUTOMOTIVE TECHNOLOGY – AUMT 2480 –CTE – COOPERATIVE EDUCATION – AUTOMOTIVE TECHNOLOGY.**  
 Four hours credit ANGELINA COLLEGE.  
 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 320 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.  
.5 CREDIT HIGH SCHOOL**

## **CHILD AND FAMILY DEVELOPMENT**

### **CHILD & FAMILY DEVELOPMENT – CDEC 1359 – CTE – CHILDREN WITH SPECIAL NEEDS.**

Three hours credit ANGELINA COLLEGE.

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.

**.5 CREDIT HIGH SCHOOL**

**13024700**

### **CHILD & FAMILY DEVELOPMENT – CDEC 1413 – CTE - CURRICULUM RESOURCES FOR EARLY CHILDHOOD PROGRAMS.**

Four hours credit ANGELINA COLLEGE.

A study of the fundamentals of developmentally appropriate curriculum design and implementation in early care and education programs for children birth through age eight. Course includes 30 hours of field experiences.

Three lecture hours each week. Three field experience hours must be conducted weekly for ten assigned weeks. Lab fee.

**.5 CREDIT HIGH SCHOOL**

### **CHILD & FAMILY DEVELOPMENT – CDEC 1417 – CTE - CHILD DEVELOPMENT ASSOCIATE TRAINING I.**

Four hours credit ANGELINA COLLEGE.

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. Course includes 2 hours of lab.

Three lecture hours each week. 150 lab hours required for credentialing process. Lab fee. Technology and Workforce Division 251

**.5 CREDIT HIGH SCHOOL**

**13024800**

### **CHILD & FAMILY DEVELOPMENT – CDEC 1419 – CTE - CHILD GUIDANCE.**

Four hours credit ANGELINA COLLEGE.

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. Course includes 30 hours of field experiences.

Three lecture hours each week. Three field experience hours must be conducted weekly for ten assigned weeks. Lab fee.

**.5 CREDIT HIGH SCHOOL**

### **CHILD & FAMILY DEVELOPMENT – CDEC 1421 – CTE - THE INFANT & TODDLER.**

Four hours credit ANGELINA COLLEGE.

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. Course includes 30 hours of field experiences.

Three lecture hours each week. Three field experience hours must be conducted weekly for ten assigned weeks. Lab fee.

**.5 CREDIT HIGH SCHOOL**

### **CHILD & FAMILY DEVELOPMENT – CDEC 1458 – CTE - CREATIVE ARTS FOR EARLY CHILDHOOD.**

Four hours credit ANGELINA COLLEGE.

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. Course includes 30 hours of field experiences.

Three lecture hours each week. Three field experience hours must be conducted weekly for ten assigned weeks. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**CHILD & FAMILY DEVELOPMENT – CDEC 2422 – CTE - CHILD DEVELOPMENT ASSOCIATE TRAINING II.**

Four hours credit ANGELINA COLLEGE.

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. Course includes 2 hours of lab.

Three lecture hours each week. 150 lab hours required for credentialing process. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**CHILD & FAMILY DEVELOPMENT – CDEC 2424 – CTE - CHILD DEVELOPMENT ASSOCIATE TRAINING III.**

Four hours credit ANGELINA COLLEGE.

Continuation of the requirements for the Child Development Associate credential (CDA). The three functional areas of study include family, program management and professionalism. Course includes 2 hours of lab. Three lecture hours each week. 150 lab hours required for credentialing process. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**CHILD & FAMILY DEVELOPMENT – CDEC 2426 – CTE - ADMINISTRATION OF PROGRAMS FOR CHILDREN I.**

Four hours credit ANGELINA COLLEGE.

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. Course includes 30 hours of field experiences.

Three lecture hours each week. Three field experience hours must be conducted weekly for ten assigned weeks. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**CHILD & FAMILY DEVELOPMENT – TECA 1303 – CTE - FAMILIES, SCHOOL, AND COMMUNITY.**

Three hours credit ANGELINA COLLEGE.

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 Technology and Workforce Division 252 students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. Course includes 30 hours of field experiences.

Three lecture hours each week. Three field experience hours must be conducted weekly for ten assigned weeks. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**CHILD & FAMILY DEVELOPMENT – TECA 1311 – CTE - EDUCATING YOUNG CHILDREN.**

Three hours credit ANGELINA COLLEGE.

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 Assessment of Educational Progress 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; and the course includes 30 hours of field experiences.

Three lecture hours each week. Three field experience hours must be conducted weekly for ten assigned weeks. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**CHILD & FAMILY DEVELOPMENT – TECA 1318 – CTE - WELLNESS OF THE YOUNG CHILD.**

Three hours credit ANGELINA COLLEGE.

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 Assessment of Educational Progress 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. Course includes 30 hours of field experiences.

Three lecture hours each week. Three field experience hours must be conducted weekly for ten assigned weeks. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**CHILD & FAMILY DEVELOPMENT – TECA 1354 – CTE - CHILD GROWTH & DEVELOPMENT.**

Three hours credit ANGELINA COLLEGE.

A study of the physical, emotional, social, language, and cognitive factors impacting growth and development of children through adolescence.

**.5 CREDIT HIGH SCHOOL**

**CRIMINAL JUSTICE**

**13029200**

**CRIMINAL JUSTICE – CRIJ 1301 – CTE – INTRODUCTION TO CRIMINAL JUSTICE.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**CRIMINAL JUSTICE – CRIJ 1306 – CTE – COURT SYSTEMS & PRACTICES.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**CRIMINAL JUSTICE – CRIJ 1307 – CTE - CRIME IN AMERICA.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**CRIMINAL JUSTICE – CRIJ 1310 – CTE - FUNDAMENTALS OF CRIMINAL LAW.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**CRIMINAL JUSTICE – CRIJ 1313 – CTE - JUVENILE JUSTICE SYSTEM.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**CRIMINAL JUSTICE – CRIJ 2301 – CTE - COMMUNITY RESOURCES IN CORRECTIONS.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**CRIMINAL JUSTICE – CRIJ 2313 – CTE - CORRECTIONAL SYSTEMS AND PRACTICES.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**



**CRIMINAL JUSTICE – CRIJ 2314 – CTE - CRIMINAL INVESTIGATION.**

Three hours credit – ANGELINA COLLEGE.  
Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation.  
Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**CRIMINAL JUSTICE – CRIJ 2323 – CTE - LEGAL ASPECTS OF LAW ENFORCEMENT.**

Three hours credit – ANGELINA COLLEGE.  
Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability.  
Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**CRIMINAL JUSTICE – CRIJ 2328 – CTE - POLICE SYSTEMS AND PRACTICES.**

Three hours credit – ANGELINA COLLEGE.  
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.  
Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

## **DIESEL TECHNOLOGY**

**DIESEL TECHNOLOGY – DEMR 1405 – CTE - BASIC ELECTRICAL SYSTEMS.**

Four hours credit – ANGELINA COLLEGE.  
An introduction to the basic principles of electrical systems of diesel powered equipment with emphasis on starters, alternators, batteries, and regulators. The students will perform circuit analysis; identify electrical symbols; use special tools; and test circuits.  
Three lecture and two lab hours each week. Lab fee.

**Prerequisite: Work Keys test sections for Applied Math and Reading for Information Level 4.**

**.5 CREDIT HIGH SCHOOL**

**DIESEL TECHNOLOGY – DEMR 1406 – CTE - DIESEL ENGINE I.**

Four hours credit – ANGELINA COLLEGE.  
An introduction to the basic principles of diesel engines and systems. The student will describe the history of diesel engines and diesel systems and their evolution; demonstrate knowledge of the basic principles of diesel systems and engines and how they function; and utilize precision instruments to diagnose and repair basic systems and engines.  
Two lecture and six lab hours each week. Lab fee.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**.5 CREDIT HIGH SCHOOL**

**DIESEL TECHNOLOGY – DEMR 1413 – CTE - FUEL SYSTEMS.**

Four hours credit – ANGELINA COLLEGE.  
In-depth coverage of fuel injector pumps and injection systems with emphasis on operation and fuel flow. The student will identify various components of injector pumps and injectors as well as the components of the complete fuel system. Evaluation of injector pumps and injectors will be accomplished by the student using special tools for inspection and testing. Three lecture and two lab hours each week. Lab fee.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**.5 CREDIT HIGH SCHOOL**

**DIESEL TECHNOLOGY – DEMR 1442 – CTE - POWER TRAIN APPLICATIONS I.**

Four credit hours – ANGELINA COLLEGE.  
In-depth coverage of the mechanics and theory of power trains. Emphasis on disassembly, inspection, and repair of power train components. Interpret power flow; assess component failure; and demonstrate ability to make power train component repairs.

Three lecture and two lab hours each week. Lab fee.

**Prerequisite: DEMR 1413 and Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**  
**.5 CREDIT HIGH SCHOOL**

**DIESEL TECHNOLOGY – DEMR 1449 – CTE - DIESEL ENGINE II.**

Four hours credit – ANGELINA COLLEGE.

An in-depth coverage of disassembly, repair, identification, evaluation, and reassembly of diesel engines. The student will identify engine components and their working relationship to the engine; evaluate engine components by inspection, testing and/or measurement; and demonstrate disassembly and reassembly of the diesel engine.

Two lecture and six lab hours each week. Lab fee.

**Prerequisite: DEMR 1406 and Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**  
**.5 CREDIT HIGH SCHOOL**

**DIESEL TECHNOLOGY – DEMR 2432 – CTE - ELECTRONIC CONTROLS.**

Four hours credit – ANGELINA COLLEGE.

Study of advanced skills in diagnostic and programming techniques of electronic control systems. The student will utilize specialized tools to diagnose or change parameters; read and interpret technical manuals; and identify and test sensors and actuator circuits.

Three lecture and two lab hours each week. Lab fee.

**Prerequisite: DEMR 1405 and Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**  
**.5 CREDIT HIGH SCHOOL**

## **DRAFTING AND DESIGN TECHNOLOGY**

**13004210**

**DRAFTING AND DESIGN TECHNOLOGY – DFTG 1405 – CTE –TECHNICAL DRAFTING.**

Four hours credit – ANGELINA COLLEGE.

Introduction to the principles of drafting to include terminology and fundamentals, Technology and Workforce Division 255 including size and shape descriptions, projections methods, geometric construction, sections, auxiliary views, and reproduction processes.

Two lecture and four lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – ARCE 1452 – CTE – STRUCTURAL DRAFTING.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: DFTG 1409.**  
**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – ARCE 2452 – CTE – MECHANICAL AND ELECTRICAL SYSTEMS.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: DFTG 1417.**  
**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – DFTG 1325 – CTE – BLUEPRINT READING AND SKETCHING.**

Three hours credit – ANGELINA COLLEGE.

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. Three lecture hours.

**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – DFTG 1409 – CTE – BASIC COMPUTER-AIDED DRAFTING.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – DFTG 1417 – CTE – ARCHITECTURAL DRAFTING – RESIDENTIAL.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: DFTG 1409.**

**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – DFTG 1433 – CTE – MECHANICAL DRAFTING.**

Four hours credit – ANGELINA COLLEGE.

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. Two lecture and four lab hours each week.

**Prerequisite: DFTG 1409.**

**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – DFTG 2366 – CTE – PRACTICUM (FIELD EXPERIENCE).**

Three hours credit – ANGELINA COLLEGE.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and 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.

One lecture hour and sixteen hours at the workplace each week.

**Prerequisite: Thirty-four hours of drafting courses.**

**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – DFTG 2402 – CTE – MACHINE DRAFTING.**

Four hours credit – ANGELINA COLLEGE.

Production of detail and assembly drawings of machines, threads, gears, cams, tolerances, limit dimensioning, surface finishes, and precision drawings.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: DFTG 1409 and DFTG 1433.**

**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – DFTG 2421 – CTE – TOPOGRAPHICAL DRAFTING.**

Four hours credit – ANGELINA COLLEGE.

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. Two lecture and four lab hours each week.

**Prerequisite: DFTG 1409.**

**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – DFTG 2430 – CTE – CIVIL DRAFTING.**

Four hours credit – ANGELINA COLLEGE.

An in-depth study of drafting methods and principles used in civil engineering. The student will interpret field notes; develop documents for road and highway design; analyze and layout drainage and utilities infrastructure; and perform appropriate calculations.

Three lecture and three lab hours each week. Lab fee.

**Prerequisite: DFTG 1409.**

**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – DFTG 2486 – CTE – INTERNSHIP – DRAFTING.**

Four hours credit – ANGELINA COLLEGE.

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. One hour lecture and sixteen hours each week at the workplace.

**Prerequisite: Sophomore standing and a 3.0 or better G.P.A.,**

**.5 CREDIT HIGH SCHOOL**

**DRAFTING AND DESIGN TECHNOLOGY – GISC 1411 – CTE – INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) AND GLOBAL POSITIONS SYSTEMS (GPS).**

Four hours credit – ANGELINA COLLEGE.

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. Two lecture and four lab hours each week. Lab fee.

**Prerequisite: DFTG 1409.**

**.5 CREDIT HIGH SCHOOL**

## **ELECTROMECHANICAL TECHNOLOGY**

**Electromechanical Technology – ELPT 1321 – CTE - Introduction to Electrical Safety and Tools.**

Three hours credit – ANGELINA COLLEGE. ANGELINA COLLEGE.

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.

Three lecture hours and one lab hour each week.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – ELPT 1411 – CTE - Basic Electrical Theory.**

Four hours credit – ANGELINA COLLEGE.

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.

Three lecture and two lab hours each week. Lab fee.

**Corequisite: TECM 1301.**

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – ELPT 1429 – CTE - Residential Wiring.**

Four hours credit – ANGELINA COLLEGE.

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. Three lecture and two lab hours each week. Lab fee.

**Corequisite: TECM 1301.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – ELPT 1440 – CTE - Master Electrician Exam Review I.**

Four hours credit – ANGELINA COLLEGE.

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. Four lecture hours each week.

**Prerequisites: Associate of Applied Science in  
Electromechanical Technology.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – ELPT 1441 – CTE - Motor Control.**

Four hours credit – ANGELINA COLLEGE.

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. Three lecture and two lab hours each week. Lab fee.

**Corequisite: TECM 1301.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – ELPT 1445 – CTE - Commercial Wiring.**

Four hours credit – ANGELINA COLLEGE

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. Three lecture and two lab hours each week. Lab fee.

**Corequisite: TECM 1301.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – ELPT 2331 – CTE - AC/DC Drives.**

Three hours credit – ANGELINA COLLEGE.

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.

Two lecture and three lab hours each week. Lab fee.

**Prerequisite: ELPT 1411.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – ELPT 2305 – CTE - Motors and Transformers.**

Four hours credit – ANGELINA COLLEGE.

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.  
Two lecture and two lab hours each week. Lab fee.

**Prerequisite: ELPT 1411.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – ELPT 2419 – CTE - Programmable Logic Controllers I.**

Four hours credit – ANGELINA COLLEGE.  
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.  
Two lecture and three lab hours each week. Lab fee.

**Prerequisite: ELPT 1411.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – ENTC 2310 – CTE - Machine Design.**

Three hours credit – ANGELINA COLLEGE.  
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.  
Two lecture and two lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 1256 – CTE - EPA Recovery Certification Preparation.**

Two hours credit – ANGELINA COLLEGE.  
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.  
Two lecture hours each week.

**Prerequisite: WorkKeys Test Section for  
Applied Math and Reading for Information.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 1303 – CTE - Air Conditioning Control Principles.**

Three hours credit – ANGELINA COLLEGE.  
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.  
Two lecture and four lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 1310 – CTE - HVAC Shop Practices and Tools.**

Three hours credit – ANGELINA COLLEGE.  
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.  
Two lecture and three lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 1356 – CTE - EPA Recovery Certification Preparation.**

Three hours credit – ANGELINA COLLEGE.  
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. The student will learn to define refrigerant recovery, recycle and reclaim terms; explain refrigerant recovery, recycle, and reclaim procedures; analyze refrigerant recovery, recycle, and reclaim operations; identify Type 1, Type II, and Type III appliances; examine and utilize Section 608 of the Clean Air Act of 1990 Refrigerant, Recycle and Reclaim.  
Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 1401 – CTE - Basic Electricity For HVAC.**

Four hours credit – ANGELINA COLLEGE.

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. Three lecture and three lab hours. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 1407 – CTE - Refrigeration Principles.**

Four hours credit – ANGELINA COLLEGE.

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. Three hours lecture and three hours lab each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 1441 – CTE - Residential Air Conditioning.**

Four hours credit – ANGELINA COLLEGE.

A study of components, applications, and installation of mechanical air conditioning systems including operation conditions, troubleshooting, repair, and charging of air conditioning systems. Three lecture and three lab hours each week. Lab fee.

**Prerequisite: HART 1401 and HART 1407.**

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 1445 – CTE - Gas And Electric Heating.**

Four hours credit – ANGELINA COLLEGE.

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. Three lecture and three lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 2336 – CTE - Troubleshooting.**

Four hours credit – ANGELINA COLLEGE.

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. One hour lecture and five hours lab each week. Lab fee.

**Prerequisites: HART 1401, 1303, 1407, and/or co-requisite HART 1445.**

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 2334 – CTE - Advanced Air Conditioning.**

Four hours credit – ANGELINA COLLEGE.

Theory and practical application of electrical control devices, electromechanical controls, and/or pneumatic controls. Two lecture and three lab hours each week. Lab fee.

**Prerequisite: HART 1441.**

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 2441 – CTE - Commercial Air Conditioning.**

Four hours credit – ANGELINA COLLEGE.

A study of components, applications, and installation of air conditioning systems with capacities of 25 tons or less. Three lecture and three lab hours each week. Lab fee.

**Prerequisite: HART 1441.**

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HART 2442 – CTE - Commercial Refrigeration.**

Four hours credit – ANGELINA COLLEGE.

Theory and practical application in the maintenance of commercial refrigeration; medium, and low temperature applications and ice machines.

Three lecture and three lab hours each week. Lab fee.

**Prerequisite: HART 1401 and HART 1407.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HYDR 1350 – CTE - Hydraulics, Fabrication & Repair.**

Three hours credit – ANGELINA COLLEGE.

Fabrication of hydraulic power units to provide fluid power for an industrial or mobile operation. Includes techniques and methods of constructing conduits and fittings. The student will demonstrate fabrication of power units; interpret blueprints and specifications; demonstrate disassembly, repair, and reassembly of hydraulic components; and analyze failed components.

Two lecture hours and two lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HYDR 1391 – CTE - Special Topics In Hydraulics Technology/Technician.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture and lab hours each week.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HYDR 1409 – CTE - Basic Fluid Power I (Hydraulics).**

Four hours credit – ANGELINA COLLEGE.

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.

Three lecture hours and two lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HYDR 1415 – CTE - Basic Fluid Power II (Pneumatics).**

Four hours credit – ANGELINA COLLEGE.

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.

Three lecture hours and two lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HYDR 2330 – CTE - Fluid Power System Design.**

Three hours credit – ANGELINA COLLEGE.

Advanced operation of control valves and their controls for open and closed loop systems. Topics include filtration requirements for hydraulic systems; operation of hydraulic circuits; design circuits, including hydraulics, pneumatics, electrical/electronic controls, and mechanical interface. The student will identify the fluid power symbols for control valves; the fluid requirements for control valves; and describe the operation of control valves; contrast open and closed loop control; describe symmetrical and nonsymmetrical spools; apply the use of constant torque motors; describe the operation of linear velocity displacement transformer (LVDT) in proportional valves; and describe digital electrohydraulic devices; and design a fluid power system.

Two lecture and three lab hours each week. Lab fee.

**Prerequisite/co-requisite: HYDR 2459.  
.5 CREDIT HIGH SCHOOL**



**Electromechanical Technology – HYDR 2455 – CTE - Hydraulics Proportional & Servo Valves.**

Four hours credit – ANGELINA COLLEGE.

Electronics and instrumentation associated with hydraulic proportional and servo valves. The student will identify servo or proportional valves for specific applications; demonstrate troubleshooting techniques for proportional and servo valves; and systems.

Three lecture hours and two lab hours each week. Lab fee.

**Prerequisite/co-requisite: HYDR 2459.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – HYDR 2459 – CTE - Advanced Hydraulics.**

Four hours credit – ANGELINA COLLEGE.

A study of cylinder loading, accumulator volume, positive and negative loads and specialty valves. The student will calculate positive and negative loads; calculate side load on cylinder rods; calculate the volume of fluid in an accumulator; and utilize specialty valves.

Three lecture hours and two lab hours each week. Lab fee.

**Prerequisite: HYDR 1409 or HYDR 1415.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – INTC 1301 – CTE - Principles of Industrial Measurements.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week. Lab fee.

**Prerequisite Associate of Applied Science in  
Electromechanical Technology.  
.5 CREDIT HIGH SCHOOL**

**Electromechanical Technology – INTC 2359 – CTE - Distributed Control Systems.**

Three hours credit – ANGELINA COLLEGE.

Philosophy and application of distributed control systems. Includes hardware, firmware, software, configuration, communications and networking systems required to implement a distributed control strategy.

Two lecture and three lab hours each week. Lab fee.

**Corequisite: TECM 1301.  
.5 CREDIT HIGH SCHOOL**

**Electronics Technology – CETT 1325 – CTE - Digital Fundamentals.**

Three hours credit – ANGELINA COLLEGE.

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.

Two lecture and two lab hours each week. Lab fee.

**Corequisite: TECM 1303.  
.5 CREDIT HIGH SCHOOL**

**Electronics Technology – CETT 1349 – CTE - Digital Systems.**

Three hours credit – ANGELINA COLLEGE.

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.

Two lecture and two lab hours each week. Lab fee.

**Prerequisite: CETT 1325.  
.5 CREDIT HIGH SCHOOL**

**Electronics Technology – CETT 1409 – CTE - DC-AC Circuits.**

Four hours credit – ANGELINA COLLEGE.

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.

Three lecture and two lab hours each week. Lab fee.

**Corequisite: TECM 1303.  
.5 CREDIT HIGH SCHOOL**

**Electronics Technology – CETT 1457 – CTE - Linear Integrated Circuits.**

Four hours credit – ANGELINA COLLEGE.

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.

Three lecture and two lab hours each week. Lab Fee.

**Prerequisite: CETT 1409.  
.5 CREDIT HIGH SCHOOL**

**Electronics Technology – CETT 2437 – CTE - Microcomputer Control.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: CETT 1409.  
.5 CREDIT HIGH SCHOOL**

**Electronics Technology – CPMT 1311 – CTE - Introduction to Computer Maintenance.**

Three hours credit – ANGELINA COLLEGE.

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.

Two lecture and two lab hours each week. Lab fee.

**Prerequisite: or concurrent enrollment in  
TECM 1303. Textbook must be purchased from  
Angelina College Bookstore.  
.5 CREDIT HIGH SCHOOL**

**Electronics Technology – ITSC 1305 – CTE - Introduction to PC Operating Systems.**

Three hours credit – ANGELINA COLLEGE.

A study of personal computer operating systems. Topics include installation and configuration, file management, memory and storage management, control of peripheral devices, and use of utilities. The student will install, configure, and maintain the operating system; perform basic file management operations; organize and allocate primary and secondary storage; access and control peripheral devices; and demonstrate the use of utilities.

Two lecture and two lab hours each week. Lab fee.

**Prerequisite: CPMT 1311 or concurrent  
enrollment. Textbook must be purchased from  
Angelina College Bookstore.  
.5 CREDIT HIGH SCHOOL**

**Electronics Technology – ITCC 1314 – CTE - CCNA 1: Introduction to Networks.**

Three hours credit – ANGELINA COLLEGE.

This course covers networking architecture, structure, 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. Introduces the students to programming routers and switches.

Two lecture and two lab hours per week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Electronics Technology – ITCC 1340 – CTE - CCNA 2: Routing and Switching Essentials.**

Three hours credit – ANGELINA COLLEGE.

Describes the architecture, components, and basic operation of routers and explains the basic principles of routing and routing protocols. It also provides and in-depth understanding of how switches operate and are implemented in the LAN environment for small and large networks.

Two lecture and two lab hours per week.

**Prerequisites: ITCC 1314. Lab fee.  
.5 CREDIT HIGH SCHOOL**

**Electronics Technology – ITCC 2312 – CTE - CCNA 3: Scaling Networks –CCNA R&S.**

Three hours credit – ANGELINA COLLEGE.

Scaling Networks (ScaN) covers the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches using advanced protocols.

Two lecture and two lab hours per week. Lab fee.

**Prerequisites, ITCC1314, ITCC1340.  
.5 CREDIT HIGH SCHOOL**

**Electronics Technology – ITCC 2313 – CTE - CCNA 4: WAN.**

Three hours credit – ANGELINA COLLEGE.

Technologies and network services required by converged applications in a complex network; enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements.

Two lecture and two lab hours per week. Lab fee.

**Prerequisites: ITCC 1314, ITCC 1340, and  
ITCC 2312.  
.5 CREDIT HIGH SCHOOL**

**Electronics Technology – LOTT 1301 – CTE - Introduction to Fiber Optics.**

Three credit hours – ANGELINA COLLEGE.

An introductory course in fiber optics and its application, including advantages of fiber, light transmission in fiber, types of fiber, sources, detectors, and connectors.

Two lecture and two lab hours each week. Lab fee.

**Prerequisite: Proficiency on work keys,  
reading and mathematics.  
.5 CREDIT HIGH SCHOOL**

**Engineering – ENGR 1304 – CTE - Engineering Graphics I.**

Three hours credit – ANGELINA COLLEGE.

An introductory course including the use of instruments, computer graphics, geometrical construction, orthographic projections, auxiliaries, sections, dimensioning, axonometric projection, threads, and descriptive geometry applications.

Two lecture and four lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Engineering – ENGR 1305 – CTE - Engineering Graphics II.**

Three hours credit – ANGELINA COLLEGE.

A course involving the principles and application of orthographic projections, including space relation of points, lines, and planes; true length lines in space, intersection and development of space surfaces and curved surfaces; vectors, shades, and shadows.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: ENGR 1304.  
.5 CREDIT HIGH SCHOOL**

## HUMAN SERVICES

**HUMAN SERVICES - CMSW 1191 – CTE – BASIC FAMILY ASSESSMENT.**

One credit hour – ANGELINA COLLEGE.

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. This course examines assessments commonly used in social services that focus on family systems.

One lecture hour per week.

**Corequisite: PMHS 1280 – Cooperative  
Education I.  
.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - CMSW 1309 – CTE – PROBLEMS OF CHILDREN AND ADOLESCENTS.**

Three hours credit – ANGELINA COLLEGE.

Examine common problems and evaluate effective prevention and intervention models of at-risk children and youth. Topics include social, family, educational systems impact, juvenile delinquency, teen sexuality, and mental health including addictive behaviors to promote wellness.

Three lecture hours per week.

**Prerequisites: SCWK 1321.**

**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - CMSW 1313 – CTE – ASSESSMENT AND SERVICE DELIVERY.**

Three hours credit – ANGELINA COLLEGE.

A study of interviewing and assessment instruments and approaches for working with multicultural populations. Emphasis is on service delivery systems in human services. Topics include awareness of commonly used assessments, ethical standards of practice, awareness of multicultural issues and competence in service delivery. Students will identify commonly used assessments including a psychosocial history; articulate client rights and ethical responsibilities; describe limitations of confidentiality; identify community resources; and create alliances with multidisciplinary professionals. Students will demonstrate appropriate results reporting to clients in hypothetical service situations.

Three lecture hours per week.

**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - CMSW 1191 – CTE – BASIC FAMILY ASSESSMENT.**

One credit hour – ANGELINA COLLEGE.

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. This course examines assessments commonly used in social services that focus on family systems.

One lecture hour per week.

**Corequisite: PMHS 1280 – Cooperative Education I.**

**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - CMSW 1309 – CTE – PROBLEMS OF CHILDREN AND ADOLESCENTS.**

Three hours credit – ANGELINA COLLEGE.

Examine common problems and evaluate effective prevention and intervention models of at-risk children and youth. Topics include social, family, educational systems impact, juvenile delinquency, teen sexuality, and mental health including addictive behaviors to promote wellness.

Three lecture hours per week.

**Prerequisites: SCWK 1321.**

**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - CMSW 1313 – CTE – ASSESSMENT AND SERVICE DELIVERY.**

Three hours credit – ANGELINA COLLEGE.

A study of interviewing and assessment instruments and approaches for working with multicultural populations. Emphasis is on service delivery systems in human services. Topics include awareness of commonly used assessments, ethical standards of practice, awareness of multicultural issues and competence in service delivery. Students will identify commonly used assessments including a psychosocial history; articulate client rights and ethical responsibilities; describe limitations of confidentiality; identify community resources; and create alliances with multidisciplinary professionals. Students will demonstrate appropriate results reporting to clients in hypothetical service situations.

Three lecture hours per week.

**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - CMSW 1327 – CTE – Treatment Modalities for Special Populations.**

Three hours credit – ANGELINA COLLEGE.

An introduction to evidence-based treatment methods with special populations including ethnic minorities, elderly, children, youth, alternative lifestyles, persons with addictions or mental health issues.

Three lecture hours per week.

**Corequisite: DAAC or PMHS 2280/2281.**

**Prerequisites: SCWK 1321, CMSW 1313 and DAAC 1311.**

**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - CMSW 1353 – CTE – FAMILY INTERVENTION STRATEGIES.**

Three hours credit – ANGELINA COLLEGE.

The study of current family intervention strategies. The student will distinguish between major theories of assessment, intervention and treatment in families. Study will emphasize healthy family structures and family development stages as they apply to interventions. Students will also develop self-awareness as connected to the family system.

Three lecture hours per week.

**Prerequisite: SCWK 1321 or DAAC 1319.  
.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - DAAC 1311 – CTE – COUNSELING THEORIES.**

Three credit hours – ANGELINA COLLEGE.

An examination of the major theories and current treatment modalities used in the field of counseling. Students will identify major counseling theories; define and explain techniques relevant to the various theories; and identify major approaches to treatment. Ethics and professional standards in counseling will also be examined, along with the student's development as a helper in the Human Services profession.

Three lecture hours per week.

**Prerequisites: SCWK 1321 – Orientation to  
Social Services.  
.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - DAAC 1417 – CTE – BASIC COUNSELING SKILLS.**

Four credit hours– ANGELINA COLLEGE.

An overview and application of the basic counseling skills.

Four lecture hours per week. Includes lab for counseling skills practice.

Prerequisite: DAAC 1311, Counseling Theories.

**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - GERS 1345 – CTE – POLICIES AND PROGRAMS FOR OLDER ADULTS.**

Three hours credit – ANGELINA COLLEGE.

Students will identify the public policies and programs designed to address issues related to older adults, including the identification of the least restrictive living environment for elder services. Students will identify services and programs available for older adults; identify common themes in public policy related to aging; analyze the impact of public policies and programs; and develop strategies to impact the creation of public policy related to older adults.

Three lecture hours per week.

**Prerequisite: SCWK 1321.  
.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - PMHS 1280 – CTE – COOPERATIVE EDUCATION I – PSYCHIATRIC/MENTAL HEALTH SERVICES TECHNICIAN.**

Two-semester hour's credit – ANGELINA COLLEGE.

Career related activities in the student's area of specialization are offered through an individualized agreement among the college, employer (state, regional and local human services agencies), and student. Under 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, the student will 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. Students will complete a research project based on their assigned placement agencies.

Two hours of lecture each week.

**Prerequisite: SCWK 1321  
Corequisite: CMSW 1191- Basic Family  
Assessment.  
.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - PMHS 2280 – CTE – COOPERATIVE EDUCATION II - PSYCHIATRIC/MENTAL HEALTH SERVICES TECHNICIAN.**

Two semester hours credit – ANGELINA COLLEGE.

Career related activities in the student's area of specialization are offered through an individualized agreement among the college, employer (state, regional and local human services agencies), and student. Under 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, the student will 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. Students will complete a research project reflecting counseling theories practiced at their placement agencies.

Two hours of lecture each week. 100 clock hours of field experience required.

**Prerequisite: SCWK 1321 and PMHS 1280.**  
**Corequisite: PSYT 2301 – Psychology of Group Dynamics, or CMSW 1327-Treatment Modalities of Special Populations.**  
**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - PMHS 2281 – CTE – COOPERATIVE EDUCATION III - PSYCHIATRIC/MENTAL HEALTH SERVICES TECHNICIAN.**

Two semester hours credit – ANGELINA COLLEGE.

Career related activities in the student's area of specialization are offered through an individualized agreement among the college, employer (state, regional and local human services agencies), and student. Under 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, the student will 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. Students will complete a research project to prepare for entering the workforce in human services.

Two hours of lecture each week. 100 clock hours of field experience required.

**Prerequisite: DAAC 1311, PSYT 2321 and PMHS 2280.**  
**Corequisite: PSYT 2301 – Psychology of Group Dynamics, or CMSW 1327-Treatment Modalities of Special Populations.**  
**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - PSYT 2301 – CTE – PSYCHOLOGY OF GROUP DYNAMICS.**

Three hours credit – ANGELINA COLLEGE.

Exploration of group counseling skills, techniques, stages of group development, confidentiality and ethics; and group leader roles, leadership and facilitation. Students will differentiate between types of groups; describe the basic stages of the group process; participate in development of group leadership skills; cite examples of client documentation and use of record keeping skills; and identify issues of confidentiality. Three lecture hours per week. Lab included for practice of group leadership skills.

**Corequisite: PMHS 2280 or 2281 – Cooperative Education II or III.**  
**Prerequisites: PMHS 1280 and DAAC 1311.**  
**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - PSYT 2321 – CTE – CRISIS INTERVENTION.**

Three hours credit – ANGELINA COLLEGE.

Examination of crisis management and intervention theories in assisting clients in crisis situations. Topics include coping skills to increase emotional or behavioral stability through resolution of crisis and suicide assessment and intervention. Students will apply principles and theories of crisis intervention and demonstrate crisis intervention skills in a practice environment.

Three lecture hours each week.

**Prerequisite: SCWK 1321.**  
**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - PSYT 2331 – CTE – ABNORMAL PSYCHOLOGY.**

Three semester hours credit – ANGELINA COLLEGE.

Examination and assessment of the symptoms, etiology, and treatment procedures of mental, emotional, and behavioral disorders. Study will focus on clinical disorders, including mood and anxiety disorders. Students will analyze symptomatic disorders; and design treatment plans and strategies.

Three lecture hours each week.

**Prerequisite: SCWK 1321, Orientation to Social Services and DAAC 1311, Counseling Theories.**  
**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - SCWK 1321 – CTE – ORIENTATION TO SOCIAL SERVICES.**

Three credit hours – ANGELINA COLLEGE.

Introduction to the basic concepts, information, and practices within the field of social services. Topics include a survey of the historical development of social services; populations served by social service workers; and review of current treatment and/or services. Students will: Describe the historical development of social services; discuss terminology used by social service providers; assess client needs to determine eligibility for social service programs; and compare and contrast the populations served including treatments and resources.

Three lecture hours per week.

**Prerequisite: None. Corequisite with other freshman Human Services courses first semester in the major.**

**.5 CREDIT HIGH SCHOOL**

**HUMAN SERVICES - SCWK 2301 – CTE – ASSESSMENT AND CASE MANAGEMENT.**

Three hours credit – ANGELINA COLLEGE.

Exploration of procedures to identify and evaluate an individual's and/or family's strengths, weaknesses, problems, and needs in order to develop an effective plan of action. Topics include oral and written communications essential for screening, assessment, and case management to determine the need for prevention, intervention and/or referral and probable case management needs for at-risk populations. Students will describe the steps in screening, assessment, and case management; gather relevant information from client and secondary sources; and apply knowledge of assessment skills of special population clients.

Three lecture hours per week.

**Prerequisites: CMSW 1313, Assessment and Service Delivery, DAAC 1311, Counseling Theories, and PSYT 2321, Crisis Intervention.**

**.5 CREDIT HIGH SCHOOL**

## **MACHINE TOOL TECHNOLOGY**

**MACHINE TOOL TECHNOLOGY – MCHN 1190 – CTE – SPECIAL TOPICS IN MACHINE SHOP ASSISTANT.**

One hour credit – ANGELINA COLLEGE.

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.

**Co-requisite: Must be taken with MCHN 1441.**

**.5 CREDIT HIGH SCHOOL**

**MACHINE TOOL TECHNOLOGY – MCHN 1191 – CTE – SPECIAL TOPICS IN MACHINE SHOP ASSISTANT.**

One hour credit – ANGELINA COLLEGE.

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.

**CO-REQUISITES Must be taken with MCHN 1452 and MCHN 1454.**

**.5 CREDIT HIGH SCHOOL**

**MACHINE TOOL TECHNOLOGY – MCHN 1343 – CTE – MACHINE SHOP MATHEMATICS.**

Three hours credit – ANGELINA COLLEGE.

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. Proficiency on work keys, reading and mathematics.

Three hours lecture each week.

**.5 CREDIT HIGH SCHOOL**

**MACHINE TOOL TECHNOLOGY – MCHN 1426 – CTE – INTRODUCTION TO CAM.**

Four hours credit – ANGELINA COLLEGE.

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.

Two hours lecture and four hours lab each week. Lab fee.

**Prerequisites: DFTG 1325, MCHN 1343, and 1438.**

**.5 CREDIT HIGH SCHOOL**

**MACHINE TOOL TECHNOLOGY – MCHN 1438 – CTE – MACHINING I.**

Four hours credit – ANGELINA COLLEGE.

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. Proficiency on work keys, reading and mathematics.

Two lecture and four lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**MACHINE TOOL TECHNOLOGY – MCHN 1441 – CTE –BASIC MACHINE SHOP II.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: MCHN 1438.**

**.5 CREDIT HIGH SCHOOL**

**MACHINE TOOL TECHNOLOGY – MCHN 1452 – CTE – INTERMEDIATE MACHINING I.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: MCHN 1441.**

**.5 CREDIT HIGH SCHOOL**

**MACHINE TOOL TECHNOLOGY – MCHN 1454 – CTE – INTERMEDIATE MACHINING II.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four laboratory hours each week.

**Prerequisite MCHN 1452 Lab fee.**

**.5 CREDIT HIGH SCHOOL**

**MACHINE TOOL TECHNOLOGY – MCHN 2431 – CTE – OPERATION OF CNC TURNING CENTERS.**

Four hours credit – ANGELINA COLLEGE.

CNC operations with emphasis on turning centers, programming, setup, tool selection and machine operation.

Three lecture and three lab hours per week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**MACHINE TOOL TECHNOLOGY – MCHN 2438 – CTE – ADVANCED COMPUTER-ASSISTED MANUFACTURING (CAM).**

Four hours credit – ANGELINA COLLEGE.

Use Computer-Aided Manufacturing (CAM) software to create multi-axis part programs; transfer programs to the machine control unit; and machine parts.

Two lecture and four lab hours each week.

**Prerequisite MCHN 1426 Lab fee.**

**.5 CREDIT HIGH SCHOOL**

**MACHINE TOOL TECHNOLOGY – MCHN 2441 – CTE – ADVANCED MACHINING OPERATIONS I.**

Four hours credit – ANGELINA COLLEGE.



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.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: Associate of Applied Science in Machine Tool Technology  
.5 CREDIT HIGH SCHOOL**

**MACHINE TOOL TECHNOLOGY – MCHN 2445 – CTE – ADVANCED MACHINING OPERATIONS II.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: MCHN 2441.  
.5 CREDIT HIGH SCHOOL**

**PARALEGAL (LEGAL ASSISTANT)**

**PARALEGAL – LGLA 1119 – CTE – LEGAL ETHICS & PROFESSIONAL RESPONSIBILITY.**

One hour credit – ANGELINA COLLEGE.

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.

One lecture hour per week.

**Prerequisite or concurrent enrollment in LGLA 1307.  
.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 1303 – CTE – LEGAL RESEARCH.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours per week with extensive outside use of legal research resources.

**Prerequisite: LGLA 1307.  
.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 1307 – CTE – CTE INTRODUCTION TO LAW AND THE LEGAL PROFESSION.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 1345 – CTE - CIVIL LITIGATION.**

Three hours credit – ANGELINA COLLEGE.

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, U.S. Constitution and its amendments.

Three lecture hours each week.

**Prerequisite or concurrent enrollment in LGLA 1307.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 1351 – CTE – CONTRACTS.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite or concurrent enrollment in LGLA 1307.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 1353 – CTE – WILLS, TRUSTS AND PROBATE ADMINISTRATION.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite or concurrent enrollment in LGLA 1307.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 1355 – CTE – FAMILY LAW.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite or concurrent enrollment in LGLA 1307.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 1391 – CTE – SPECIAL TOPICS IN PARALEGAL/LEGAL ASSISTANT.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisites: Completion of 45 hours in the program including LGLA 1303 and LGLA 1307.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 2166 – CTE – PRACTICUM (OR FIELD EXPERIENCE).**

One hour credit – ANGELINA COLLEGE.

Practical general workplace training supported by an individualized learning plan developed by the employer, college and 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.

Minimum six hours per week practicum and lecture one hour per week.

**Prerequisites: LGLA 1303, 1307, 1345, 1351, 2303, 2309 and 2313 or permission of the instructor.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 2266 – CTE – PRACTICUM (OR FIELD EXPERIENCE).**

Two hours credit – ANGELINA COLLEGE.

Practical general workplace training supported by an individualized learning plan developed by the employer, college and 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.

Minimum thirteen hours per week practicum and lecture one hour per week.

**Prerequisites: LGLA 1303, 1307, 1345, 1351, 2303, 2309 and 2313 or permission of the instructor.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 2303 – CTE – TORTS AND PERSONAL INJURY LAW.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite or concurrent enrollment in LGLA 1307.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 2305 – CTE – INTERVIEWING AND INVESTIGATING.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite or concurrent enrollment in LGLA 1307.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 2309 – CTE – REAL PROPERTY.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite or concurrent enrollment in LGLA 1307.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 2371 – CTE – Advanced Criminal Law and Procedure.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite or concurrent enrollment in LGLA 1307.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 2313 – CTE - CRIMINAL LAW AND PROCEDURE.**

Three hours credit – ANGELINA COLLEGE.

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. Three lecture hours each week.

**Prerequisite or concurrent enrollment in LGLA 1307.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 2331 – CTE – ADVANCED LEGAL RESEARCH AND WRITING.**

Three hours credit – ANGELINA COLLEGE.

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. Three lecture hours each week.

**Prerequisite: LGLA 1307, prerequisite LGLA 1303 or approval of the instructor.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 2337 – CTE – MEDIATION.**

Three hours credit – ANGELINA COLLEGE.

Alternative dispute resolution. Emphasizes the role of the paralegal in mediation. Include differences between mediation and arbitration, the process of mediation, and dispute resolution techniques. The student will compare and contrast various methods of alternative dispute resolution; apply negotiation and mediation techniques; and analyze ethical issues relating to alternative dispute resolution. Three lecture hours each week.

**Prerequisite or concurrent enrollment in LGLA 1307.**

**.5 CREDIT HIGH SCHOOL**

**PARALEGAL – LGLA 2366 – CTE – PRACTICUM (OR FIELD EXPERIENCE).**

Three hours credit – ANGELINA COLLEGE.

Developed by the employer, college and 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.

Minimum twenty hours per week practicum and one lecture hour each week.

**Prerequisites: LGLA 1303, 1307, 1345, 1351, 2303, 2309 and 2313 or permission of the of the instructor.**

**.5 CREDIT HIGH SCHOOL**

## **WELDING TECHNOLOGY**

**WELDING – WLDG 1337 – CTE – INTRODUCTION TO WELDING METALLURGY.**

Three hours credit – ANGELINA COLLEGE.

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. Three lecture hours each week. Lab fee.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**.5 CREDIT HIGH SCHOOL**

**WELDING – WLDG 1391 – CTE – SPECIAL TOPICS IN WELDER/WELDING TECHNOLOGIST.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4. Must have completed 32 credit hours of welding.**

**.5 CREDIT HIGH SCHOOL**

**WELDING – WLDG 1421 – CTE – WELDING FUNDAMENTALS.**

Four hours credit – ANGELINA COLLEGE.

An introduction to the fundamentals of equipment used in oxyacetylene and arc welding, including welding and cutting safety, basic oxyacetylene welding and cutting, basic arc welding processes and basic metallurgy. The student will demonstrate safety procedures associated with oxyacetylene and arc processes; perform basic welds using oxyacetylene and arc welding equipment; and identify ferrous and non-ferrous metals.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**.5 CREDIT HIGH SCHOOL**

**WELDING – WLDG 1428 – CTE – INTRO TO SHIELDED METAL ARC WELDING (SMAW).**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. . Lab fee.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**Pre or corequisite: WLDG 1421**

**.5 CREDIT HIGH SCHOOL**

**WELDING – WLDG 1435 – CTE – INTRO TO PIPE WELDING.**

Four hours credit – ANGELINA COLLEGE.

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 2 G using various electrodes. The student will describe equipment and required pipe preparation and perform 1G an 2G welds using various electrodes.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**Pre or corequisite: WLDG 2443.**

**.5 CREDIT HIGH SCHOOL**

**WELDING – WLDG 1457 – CTE – INTERMEDIATE SHIELDED METAL ARC WELDING (SMAW).**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**Pre or corequisite: WLDG 1428.**

**.5 CREDIT HIGH SCHOOL**

**WELDING – WLDG 2288 – CTE – INTERNSHIP WELDER/WELDING TECHNOLOGY.**

Two hours credit – ANGELINA COLLEGE.

An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a business or industry. 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 unpaid experience. The course may be repeated if topic and learning outcomes vary. As outlined in the learning plan, the student will master 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 behavior, safety practices, interpersonal and teamwork skills, communicate in the applicable language of the occupation and the industry.

Eight hours of practical experience each week.

**Prerequisite: Student must have completed 36 hours of welding courses. Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**.5 CREDIT HIGH SCHOOL**

**WELDING – WLDG 2355 – CTE – ADVANCED WELDING METALLURGY.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**Prerequisite: WLDG 1337. Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**.5 CREDIT HIGH SCHOOL**

**WELDING – WLDG 2406 – CTE – INTERMEDIATE PIPE WELDING.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4. Pre or corequisite: WLDG 1435.**

**.5 CREDIT HIGH SCHOOL**

**WELDING – WLDG 2413 – CTE – WELDING USING MULTIPLE PROCESSES.**

Four hours credit – ANGELINA COLLEGE.

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. Lab fee.

Two lecture and four lab hours each week.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**Pre or corequisite: WLDG 2453.**

**.5 CREDIT HIGH SCHOOL**

**WELDING – WLDG 2443 – CTE – ADVANCED SHIELDED METAL ARC WELDING (SMAW).**

Four hours credit – ANGELINA COLLEGE.

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. Two lecture and four lab hours each week. Lab fee.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**Pre or corequisite: WLDG 1457.  
.5 CREDIT HIGH SCHOOL**

**WELDING – WLDG 2453 – CTE – ADVANCED PIPE WELDING.**

Four hours credit – ANGELINA COLLEGE.

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.

Two lecture and four lab hours each week. Lab fee.

**Prerequisite: Work Keys test sections for Applied Math Level 4 and Reading for Information Level 4.**

**Pre or corequisite: WLDG 2406.  
.5 CREDIT HIGH SCHOOL**

## HEALTH CAREERS DIVISION

### AREAS OF CONCENTRATION

Diagnostic Medical Sonography  
Pharmacy Technology Program  
Emergency Medical Services  
Radiologic Technology  
Nursing – RN/VN  
Respiratory Care Practitioner  
Surgical Technology

**Health Professions – HPRS 1201 – CTE - Introduction to Health Professions.**

Two hours credit – ANGELINA COLLEGE.

An overview of roles of various members of the health care system, educational requirements, and issues affecting the delivery of health care.

32 classroom and sixty-four lab hours.

**.5 CREDIT HIGH SCHOOL**

## DIAGNOSTIC MEDICAL SONOGRAPHY

**Diagnostic Medical Sonography – DMSO 1210 – CTE - Introduction to Sonography.**

Two hours credit – ANGELINA COLLEGE.

An introduction to the profession of sonography and the 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 classroom hours.

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 1266 – CTE - Practicum (or Field Experience) – Diagnostic Medical Sonography/Sonographer and Ultrasound Technician.**

Two hours credit – ANGELINA COLLEGE.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

256 clinical hours.

**Prerequisites: DMSO 1210. Corequisite: DMSO 1342, DMSO 1351, and DMSO 1441. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 1267 – CTE - Practicum (or Field Experience) – Diagnostic Medical Sonography/Sonographer and Ultrasound Technician.**

Two hours credit – ANGELINA COLLEGE.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

256 clinical hours.

**Prerequisites: DMSO 1342, DMSO 1351, DMSO 1266, and DMSO 1405. Corequisites: DMSO 2353, DMSO 2405. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 1342 – CTE - Intermediate Ultrasound Physics.**

Three hours credit – ANGELINA COLLEGE.

Continuation of Basic Ultrasound Physics. Includes interaction of ultrasound with tissues, the 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 classroom hours.

**Corequisites: DMSO 1266, DMSO 1351, and DMSO 1441. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 1351 – CTE - Sonographic Sectional Anatomy.**

Three hours credit – ANGELINA COLLEGE.

Sectional anatomy of the male and female body. Includes anatomical relationships of organs, vascular structures, and body planes and quadrants.

48 classroom hours.

**Prerequisites: DMSO 1210 and DMSO 1302. Lab Fee.**

**Corequisite: DMSO 1266, DMSO 1342, and DMSO 1441. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 1355 – CTE - Sonographic Pathophysiology.**

Three hours credit – ANGELINA COLLEGE.

Pathology and pathophysiology of the abdominal structures visualized with ultrasound. Includes abdomen, pelvis, and superficial structures.

48 classroom hours.

**Prerequisites: DMSO 2342, DMSO 2351, and DMSO 2460. Corequisites: DSVT 1300, DMSO 2230, DMSO 2230, DMSO 2461. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 1360 – CTE - Clinical-Diagnostic Medical Sonography/Sonographer And Ultrasound Technician I.**

Three hours credit – ANGELINA COLLEGE.

A health-related work-based learning experience that enables student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

256 clinical hours.

**Prerequisites: DMSO 1210. Corequisite: DMSO 1342, DMSO 1351, and DMSO 1405. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 1361 – CTE - Clinical-Diagnostic Medical Sonography/Sonographer and Ultrasound Technician – Clinical II.**

Three hours credit – ANGELINA COLLEGE.

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.

**Prerequisites: DMSO 1342, DMSO 1351, DMSO 1360, and DMSO 1405. Corequisites: DMSO**



**2353, DMSO 2405. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 1362 – CTE - Clinical-Diagnostic Medical Sonography/Sonographer and Ultrasound Technician – Clinical III.**

Three hours credit – ANGELINA COLLEGE.

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.  
192 clinical hours.

**Prerequisites: DMSO 1361, DMSO 2353, and DMSO 2405. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 1441 – CTE - Abdominopelvic Sonography.**

Four hours credit – ANGELINA COLLEGE.

Normal anatomy and physiology of the abdominal and pelvic cavities as related to scanning technique, transducer selection, and scanning protocols.  
48 classroom hours and 48 lab hours.

**Corequisites: DMSO 1266, DMSO 1342, and DMSO 1351. Lab fee. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 1455 – CTE - Sonographic Pathophysiology.**

Four hours credit – ANGELINA COLLEGE.

Pathology and pathophysiology of the abdominal structures visualized with ultrasound. Includes abdomen, pelvis, and superficial structures.  
48 classroom hours.

**Prerequisites: DMSO 2342, DMSO 2351, and DMSO 2366. Corequisites: DSVT 1300, DMSO 2230, DMSO 2367. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 2230 – CTE - Advanced Ultrasound and Review.**

Two hours credit – ANGELINA COLLEGE.

Knowledge, skills, and professional values within a legal and ethical framework addressing emerging technologies and professional development.  
48 classroom hours.

**Prerequisites: DMSO 2342, DMSO 2351, and DMSO 2366. Lab Fee. Corequisites: DSVT 1300, DMSO 1355, DMSO 2367. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 2266 – CTE - Practicum (or Field Experience) – Diagnostic Medical Sonography/Sonographer and Ultrasound Technician.**

Two hours credit – ANGELINA COLLEGE.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.  
224 clinical hours.

**Prerequisites: DMSO 1267, DMSO 2353, and DMSO 2405. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 2342 – CTE - Sonography of High-Risk Obstetrics.**

Three hours credit – ANGELINA COLLEGE.

Maternal disease and fetal abnormalities. Includes scanning techniques, patient history, and laboratory data, transducer selection and scanning protocols.  
48 classroom hours.

**Prerequisites: DMSO 2266. Corequisites: DMSO 2351 and DMSO 2366. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 2351 – CTE - Doppler Physics.**

Three hours credit – ANGELINA COLLEGE.  
Doppler and hemodynamic principles relating to arterial and venous imaging.  
48 classroom hours and 48 lab hours. Lab Fee.

**Prerequisites: DMSO 2266. Corequisites:  
DMSO 2342 and DMSO 2366. Program  
acceptance required.  
.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 2353 – CTE - Sonography of Superficial Structures.**

Three hours credit – ANGELINA COLLEGE.  
Detailed study of normal and pathological superficial structures as related to scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols.  
48 classroom hours. Lab Fee.

**Prerequisites: DMSO 1342, DMSO 1266, DMSO  
1351, and DMSO 1441. Corequisites: DMSO  
1267, DMSO 2405. Program acceptance  
required.  
.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 2366 - CTE - Practicum (or Field Experience) – Diagnostic Medical Sonography/Sonographer and Ultrasound Technician .**

Three hours credit – ANGELINA COLLEGE.  
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.  
384 clinical hours.

**Prerequisites: DMSO 2266. Corequisites:  
DMSO 2342, DMSO 2351. Program acceptance  
required.  
.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 2367 – CTE - Practicum (or Field Experience) – Diagnostic Medical Sonography/Sonographer and Ultrasound Technician.**

Three hours credit – ANGELINA COLLEGE.  
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.  
384 clinical hours.

**Prerequisites: DMSO 2351, DMSO 2342, and  
DMSO 2366. Corequisite required: DMSO 2230,  
DMSO 1355, DSVT 1300. Program acceptance  
required.  
.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 2405 – CTE - Sonography of Obstetrics/ Gynecology.**

Four hours credit – ANGELINA COLLEGE.  
Detailed study of the pelvis and obstetrics/gynecology as related to scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols.  
64 classroom and 64 lab hours. Lab fee.

**Prerequisites: DMSO 1342, DMSO 1266, DMSO  
1351, and DMSO 1441. Corequisites: DMSO  
2353, DMSO 1267. Program acceptance  
required.  
.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 2460 – CTE - Clinical – Diagnostic Medical Sonography/Sonographer and Ultrasound Technician.**

Four hours credit – ANGELINA COLLEGE.  
A health-related, work-based learning experience that enables students to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional.  
384 clinical hours.

**Prerequisites: DMSO 1362. Corequisites:  
DMSO 2342, DMSO 2351. Program acceptance  
required.  
.5 CREDIT HIGH SCHOOL**

**Diagnostic Medical Sonography – DMSO 2461 – CTE - Clinical – Diagnostic Medical Sonography/Sonographer and Ultrasound Technician – Clinical V.**

Four hours credit – ANGELINA COLLEGE.

A health-related work-based learning experience that enables students to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional.  
354 clinical hours.

**Prerequisites: DMSO 2351, DMSO 2342, and DMSO 2460. Corequisite required: DMSO 2230, DMSO 1355, DSVT 1300. Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Diagnostic Vascular Technology – DSVT 1300 – CTE - Principles of Vascular Technology.**

Three hours credit – ANGELINA COLLEGE.

Introduction to non-invasive vascular technology modalities. Includes 2D imaging, Doppler, plethysmography, and segmental pressures. Emphasis on performing basic venous and arterial imaging and non-imaging exams.

48 class room hours and 48 lab hours.

**Prerequisites: DMSO 2342, DMSO 2351, and DMSO 2366. Corequisites: DMSO 2230, DMSO 1355, and DMSO 2367. Program acceptance required. Lab fee.**

**.5 CREDIT HIGH SCHOOL**

## **EMERGENCY MEDICAL SERVICES**

**Emergency Medical – EMSP 1160 – CTE - Clinical – Emergency Medical Technology/Technician.**

One hour credit – ANGELINA COLLEGE.

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.**

**.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 1261 – CTE – Clinical – Emergency Medical Technology/Technician.**

Two hours credit – ANGELINA COLLEGE.

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.  
128 clinical hours.

**Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, Corequisites: EMSP 2306, EMSP 1338, EMSP 1356and EMSP 2160.**

**.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 1338 – CTE - Introduction to Advance Practice.**

Four hours credit – ANGELINA COLLEGE.

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 classroom hours and 32 laboratory 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.**  
**.5 CREDIT HIGH SCHOOL**

**Emergency Medical –EMSP 1355 – CTE - Trauma Management.**

Three hours credit – ANGELINA COLLEGE.

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 classroom hours and 32 laboratory hours.

**Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 1160, EMSP 1501, EMSP 1261, EMSP 1338, EMSP 1356 and EMSP 2160. EMSP 2306. Corequisites: EMSP 2205 and EMSP 2261.**  
**.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 1356 – CTE - Patient Assessment and Airway Management.**

Three hours credit – ANGELINA COLLEGE.

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 classroom hours and 32 laboratory 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.**  
**.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 1438 – CTE - Introduction to Advanced Practice.**

Four hours credit – ANGELINA COLLEGE.

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 classroom hours and 32 laboratory hours.

**Prerequisites: EMT Basic and Current Provider CPR card, EMSP 1160, EMSP 1501. Corequisites: EMSP 1261, EMSP 1355, EMSP 1356 and EMSP 2160.**  
**.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 1501 – CTE - Emergency Medical Technician – Basic.**

Five hours credit – ANGELINA COLLEGE.

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.

144 classroom and laboratory hours.

**Prerequisite is a Current AHA BLS Provider CPR card. Corequisite is EMSP 1160.**  
**.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 2160 – CTE - Clinical – Emergency Medical Technology/Technician.**

One hour credit – ANGELINA COLLEGE.

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.  
64 clinical hours.

**Prerequisites: EMT Basic and Current AHA BLS Provider CPR card. Corequisites: EMSP 1261, EMSP 1338, EMSP 2306, EMSP 1356.  
.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 2205 – CTE - EMS Operations.**

Two hours credit– ANGELINA COLLEGE.

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.

48 classroom and laboratory hours.

**Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 1261, 1338, 1356, 2306, 2160. Corequisites: EMSP 2261 and EMSP 1355.  
.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 2243 – CTE - Assessment Based Management.**

Two hours credit – ANGELINA COLLEGE.

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.

64 classroom and laboratory hours.

**Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 2544. Corequisites: EMSP 2462, EMSP 2430, EMSP 2434.  
.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 2261 – CTE - Clinical – Emergency Medical Technology/ Technician.**

Two hours credit – ANGELINA COLLEGE.

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 1355.  
.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 2306 – CTE - Emergency Pharmacology.**

Three hours credit – ANGELINA COLLEGE.

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 classroom hours and 32 laboratory hours.

**Prerequisites: EMT Basic and Current Provider CPR card. Corequisites: EMSP 1261, EMSP 1355, EMSP 1338, EMSP 1356 and EMSP 2160.  
.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 2430 – CTE - Special Populations.**

Four hours credit – ANGELINA COLLEGE.

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 such needs, and integrate multiple determinates of special conditions into clinical care.

48 classroom hours and 32 laboratory hours.

**Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 2544. Corequisites: EMSP 2434, 2462 and 2243.  
.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 2434 – CTE - Medical Emergencies.**

Four hours credit – ANGELINA COLLEGE.

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 classroom and 48 laboratory hours.

**Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 2544. Corequisites: EMSP 2430, EMSP 2462 and 2243.  
.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 2462 – CTE - Clinical – Emergency Medical Technology/ Technician.**

Four hours credit – ANGELINA COLLEGE.

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.

256 clinical hours.

**Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 2544. Corequisites: EMSP 2430, 2434 and 2243.  
.5 CREDIT HIGH SCHOOL**

**Emergency Medical – EMSP 2544 – CTE - Cardiology.**

Five hours credit – ANGELINA COLLEGE.

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 laboratory hours.

**Prerequisites: EMT Basic and Current AHA BLS Provider CPR card, EMSP 1355, 2205, 2261. Lab fee.  
.5 CREDIT HIGH SCHOOL**

## **NURSING – RN**

**Nursing – RNSG 1193 – CTE - Special Topics in Registered Nursing/Registered Nurse.**

One credit hour – ANGELINA COLLEGE.

Topics address recently identified current events, skills, knowledges, 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 multiples times to improve student proficiency.

**.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1205 – CTE - Nursing Skills.**

Two hours credit – ANGELINA COLLEGE.

Study of the concepts and principles necessary to perform basic nursing skills for the adult patient and demonstrate competence in the performance of nursing practices and procedures. Content include knowledge, judgment, skills, and professional values within a legal/ethical framework.

16 of lecture and 64 hours of lab experiences.

**Prerequisites: BIOL 2401 and 2402, RNSG 1208, ENGL 1301, PSYCH 2301 or 2314, Corequisite: RNSG 1262 and BIOL 2420. Lab fee.**

**.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1208 – CTE - Dosage Calculations for Nursing.**

Two hours credit – ANGELINA COLLEGE.  
Read, interpret, and solve dosage calculation problems.  
32 classroom hours. 16 lab hours.

**Prerequisite: TSI complete or MATH 0320.  
.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1215 – CTE - Health Assessment.**

Two hours credit – ANGELINA COLLEGE.  
Development of skills and techniques required for a comprehensive nursing health assessment within a legal/ethical framework. 16 classroom and 48 lab hours.

**Prerequisites: BIOL 2401 and 2402, RNSG 1208, ENGL 1301, PSYCH 2301 or 2314.  
Corequisite: RNSG 1262 and BIOL 2420. Lab fee.  
.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1260 – CTE - Clinical Nursing-Transitions.**

Two hours credit – ANGELINA COLLEGE.  
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 2301 & 2314, and a current CPR card. Corequisite: RNSG 1327.  
.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1262 – CTE - Clinical Nursing (Introduction of Nursing Skills, Physical Assessment).**

Two hours credit – ANGELINA COLLEGE.  
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 first year nursing curriculum during the fall semester is required.  
192 clinical hours.

**Prerequisites: BIOL 2401 and 2402, RNSG 1208, ENGL 1301, PSYCH 2301 or 2314 and a current CPR card. Corequisite: RNSG 1309 and BIOL 2420.  
.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1293 – CTE - Special Topics in Registered Nursing/Registered Nurse.**

Two hours credit – ANGELINA COLLEGE.  
Topics address recently identified current events, skills, knowledges, 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 multiples times to improve student proficiency.

**.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1301– CTE - Pharmacology.**

Three hours credit – ANGELINA COLLEGE.  
Introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of each drug classification. Content include the roles and responsibilities of the nurse in safe administration of medications within a legal/ethical framework.  
48 classroom hours.

**Prerequisites: completion of all nursing prerequisite courses, RNSG 1205, 1215, 1309, 1262, and BIOL 2420. Specialty exam fee.  
.5 CREDIT HIGH SCHOOL**

**NURSING – RNSG 1309 - CTE - Introduction to Nursing.**

Three hours credit – ANGELINA COLLEGE.

Overview of nursing and the role of the professional nurse as a provider of patient-centered care, patient safety advocate, member of the health care team, and member of the profession. Content includes knowledge, judgment, skills, and professional values within a legal/ethical framework.  
48 classroom hours.

**Prerequisites: BIOL 2401 and 2402, RNSG 1208, ENGL 1301, PSYC 2301 Corequisites: RNSG 1262 and BIOL 2420. Specialty exam fee.**

**.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1327 – CTE - Transition from Vocational to Professional Nursing.**

Three hours credit – ANGELINA COLLEGE.

Content includes health promotion, expanded assessment, analysis of data, critical thinking skills and systematic problem solving process, pharmacology, multidisciplinary teamwork, communication, and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework throughout the life span.  
48 classroom hours.

**Prerequisites: BIOL 2401, 2402 and 2420, RNSG 1208, ENGL 1301, PSYC 2301 or 2314. Corequisite: RNSG 1260.**

**.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1341 – CTE - Common Concepts of Adult Health.**

Three hours credit – ANGELINA COLLEGE.

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.  
48 classroom hours.

**Prerequisites: RNSG 1205, 1215, 1309 and 1262, BIOL 2420 Corequisites: RNSG 1363. Specialty exam fee.**

**.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1343 – CTE - Complex Concepts of Adult Health.**

Three hours credit – ANGELINA COLLEGE.

Integration of previous knowledge and skills 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 a profession in the care of adult patients and families with complex medical-surgical health care needs associated with body systems. Emphasis on complex knowledge, judgment, skills, and professional values within a legal/ethical framework.  
48 classroom hours.

**Prerequisites: RNSG 1341, 1363, and 1301, Psych 2314. Corequisite: RNSG 2360.**

**.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1363- CTE - Clinical Nursing (Common Concepts Of Adult Health).**

Three hours credit – ANGELINA COLLEGE.

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 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 1341.**

**.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 1393 – CTE - Special Topics in Registered Nursing/Registered Nurse.**

Three credit hours – ANGELINA COLLEGE.

Topics address recently identified current events, skills, knowledges, 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.

**.5 CREDIT HIGH SCHOOL**



**Nursing – RNSG 1412 – CTE - Nursing Care Of The Childbearing And Childrearing Families.**

Four hours credit – ANGELINA COLLEGE.

Study of the concepts related to the provision of nursing care for childbearing and childrearing families; application of systematic problem-solving processes and critical thinking skills, including a focus on the childbearing family during the perinatal periods and the childbearing family from birth to adolescence; and competency in knowledge, judgment, skill, and professional values within a legal/ethical framework. 80 classroom and 16 lab hours.

**Prerequisites: RNSG 1262, 1341, 1301, 1363  
Corequisites: RNSG 2360. Lab fee. Specialty exam fee.  
.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 2130 – CTE - Professional Nursing Review And Licensure Preparation.** (Capstone Course)

One hour credit – ANGELINA COLLEGE.

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 classroom hours.

**Prerequisites: RNSG 1343, 1412, 2360.  
Corequisite: none. Specialty exam fee.  
.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 2213 – CTE - Mental Health Nursing.**

Two hours credit – ANGELINA COLLEGE.

Principles and concepts of mental health, psychopathology, and treatment modalities related to the nursing care of patients and their families. 48 classroom hours.

**Prerequisites: RNSG 1343, 1412, and 2360.  
Corequisite: RNSG 2363. Specialty exam fee.  
.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 2331 – CTE - Advanced Concepts Of Adult Health.**

Three hours credit – ANGELINA COLLEGE.

Application of advanced concepts and skills for the development of the professional nurse's roles with adult patients and families involving multiple body systems. Emphasis on advanced knowledge, judgment, skills, and professional values within a legal/ethical framework. 48 classroom hours.

**Prerequisites: RNSG 1343, 1412, and 2360.  
Corequisites: RNSG 2363. Specialty exam fee.  
.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 2360 – CTE - Clinical Nursing.**

Three hours credit – ANGELINA COLLEGE.

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, and 1301; a current CPR card. Corequisites: RNSG 1343, and 1412.  
.5 CREDIT HIGH SCHOOL**

**Nursing – RNSG 2363 – CTE - Clinical Nursing (Advanced Concepts Of Adult Health/Mental Health Nursing).**

Three hours credit – ANGELINA COLLEGE.

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 2331, and 2313.  
.5 CREDIT HIGH SCHOOL**

## PHARMACY TECHNOLOGY

### Pharmacy Technology – PHRA 1102 – CTE - Pharmacy Law.

One hour credit – ANGELINA COLLEGE.

Overview of federal and state laws governing the practice of pharmacy. The legal and ethical constraints governing pharmacy technician and pharmacist responsibilities in practice settings.  
16 classroom hours.

**Corequisites: PHRA 1313, 1305, 1301, 1266, 1309 and BIOL 1408 (or higher level biology course).**

**.5 CREDIT HIGH SCHOOL**

### Pharmacy Technology – PHRA 1266 – CTE - Practicum I – Pharmacy Technician/Assistant.

Two hours credit – ANGELINA COLLEGE.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college and student. A health practicum is an unpaid learning experience.  
240 practicum hours.

**Corequisites: PHRA 1102, 1313, 1305, 1301, 1309, and BIOL 1408 (or higher level biology course). Lab fee.**

**.5 CREDIT HIGH SCHOOL**

### Pharmacy Technology – PHRA 1301 – CTE - Introduction to Pharmacy.

Three hours credit – ANGELINA COLLEGE.

An overview of the qualifications, operational guidelines, and job duties of a pharmacy technician.  
48 classroom hours.

**Corequisites: PHRA 1102, 1313, 1305, 1266, 1309, and BIOL 1408 (or higher level biology course).**

**.5 CREDIT HIGH SCHOOL**

### Pharmacy Technology – PHRA 1305 – CTE - Drug Classification.

Three hours credit – ANGELINA COLLEGE.

A study of disease processes, pharmaceutical drugs, abbreviations, classifications, dosages, actions in the body, and routes of administration.  
48 class-room hours.

**Corequisites: PHRA 1102, 1313, 1266, 1301, 1309 and BIOL 1408 (pending approval or higher level biology course).**

**.5 CREDIT HIGH SCHOOL**

### Pharmacy Technology – PHRA 1309 – CTE - Pharmaceutical Mathematics I.

Three hours credit – ANGELINA COLLEGE.

Pharmaceutical mathematics including reading, interpreting and solving calculation problems encountered in the preparation and distribution of drugs.  
48 classroom hours.

**Corequisites: PHRA 1102, 1313, 1305, 1301, 1266 and BIOL 1408 (or higher level biology course). Lab fee.**

**.5 CREDIT HIGH SCHOOL**

### Pharmacy Technology – PHRA 1313 – CTE - Community Pharmacy Practice.

Three hours credit – ANGELINA COLLEGE.

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.  
64 classroom hours.

**Corequisites: PHRA 1102, 1305, 1309, 1266, 1301 and BIOL1408 (or higher level biology course). Lab fee.**

**.5 CREDIT HIGH SCHOOL**

**Pharmacy Technology – PHRA 1345 – CTE - Compounding Sterile Preparations.**

Three hours credit – ANGELINA COLLEGE.

The process of compounding sterile preparations and aseptic technique within legal and regulatory guidelines specified by USP <797> standards.

32 classroom and 32 lab hours.

**Prerequisites: PHRA 1313, 1305, 1301, 1266, 1309, and BIOL 1408 (or higher level biology course). Prerequisites: PHRA 1102, 1313, 1305, 1301, 1266, 1309, and BIOL 1408 (or higher level biology course). Corequisites: PHRA 1349, 1441 and 2366. Lab fee.**

**.5 CREDIT HIGH SCHOOL**

**Pharmacy Technology – PHRA 1349 – CTE - Institutional Pharmacy Practice.**

Three hours credit – ANGELINA COLLEGE.

Fundamentals of the diverse roles and practice of pharmacy technicians in an institutional pharmacy setting. In-depth coverage of hospital pharmacy organization, work flow and personnel, medical and pharmaceutical terminology, safety techniques, data entry, packaging and labeling operations, pharmaceutical compounding, inpatient drug distribution systems, continuous quality improvement, and inventory control.

48 classroom hours.

**Prerequisites: PHRA 1102, 1313, 1305, 1301, 1266, 1309 and BIOL 1408 (or higher level biology course). Corequisites: PHRA 1345, 1441, and 2366. Lab fee.**

**.5 CREDIT HIGH SCHOOL**

**Pharmacy Technology – PHRA 1441 – CTE - Pharmacy Drug Therapy and Treatment.**

Four hours credit – ANGELINA COLLEGE.

Study of therapeutic agents, their classifications, properties, actions, and effects on the human body and their role in the management of disease.

80 classroom hours. Lab fee.

**Prerequisites: PHRA 1313, 1305, 1301, 1266, 1309, and BIOL 1408 (or higher level biology course). Corequisites: PHRA 1345, 1102, 1349, and 2366.**

**.5 CREDIT HIGH SCHOOL**

**Pharmacy Technology – PHRA 2366 – CTE - Practicum II – Pharmacy Technician.**

Three hours credit – ANGELINA COLLEGE.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college and student.

360 practicum hours.

**Prerequisites: PHRA 1305, 1301, 1266, 1309, 1313, and BIOL 1408 (or higher level biology course). Corequisites: PHRA 1345, 1413, 1349, 1441, and 1102.**

**.5 CREDIT HIGH SCHOOL**

## **RADIOLOGIC TECHNOLOGY**

**Radiography – RADR 1201 – CTE - Introduction to Radiography.**

Two hours credit – ANGELINA COLLEGE.

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 classroom hours.

**Corequisites: RADR 1203. Lab fee.**

**.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 1203 – CTE - Patient Care.**

Two hours credit – ANGELINA COLLEGE.

An introduction in patient assessment, infection control procedures, emergency and safety procedures, communication, and patient interaction skills, and basic pharmacology.

32 classroom hours.

**Corequisite: RADR 1201. Lab fee.  
.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 1266 – CTE - Practicum (or Field Experience) – Radiologic Technology/ Science – Radiographer.**

Two hours credit – ANGELINA COLLEGE.

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. Lab fee.  
Program acceptance required.  
.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 1267 – CTE - Practicum (or Field Experience) – Radiologic Technology/ Science – Radiographer.**

Two hours credit – ANGELINA COLLEGE.

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. Lab fee. Program acceptance required.  
.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 1302 – CTE – Radiographic Image Evaluation I.**

Three hours credit – ANGELINA COLLEGE.

Scientific process of radiographic image evaluation.

48 classroom hours and 16 lab hours. Lab fee.

**Prerequisites: RADR 2266.  
.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 1313 – CTE - Principles of Radiographic Imaging I.**

Three hours credit – ANGELINA COLLEGE.

Radiographic image quality and the effects of exposure variables.

32 classroom and 16 laboratory hours. Lab fee.

**Prerequisites: RADR 1201 and 1203.  
Corequisite: RADR 1411 and RADR 2309.  
Program acceptance required.  
.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 1391 – CTE - Special Topics in Medical Radiologic Technology/Technician.**

Three hours credit – ANGELINA COLLEGE.

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 classroom hours. Lab fee.

**Prerequisites: RADR 2313, 1302, and 2366.  
Corequisite: RADR 2335.  
Program acceptance required.  
.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 1411 – CTE - Basic Radiographic Procedures.**

Four hours credit – ANGELINA COLLEGE.

An introduction to radiographic positioning terminology, proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy.

48 classroom and 64 lab hours. Lab fee.

**Prerequisites: RADR 1201 and 1203.  
Program acceptance required.  
.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 2266 – CTE - Practicum (or Field Experience) – Radiologic Technology/ Science Radiographer.**

Two hours credit – ANGELINA COLLEGE.

Practical, general workplace training supported by and individualized learning plan developed by the employer, college, and student.  
228 clinical hours. Lab fee.

**Prerequisites: RADR 1267, 2401, 2305 and 2333.**  
**Program acceptance required.**  
**.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 2305 – CTE - Principles of Radiographic Imaging II.**

Three hours credit – ANGELINA COLLEGE.  
Radiographic image quality and the effects of exposure variables, and the synthesis of all variables in image production.  
32 classroom and 16 laboratory hours. Lab fee.

**Prerequisites: RADR 1313, 1411, and 2309.**  
**Program acceptance required.**  
**.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 2309 – CTE - Radiographic Imaging Equipment.**

Three hours credit – ANGELINA COLLEGE.  
Equipment and physics of x-ray production. Includes basic x-ray circuits. Also examines the relationship of conventional and digital equipment components of the imaging process.  
48 classroom hours. Lab fee.

**Prerequisites: RADR 1201 and 1203.**  
**Corequisites: RADR 1411 and RADR 1313.**  
**Program acceptance required.**  
**.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 2313 – CTE - Radiation Biology and Protection.**

Three hours credit – ANGELINA COLLEGE.  
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 classroom hours. . Lab fee.

**Prerequisites: RADR 1313, 2266, 2305, 2309, 2333, and 2401**  
**Program acceptance required.**  
**.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 2333 – CTE - Advanced Medical Imaging.**

Three hours credit – ANGELINA COLLEGE.  
Specialized imaging modalities. Includes concepts and theories of equipment operations and their integration for medical diagnosis.  
48 classroom hours. Lab fee.

**Prerequisite: RADR 1313, 1411, and 2309.**  
**Program acceptance required.**  
**.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 2335 – CTE - Radiologic Technology Seminar.**

Three hours credit – ANGELINA COLLEGE.  
A capstone course focusing on the synthesis of professional knowledge, skills and attitudes in preparation for professional employment and lifelong learning.  
48 classroom hours. Lab fee.

**Prerequisites: RADR 2313, 1302 and 2366.**  
**Corequisite: RADR 1391.**  
**Program acceptance required.**  
**.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 2366 – CTE - Practicum – Radiologic Technology/Science – Radiographer.**

Three hours credit – ANGELINA COLLEGE.  
Practical, general workplace training supported by an individualized learning plan developed by the employer, college and student.  
384 clinical hours. Lab fee.

**Prerequisite: RADR 2266.**  
**Program acceptance required.**  
**.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 2367 – CTE - Practicum – Radiologic Technology/Science – Radiographer.**

Three hours credit – ANGELINA COLLEGE.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college and student.

384 clinical hours. Lab fee.

**Prerequisite: RADR 2366.**

**Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

**Radiography – RADR 2401 – CTE - Intermediate Radiographic Procedures.**

Four hours credit – ANGELINA COLLEGE.

A continuation of the study of the proper manipulation of radiographic equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for demonstration of anatomy.

48 classroom and 64 lab hours. Lab fee.

**Prerequisite: RADR 1201, 1266, 1313, 1411, and 2309.**

**Program acceptance required.**

**.5 CREDIT HIGH SCHOOL**

## **Respiratory Care**

**Respiratory Care – RSPT 1201 – CTE - Introduction to Respiratory Care.**

Two hours credit – ANGELINA COLLEGE.

An introduction to the field of respiratory care. Outline the history of the respiratory care profession; outline the organization and function of hospital departments; describe issues in medical malpractice and ethics; identify the respiratory therapists' role in performing basic vital signs, body mechanics, and cardiopulmonary assessment; and describe infection control techniques.

**.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 1227 – CTE - Applied Physics / Chemistry for Respiratory Care**

Two hours credit – ANGELINA COLLEGE.

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. Describe the basic principles of mechanics, gas laws, fluid dynamics, and thermal dynamics; and relate the laws of physics as well as the chemistry of ABGs used in therapeutic procedures and diagnostic tests to respiratory care.

**.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 1261 – CTE - Respiratory Care Clinical III.**

Two hours credit – ANGELINA COLLEGE.

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.

192 clinical hours. Lab fee.

**Prerequisites: RSPT 2210, 2314, 1411, and 1362. Corequisite: RSPT 2353.**

**.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 1340 – CTE - Advanced Cardiopulmonary Anatomy And Physiology.**

Three hours credit – ANGELINA COLLEGE.

Provides an advanced presentation of anatomy and physiology of the cardiovascular and pulmonary systems. Explain advanced concepts of cardiopulmonary ventilation/perfusion concepts; and summarize principles of gas transport.

60 classroom hours.

**Corequisites: RSPT 2317, 1410, and 1361.**

**.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 1361 – CTE – Respiratory Care Clinical I.**

Two hours credit – ANGELINA COLLEGE.

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. Lab fee.

**Corequisites: RSPT 2317, 1340, and 1410.**

**.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 1362 – CTE – Respiratory Care Clinical II.**

Two hours credit – ANGELINA COLLEGE.

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. Lab fee.

**Prerequisites: RSPT 2317, 1340, 1410 and 1361. Corequisite: RSPT 2210, 2314 and 1411.  
.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 1410 – CTE - Respiratory Care Procedures I.**

Four hours credit – ANGELINA COLLEGE.

Essential knowledge of the equipment and techniques used in the treatment of pulmonary disease. Utilize respiratory care equipment; perform therapeutic procedures including oxygen therapy, humidity and aerosol therapy, lung expansion therapy, bronchial hygiene therapy, and pulse oximetry; recommend modification therapy and maintain patient records.

34 classroom and 51 lab hours. (Total of 85 contact hours) Lab fee.

**Corequisites: RSPT 2317, 1340 and 1361.  
.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 1411 – CTE - Respiratory Care Procedures II.**

Four hours credit – ANGELINA COLLEGE.

Develops essential knowledge and skills of airway care and mechanical ventilation. Set up equipment; conduct airway care; initiate mechanical ventilation; troubleshoot equipment; maintain patient records and communicate relevant information to members of the health care team.

34 classroom and 51 lab hours. (Total of 85 contact hours) Lab fee.

**Prerequisites: RSPT 2317, 1340, 1410, and 1361. Corequisites: RSPT 2210, 2314, and 1362.  
.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 2210 – CTE - Cardiopulmonary Disease.**

Two hours credit – ANGELINA COLLEGE.

Etiology, pathogenesis, pathology, diagnosis, history, prognosis, manifestations, treatment, and detection of cardiopulmonary diseases. Analyze the etiology, pathophysiology, clinical manifestations, and management of cardiopulmonary disorders; and compare cardiopulmonary disorders.

34 classroom hours.

**Prerequisites: RSPT 2317, 1340, 1410 and 1361. Corequisites: RSPT 2314, 1411 and 1362.  
.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 2230 – CTE - Respiratory Care Exam Preparation.**

Two hours credit – ANGELINA COLLEGE.

A comprehensive review to optimize respiratory care credentialing exam success. Recall, apply, and analyze concepts and theories in respiratory therapy.

52 classroom hours.

**Perquisites: RSPT 2255, 2305 and 2361,  
Corequisites RSPT 2131 and 2362.  
.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 2231 – CTE - Respiratory Care Case Simulations.**

One hour credit – ANGELINA COLLEGE.

Theory of clinical simulation examinations. Includes construction types, scoring, and mechanics of taking the computerized simulation examination. Utilize clinical simulations to enhance information gathering and decision making skills.

34 classroom hours.

**Prerequisites: RSPT 2255, 2305 and 2361. Co requisites: RSPT 2230, and 2362.  
.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 2255 – CTE - Critical Care Monitoring.**

Three hours credit – ANGELINA COLLEGE.

Advanced monitoring techniques used to assess a patient in the critical care setting. Describe the principles/techniques involved in critical care monitoring; interpret patient data; and apply data to evaluate cardiopulmonary disorders.

48 classroom hours.

**Prerequisites: RSPT 2353 and 1261. Co  
requisites: RSPT 2305 and 2361.  
.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 2305 – CTE - Pulmonary Diagnostics.**

Three hours credit – ANGELINA COLLEGE.

The theories and techniques involved in pulmonary function testing, blood gas theory and analysis, quality control. Explain pulmonary function testing; interpret pulmonary function test results; describe principles/concepts involved in blood gas analysis; analyze quality control data for pulmonary function and blood gas equipment.

48 classroom hours.

**Prerequisites: RSPT 1227, 1340, 1410, and  
1361. Corequisites: RSPT 1137, 2255, and  
2361.**

**.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 2314 – CTE - Mechanical Ventilation.**

Three hours credit – ANGELINA COLLEGE.

The study of mechanical ventilation with emphasis on ventilator classification, methods, principles, and operational characteristics. Describe procedures for mechanical ventilation as related to spontaneous and artificial ventilation with emphasis on ventilator classification, methods, principles, and operational characteristics; explain indications; complications, and physiologic effects/principles of mechanical ventilation; and apply initiation, management and weaning of ventilator support.

64 classroom hours.

**Prerequisites: RSPT 2317, 1340, 1410, and  
1361. Corequisites: RSPT 2210, 1411, and  
1362.**

**.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 2317 – CTE - Respiratory Care Pharmacology.**

Three hours credit – ANGELINA COLLEGE.

A study of drugs that affect cardiopulmonary systems. Emphasis on classification, route of administration, dosages/calculations, and physiological interactions. Explain the mode of action, clinical indications, dosages, hazards and side effects of pulmonary and cardiovascular drugs; calculate drug dosages; and select drugs for optimal therapeutic benefits.

48 classroom hours.

**Corequisites: RSPT 1340, 1410, and 1361.  
.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 2353 – CTE - Neonatal and pediatric cardiopulmonary Care.**

Three hours credit – ANGELINA COLLEGE.

A study of neonatal/pediatric cardiopulmonary care. Describe fetal development and transition to extrauterine life; assess maternal and fetal history; modify therapy to neonatal pediatric patients; describe the etiology, pathophysiology, clinical manifestations and management of neonatal/pediatric disorders; and analyze, interpret and apply patient data in selective patient care settings.

48 classroom hours.

**Prerequisites: RSPT 2210, 2314, 1411 and  
1362. Corequisite: RSPT 1261.**

**.5 CREDIT HIGH SCHOOL**

**Respiratory Care – RSPT 2361 – CTE - Respiratory Care Clinical IV.**

Three hours credit – ANGELINA COLLEGE.

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. Lab fee.

**Prerequisites: RSPT 2353 and 1261.  
Corequisites: RSPT 1102, 2255 and 2305.**

**.5 CREDIT HIGH SCHOOL**



**Respiratory Care – RSPT 2362 – CTE - Respiratory Care Clinical V.**

Three hours credit – ANGELINA COLLEGE.

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. Lab fee.

**Prerequisites: RSPT 2255, 2305 and 2361. Co  
requisites: RSPT 2131, and 2230.  
.5 CREDIT HIGH SCHOOL**

## SURGICAL TECHNOLOGY

**Surgical Technology – SRGT 1260 – CTE - Clinical-Surgical Technology/Technologist I.**

Two hours credit – ANGELINA COLLEGE.

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: Current CPR card, BIOL 2401,  
HITT 1305, STSU 0X00 SRGT 1405, 1409,  
1441, & 1260. Corequisites: SRGT 2460 and  
2130.**

**.5 CREDIT HIGH SCHOOL**

**Surgical Technology – SRGT 1360 – CTE - Clinical-Surgical Technology/ Technologist II.**

Three hours credit – ANGELINA COLLEGE.

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.  
192 clinical hours.

**Prerequisites: Current CPR card, BIOL 2401  
2402, HITT 1305, STSU 0X00, BIOL 2402,  
SRGT 1405, and SRGT 1409. Corequisites:  
SRGT 2460 and 2130. Pre-requisites: SRGT  
1441 and 1260.**

**.5 CREDIT HIGH SCHOOL**

**Surgical Technology – SRGT 1405 – CTE - Introduction to Surgical Technology.**

Four hours credit – ANGELINA COLLEGE.

Introduction to surgical technology theory, surgical pharmacology and anesthesia, technological sciences, and patient care concepts.  
48 classroom and 48 laboratory hours. Lab fee.

**Prerequisites: Current CPR card, BIOL 2401,  
HITT 1305, STSU 0X00. Corequisites: BIOL  
2402, SRGT 1409 and SRGT 1441.**

**.5 CREDIT HIGH SCHOOL**

**Surgical Technology – SRGT 1409 – CTE - Fundamentals of Perioperative Concepts and Techniques.**

Four hours credit – ANGELINA COLLEGE.

In-depth coverage of perioperative concepts such as aseptic/sterile principles and practices, infectious processes, wound healing, and creation and maintenance of the sterile field.  
48 classroom and 64 laboratory hours. Lab fee.

**Prerequisites: Current CPR card, BIOL 2401,  
HITT 1305, STSU 000. Corequisites: BIOL  
2402, SRGT 1405 and SRGT 1441.**

**.5 CREDIT HIGH SCHOOL**

**Surgical Technology – SRGT 1441 – CTE - Surgical Procedures I.**

Four hours credit – ANGELINA COLLEGE.

Introduction to surgical procedures and related pathologies. Emphasis on surgical procedures related to general, obstetrics/gynecology, genitourinary, otorhinolaryngology and orthopedic surgical specialties incorporating instruments, equipment, and supplies required for perioperative patient care.  
48 classroom and 64 laboratory hours. Lab fee.

**Prerequisites: Current CPR card, BIOL 2401, HITT 1305, STSU 0X00. Corequisites: BIOL 2402, SRGT 1405 and 1409.  
.5 CREDIT HIGH SCHOOL**

**Surgical Technology – SRGT 1442 – CTE - Surgical Procedures II.**

Four hours credit – ANGELINA COLLEGE.

Introduction to surgical procedures and related pathologies. Emphasis on surgical procedures related to thoracic, peripheral vascular, plastic/reconstructive, ophthalmology, cardiac, and neurological surgical specialties incorporating instruments, equipment, and supplies required for perioperative patient care. 48 classroom and 64 laboratory hours. Lab fee.

**Prerequisites: Current CPR card, BIOL 2401 & 2402, HITT 1305, STSU 0X00, SRGT 1260, 1405, 1409, & 1441. Corequisites: SRGT 1260.  
.5 CREDIT HIGH SCHOOL**

**Surgical Technology – SRGT 2130 – CTE - Professional Readiness.**

One hour credit – ANGELINA COLLEGE.

Transition into the professional role of the surgical technologist. Includes professional readiness for employment, attaining certification, and maintaining certification status. *A capstone experience.*

**Prerequisites: Current CPR card, BIOL 2401 & 2402, HITT 1305, STSU 0X00, SRGT 1260, 1405, 1409, 1441, & 1442. Corequisites: SRGT 1360 & 2460, PSYC 2301.  
.5 CREDIT HIGH SCHOOL**

**Surgical Technology – SRGT 2460 – CTE - Clinical-Surgical Technology/Technologist III.**

Four hours credit – ANGELINA COLLEGE.

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. 288 clinical hours.

**Prerequisites: Current CPR card, BIOL 2401 & 2402, HITT 1305, STSU 000, SRGT 1405, 1409, 1441, 1260, & 1442. Corequisites: SRGT 1442, SRGT 1360, SRGT 2130 and PSYC 2301.  
.5 CREDIT HIGH SCHOOL**

## NURSING –VN

**Vocational Nursing – VNSG 1219 – CTE - Professional Development.**

Two hours credit – ANGELINA COLLEGE.

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 classroom hours. Lab fee. Specialty exam fee.

**Prerequisites: VNSG 1226, 1330, 1331, 1362, and 1429. Corequisites: VNSG 1238, 1334, 1432, and 1363.  
.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1226 – CTE - Gerontology.**

Two hours credit – ANGELINA COLLEGE.

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 classroom hours.

**Corequisites: VNSG 1304, 1405, 1423, and 1361.  
.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1238 – CTE - Mental Illness.**

Two hours credit – ANGELINA COLLEGE.

Study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process. 32 classroom hours. Lab fee. Specialty exam fee.

**Prerequisites: VNSG 1330, 1331, 1362 and 1429. Corequisites: VNSG 1219, 1334, 1432, and 1363.**

**.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1304 – CTE - Foundations Of Nursing.**

Three hours credit – ANGELINA COLLEGE.

A study of the biological, psychological, and sociological concepts applicable to basic needs of the family relating to childbearing and neonatal care. Utilization of the nursing process in the assessment and management of the child bearing family. Topics include physiological changes related to pregnancy, fetal development, and nursing care of the family during labor and delivery and the puerperium.

48 classroom hours. Lab fee. Specialty exam fee.

**Prerequisites: VNSG 1226, 1304, 1361, 1405 and 1423.**

**Corequisites: VNSG 1133, 1136, 1331, 1362, and 1429.**

**.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1330 – CTE - Maternal/Newborn Nursing.**

Three hours credit – ANGELINA COLLEGE.

A study of the biological, psychological, and sociological concepts applicable to basic needs of the family relating to childbearing and neonatal care. Utilization of the nursing process in the assessment and management of the child bearing family. Topics include physiological changes related to pregnancy, fetal development, and nursing care of the family during labor and delivery and the puerperium.

48 classroom hours. Lab fee. Specialty exam fee.

**Prerequisites: VNSG 1226, 1304, 1361, 1405 and 1423. Corequisites: VNSG 1133, 1136, 1331, 1362, and 1429.**

**.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1331 – CTE - Pharmacology.**

Three hours credit – ANGELINA COLLEGE.

Fundamentals of medications and their diagnostic, therapeutic and curative effects. Includes nursing interventions utilizing the nursing process.

48 classroom hours. Lab fee. Specialty exam fee.

**Prerequisites: VNSG 1238, 1304, 1361, 1405, and 1423. Corequisites: VNSG 1330, 1331, 1362, and 1429.**

**.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1334 – CTE - Pediatric Nursing.**

Three hours credit – ANGELINA COLLEGE.

Study of the care of the pediatric patient and family during health and disease. Emphasis on growth and development needs. 48 classroom hours. Lab fee. Specialty exam fee.

**Prerequisites: VNSG 1331, 1429, 1306, and 1362. Corequisites: VNSG 1219, 1432, and 1363.**

**.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1360 – CTE - Clinical Nursing.**

Three hours credit – ANGELINA COLLEGE.

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: VNSG 1341, 1262, 1263, and current CPR card. Corequisite: VNSG 1570.**

**.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1361 – CTE - Clinical Nursing.**

Three hours credit – ANGELINA COLLEGE.

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. Jasper campus. 288 clinical hours.

**Prerequisite: A current CPR card.  
Corequisites: VNSG 1570.  
.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1362 – CTE - Clinical Nursing.**

Three hours credit – ANGELINA COLLEGE.

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.

288 clinical hours.

**Prerequisites: VNSG 1304, 1405, 1423, 1361 and a current CPR card. Corequisites: VNSG 1226, 1331, 1429, and 1330.  
.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1363 – CTE - Clinical Nursing.**

Three hours credit – ANGELINA COLLEGE.

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.

288 clinical hours.

**Prerequisites: VNSG 1331, 1330, 1429, and 1362. Corequisites: VNSG 1219, 1238, 1334, and 1432.  
.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1405 – CTE – Health Science.**

Four hours credit – ANGELINA COLLEGE.

An introduction to the general principles of anatomy and physiology, nutrition, and microbiology that are necessary for understanding body processes and basic principles underlying health promotion and therapeutic interventions.

64 classroom hours.

**Corequisites: VNSG 1226, 1361, 1423, and 1304.  
.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1423 – CTE - Basic Nursing Skills.**

Four hours credit – ANGELINA COLLEGE.

Mastery of basic nursing skills and competencies for a variety of health care settings. Using the nursing process as the foundation for all nursing interventions.

80 classroom hours.

**Corequisites: VNSG 1133, 1136, 1304, 1361, and 1405. Lab fee.  
.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1429 – CTE - Medical-Surgical Nursing I.**

Four hours credit – ANGELINA COLLEGE.

Application of the nursing process to the care of adult patients experiencing medical-surgical conditions in the health-illness continuum in a variety of health care settings.

64 classroom hours. Prerequisites: VNSG 1226, 1304, 1423, 1361, and 1405.

**Corequisites: VNSG 1330, 1331, and 1362.  
.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1432 – CTE - Medical-Surgical Nursing II.**

Four hours credit – ANGELINA COLLEGE.

Continuation of Medical-Surgical Nursing I with application of the nursing process to the care of adult patients experiencing medical-surgical conditions along the health-illness continuum in a variety of health care settings.

64 classroom hours. Lab fee. Specialty exam fee.

**Prerequisites: VNSG 1226, 1330, 1331, 1362, and 1429. Corequisites: VNSG 1219, 1238, 1307, and 1363.**

**.5 CREDIT HIGH SCHOOL**

**Vocational Nursing – VNSG 1570 – CTE - Exit to Vocational Nursing Practice.**

Five hours credit – ANGELINA COLLEGE.

Delineates the professional role, accountability, and responsibilities of the vocational nurse. Explores the bio-psycho-social-spiritual aspects of clients through-out the life cycle. Emphasizes the vocational nurse's role in maternal/child nursing.

**Prerequisites: VNSG 1301, 1341, 1363, and a current CPR card. Corequisites: VNSG 1360.  
.5 CREDIT HIGH SCHOOL**

**Social/Behavioral Sciences and Business Division**

**Areas of Concentration**

Academic Areas: Government, History, Psychology, and Sociology.

These courses are a part of the AA and AS core requirements.

**Business Division**

Computer Information Systems

General Business Leading to a BBA Management Development (and Marketing and Small Business)

Office Administration

Real Estate

**Accounting – ACCT 2302 – CTE - Principles of Accounting II.**

Three hours credit – ANGELINA COLLEGE.

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. Three lecture hours each week.

**Prerequisite: ACCT 2301 or equivalent.  
.5 CREDIT HIGH SCHOOL**

**Accounting – ACNT 1303 - CTE - Introduction to Accounting I.**

Three hours credit – ANGELINA COLLEGE.

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 in Science or B.B.A. degree.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Accounting – ACNT 1304 - CTE - Introduction to Accounting II.**

Three hours credit – ANGELINA COLLEGE.

A study of accounting for merchandizing, notes payable, notes receivable, valuation of receivables and equipment and valuation of inventories in a manual and computerized environment. Does not meet requirements for Associate in Science or a B.B.A. degree.

Three lecture hours each week.

**Prerequisites: ACNT 1303.  
.5 CREDIT HIGH SCHOOL**

**Accounting – ACNT 1311 - CTE - Introduction to Computerized Accounting.**

Three hours credit – ANGELINA COLLEGE.

Introduction to utilizing the computer in maintaining accounting records, making management decisions, and processing common business applications with primary emphasis on a general ledger package.

Three lecture hours each week. Lab fee. Taught in fall semester only.

**Prerequisite: ACCT 2301 or equivalent plus typing skills.  
.5 CREDIT HIGH SCHOOL**

**Accounting – ACNT 1331 - CTE - Federal Income Tax for Individuals.**

Three hours credit – ANGELINA COLLEGE.  
Laws currently implemented by the IRS preparing taxes for the individual.  
Three lecture hours each week. Taught in Fall semester only. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Accounting – ACNT 2309 - CTE - Cost Accounting.**

Three hours credit – ANGELINA COLLEGE.  
A study of budgeting and cost control systems including a detailed study of manufacturing cost accounts and reports, job order costing, and process costing. Includes introduction to alternative costing methods such as activity-based and just-in-time costing.  
Three lecture hours each week. Taught in spring semester only.

**Prerequisite: ACCT 2301 and ACCT 2302 or equivalent.**

**.5 CREDIT HIGH SCHOOL**

**Accounting – ACNT 2488 - CTE - CTE - Accounting Internship.**

Four hours credit – ANGELINA COLLEGE.  
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.  
Taught in the Spring semester only.

**Prerequisite: ACCT 2301. Capstone course.**

**.5 CREDIT HIGH SCHOOL**

**Business – BUSI 1301 - CTE - Business Principles.**

Three hours credit – ANGELINA COLLEGE.  
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.  
Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Business – HECO 1307 - CTE - Personal Finance.**

Three hours credit – ANGELINA COLLEGE.  
Personal and family accounts, budgets and budgetary control, bank accounts, charge accounts, borrowing, investing, insurance, standards of living, renting or home ownership, and wills and trusts.  
Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Business – BUSG 1191 - CTE - Special Topics in Business Administration and Management, General, (SIFE).**

One hour credit – ANGELINA COLLEGE.  
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. May be repeated for credit.

**.5 CREDIT HIGH SCHOOL**

**Business – BUSI 2304 – CTE - Business Report Writing and Correspondence.**

Three hours credit – ANGELINA COLLEGE.  
Theory and applications for technical reports and correspondence in business. Includes oral component.  
Three lecture/lab hours each week. Lab fee. This is a capstone experience.

**Prerequisite: ENGL 1301.**

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – INEW 2330 – CTE - Comprehensive Software Project: Planning & Design.**

Three hours credit – ANGELINA COLLEGE.  
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.

Three lecture and one lab hour each week. Lab fee.

**Prerequisite: ITSE 1350. Lab fee.  
.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – INEW 2332 - CTE - Comprehensive Software Project: Coding, Testing, And Implementation.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture and one lab hour each week. Lab fee.

**Prerequisite: INEW 2330.  
.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITNW 1325 – CTE - Fundamentals of Networking Technologies.**

Three hours credit – ANGELINA COLLEGE.

Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.

Three lecture and one lab hour each week. Lab fee.

**Prerequisites: Satisfy Business Division guidelines. See Division Director.  
.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITNW 1408 – CTE - Implementing And Supporting Client Operating Systems.**

Four hours credit – ANGELINA COLLEGE.

The fundamentals of managing and configuring network clients.

Four lecture hours and one lab hour each week. Lab fee.

**Prerequisite: ITNW 1325 or approval of Division Director.  
.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITNW 1445 – CTE - Implementing Network Directory Services.**

Four hours credit – ANGELINA COLLEGE.

In-depth coverage of the skills necessary to install, configure, and administer Network Directory service.

Four lecture hours and one lab hour each week. Lab fee.

**Prerequisite: ITNW 1454 or approval of Division Director.  
.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITNW 1453 – CTE - Supporting Network Server Infrastructure.**

Four hours credit – ANGELINA COLLEGE.

Installing, configuring, managing, and supporting a network infrastructure.

Four lecture hours and one lab hour each week. Lab fee.

**Prerequisite: ITNW 1454 or approval of Division Director.  
.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITNW 1454 – CTE - Implementing and Supporting Servers.**

Four hours credit – ANGELINA COLLEGE.

Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment. Four lecture hours and one lab hour each week. Lab fee.

**Prerequisite: ITNW 1408 or approval of Division Director.  
.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITNW 2354 – CTE - Internet/Intranet Server.**

Three hours credit – ANGELINA COLLEGE.

Advanced concepts in the designing, installing, and administration of an Internet/Intranet server.

Prerequisite: ITNW 1453 or approval of Division Director.

Three lecture hours and one lab hour each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITNW 2411 – CTE - Implementing Mail Servers.**

Four hours credit – ANGELINA COLLEGE.  
An in-depth study of electronic messaging using mail servers.  
Prerequisite: ITNW 1445 or approval of Division Director.  
Three lecture and two lab hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITNW 2452 – CTE - Administering SQL Server.**

Four hours credit – ANGELINA COLLEGE.  
Administering SQL Server is a skills development course in the installation, configuration, administration, and troubleshooting of SQL Servers client/server database management system version.  
Three lecture and two lab hours each week. Lab fee.

**Prerequisite: ITNW 1445 or approval of Division Director.**

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITSC 1307 – CTE - Unix Operating System 1.**

Three hours credit – ANGELINA COLLEGE.  
Introduction to the UNIX operating system including multi-user concepts, terminal emulation, use of system editor, basic UNIX commands, and writing script files. Includes introductory systems management concepts.  
Three lecture and one lab hour each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITSC 2339 – CTE - Personal Computer Help Desk Support.**

Three hours credit – ANGELINA COLLEGE.  
Diagnosis and solution of user hardware and software related problems with on-the-job and/or simulated projects.  
One lecture and five lab hours each week. Lab Fee.

**Prerequisite: Sophomore standing and approval of Division Director. This is a capstone experience.**

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITSC 2380 – CTE - Cooperative Education, Computer and Information Sciences, General.**

Three hours credit – ANGELINA COLLEGE.  
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. A weekly one-hour seminar is held in conjunction with the student's job.

**Prerequisite: Sophomore standing and Division Director approval. This is a capstone experience. Lab fee.**

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITSE 1302 – CTE - Computer Programming.**

Three hours credit – ANGELINA COLLEGE.  
Introduction to computer programming including design, development, testing, implementation, and documentation.  
Three lecture and one lab hour each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITSE 1307 – CTE - Introduction to C++.**

Three hours credit – ANGELINA COLLEGE.  
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. Three lecture and one lab hour each week. Lab fee.

**Prerequisite: ITSC 1301.**

**.5 CREDIT HIGH SCHOOL**



**Computer Information Systems – ITSE 1331 – CTE - Introduction to Visual Basic Programming.**

Three hours credit – ANGELINA COLLEGE.

Introduction to computer programming using Visual Basic. Emphasizes the fundamentals of structured design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices and files. Three lecture and one lab hour each week. Lab fee.

**Prerequisite: ITSC 1301.**

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITSE 1350 – CTE - Systems Analysis and Design.**

Three hours credit – ANGELINA COLLEGE.

Introduction to the planning, design and construction of computer information systems using the systems development life cycle and other appropriate design tools.

Three lecture and one lab hour each week. Lab fee.

**Prerequisite: ITSC 1301.**

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITSE 2317 – CTE - JAVA Programming.**

Three hours credit – ANGELINA COLLEGE.

Introduction to object-oriented Java programming including the fundamental syntax and semantics of Java for applications and web applets.

Three lecture and one lab hour each week. Lab fee.

**Prerequisite: ITSC 1301.**

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITSW 1304 – CTE - Introduction to Spreadsheets.**

Three hours credit – ANGELINA COLLEGE.

Instruction in the concepts, procedures, and application of electronic spreadsheets.

Three lecture and one lab hour each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITSW 1307 – CTE - Introduction to Database.**

Three hours credit – ANGELINA COLLEGE.

Introduction to database theory and the practical applications of a database.

Three lecture and one lab hour each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITSW 1310 – CTE - Introduction to Presentation Graphics Software.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture and one lab hour each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Computer Information Systems – ITSY 2400 – CTE - Operating System Security.**

Four hours credit – ANGELINA COLLEGE.

Safeguard computer operating systems by demonstrating server support skills and designing and implementing a security system. Identify security threats and monitor network security implementations. Use best practices to configure operating systems to industry security standards.

Four lecture and one lab hour each week. Lab fee.

**Prerequisite: ITNW 1454 or approval of Division Director.**

**.5 CREDIT HIGH SCHOOL**

**History – HIST 2301 – Texas History.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Human Relations – HRPO 1311 – CTE - Human Relations.**

Three hours credit – ANGELINA COLLEGE.

Practical application of the principles and concepts of the behavioral sciences to interpersonal relationships in business and industrial environments.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Instructional Media – IMED 1416 – CTE - Web Page Design I.**

Four hours credit – ANGELINA COLLEGE.

Instruction in Web design and related graphic design issues including mark-up languages, websites, and browsers.

Two lecture and four lab hours per week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Instructional Media – IMED 2315 – CTE - Web Page Design II.**

Three hours credit – ANGELINA COLLEGE.

A study of mark-up language and advanced layout techniques for creating web sites, according to accessibility standards, cultural appearance, and legal issues.

Three lecture and one lab hour per week.

**Prerequisite: IMED 1416. Lab fee.**

**.5 CREDIT HIGH SCHOOL**

**Instructional Media – IMED 2309 – CTE - Internet Commerce.**

Three hours credit – ANGELINA COLLEGE.

An overview of the Internet as a marketing and sales tool with emphasis on developing a prototype for electronic commerce. Three lecture and one lab hour per week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Management Development – BMGT 1301 – CTE - Supervision.**

Three hours credit – ANGELINA COLLEGE.

A study of the role of the supervisor. Includes managerial functions as applied to leadership, counseling, motivation, and human relations skills are examined.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Management Development – BMGT 1327 - CTE - Principles of Management.**

Three hours credit – ANGELINA COLLEGE.

Concepts, terminology, principles, theories, and issues in the field of management.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Management Development – BUSG 1380, 1381, 2380 & 2381 – CTE - Cooperative Education I, II, III, & IV – Business/Commerce, General.**

Three hours credit – ANGELINA COLLEGE.

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. A weekly one-hour seminar is held in conjunction with the student's job. BUSG 2381 is a capstone course.

**.5 CREDIT HIGH SCHOOL**

**Management Development – BUSG 2309 – CTE - Small Business Management.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Management Development – HRPO 2301 – CTE - Human Resource Management.**

Three hours credit – ANGELINA COLLEGE.

Behavioral and legal approaches to the management of human resources in organizations.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Marketing – MRKG 1311 – CTE - Principles of Marketing.**

Three hours credit – ANGELINA COLLEGE.

Introduction to the marketing mix functions and process. Includes identification of consumer and organizational needs and explanation of environmental issues.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Marketing – MRKG 2333 – CTE - Principles of Selling.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Marketing – MRKG 2349 – CTE - Advertising and Sales Promotion.**

Three hours credit – ANGELINA COLLEGE.

Integrated marketing communications. Includes advertising principles and practices. Emphasizes multi-media of persuasive communication including buyer behavior, budgeting and regulatory constraints.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Office Administration – POFT 1301 – CTE - Business English.**

Three hours credit – ANGELINA COLLEGE.

Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business.

Three lecture hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Office Administration – POFT 1309 – CTE - Administrative Office Procedures I.**

Three hours credit – ANGELINA COLLEGE.

Study of current office procedures, duties, and responsibilities applicable to an office environment.

Three lecture hours each week.

**Prerequisite: POFT 1429 or equivalent.**

**.5 CREDIT HIGH SCHOOL**

**Office Administration – POFT 1319 – CTE - Records and Information Management I.**

Three hours credit – ANGELINA COLLEGE.

Introduction to basic records information management filing systems, including manual and electronic filing.

Three lecture hours each week. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Office Administration – POFT 1429 – CTE - Beginning Keyboarding.**

Four hours credit – ANGELINA COLLEGE.

Skill development in keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatting basic documents.

Four lecture hours each week including lab exercises. Lab fee.

**.5 CREDIT HIGH SCHOOL**

**Office Administration – POFT 2303 – CTE - Speed and Accuracy Building.**

Three hours credit – ANGELINA COLLEGE.

Review, correct, and improve keyboarding techniques for the purpose of increasing speed and improving accuracy. This course is designed to be repeated multiple times to improve student proficiency.

Three lecture hours each week including lab exercises. Lab fee.

**Prerequisite: POFT 1429 or equivalent.**

**.5 CREDIT HIGH SCHOOL**

**Office Administration – POFT 2364 – CTE - Practicum – Administrative Assistant/ Secretarial Science.**

Three hours credit – ANGELINA COLLEGE.

Practical general workplace training supported by an individualized learning plan developed by the employer, college, and student. The college with the employer develops and documents an individualized plan for 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. A participatory online seminar is held in conjunction with student's job. Offered only during Spring semester.

**Prerequisite: An accumulation of 30 hours of course work toward the A.A.S. degree in Office Administration or permission of the instructor. This is a capstone course.**

**.5 CREDIT HIGH SCHOOL**

**Psychology – PSYC 2308 – CTE - Child Psychology.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Psychology – PSYC 2315 – CTE - Psychology of Adjustment.**

Three hours credit – ANGELINA COLLEGE.

Study of the processes involved in adjustment of individuals to their personal and social environments. Understanding of self, the social influences contributing to the development of self, and successful existence of the individual within society are investigated. Activities are planned to help the individual increase his awareness of his own abilities, skills, limitations, personality and needs, as well as those of other individuals. Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Real Estate – RELE 1201 – CTE - Principles of Real Estate I.**

Two hours credit – ANGELINA COLLEGE.

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.

Thirty-two contact hours. Required for TREC exam.

**.5 CREDIT HIGH SCHOOL**

**Real Estate – RELE 1211 – CTE - Law of Contracts.**

Two hours credit – ANGELINA COLLEGE.

Elements of a contract, offer and acceptance, statute of frauds, specific performance and remedies for breach, unauthorized practice of law, commission rules relating to use of adopted forms and owner disclosure requirements.

Forty-eight contact hours. Required for TREC exam.

**.5 CREDIT HIGH SCHOOL**

**Real Estate – RELE 1221 – CTE - Real Estate Marketing.**

Two hours credit – ANGELINA COLLEGE.

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. Forty-eight contact hours. Recommended for TREC exam.

**.5 CREDIT HIGH SCHOOL**

**Real Estate – RELE 1238 – CTE - Principles of Real Estate II.**

Two hours credit – ANGELINA COLLEGE.

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. Thirty-two contact hours. Required for TREC exam.

**.5 CREDIT HIGH SCHOOL**

**Real Estate – RELE 1303 – CTE - Real Estate Appraisal.**

Three hours credit – ANGELINA COLLEGE.

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. Forty-eight contact hours.

**.5 CREDIT HIGH SCHOOL**

**Real Estate – RELE 1309 – CTE - Real Estate Law.**

Three hours credit – ANGELINA COLLEGE.

Legal concepts of real estate, land description, real property rights, estates in land, contracts, conveyances, encumbrances, foreclosures, recording procedures, and evidence of title. Forty-eight contact hours.

**.5 CREDIT HIGH SCHOOL**

**Real Estate – RELE 1319 – CTE - Real Estate Finance.**

Three hours credit – ANGELINA COLLEGE.

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. Forty-eight contact hours.

**.5 CREDIT HIGH SCHOOL**

**Real Estate – RELE 1325 – CTE - Real Estate Mathematics.**

Three hours credit – ANGELINA COLLEGE.

Basic arithmetic skills includes mathematical logic, percentages, interest, time, value of money, depreciation, amortization, proration, and estimation of closing statements. Forty-eight contact hours. Recommended for TREC exam.

**.5 CREDIT HIGH SCHOOL**

**Real Estate – RELE 2201 – CTE - Law of Agency.**

Two hours credit – ANGELINA COLLEGE.

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. Thirty-two contact hours. Required for TREC exam.

**.5 CREDIT HIGH SCHOOL**

**Real Estate – RELE 2331 – CTE - Real Estate Brokerage.**

Three hours credit – ANGELINA COLLEGE.

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. Forty-eight contact hours.

**.5 CREDIT HIGH SCHOOL**

**Sociology – SOCI 1306 – CTE - Social Problems.**

Three hours credit – ANGELINA COLLEGE.

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. Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Sociology – SOCI 2301 – CTE - Marriage and the Family.**

Three hours credit – ANGELINA COLLEGE.

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.

Three lecture hours each week.

**.5 CREDIT HIGH SCHOOL**

**Word Processing – ITSW 1301 – CTE - Intro to Word Processing.**

Three hours credit – ANGELINA COLLEGE.

An overview of the production of documents, tables, and graphs.

Three lecture hours each week plus one hour of lab exercises. Lab fee.

**Prerequisites: POFT 1429 or equivalent.**

**.5 CREDIT HIGH SCHOOL**

**Word Processing – POFI 2331 – CTE - Desktop Publishing.**

Three hours credit – ANGELINA COLLEGE.

In-depth coverage of desktop publishing terminology, text editing, and use of design principles. Emphasis on layout techniques, graphics, multiple page displays, and business applications.

Three lecture hours each week plus one hour of lab exercises. Lab fee.

**Prerequisite: ITSW 1301.**

**.5 CREDIT HIGH SCHOOL**

## COSMETOLOGY

Pineywoods Community Academy PARAMUS ECHS has an agreement with Hair Academy in Lufkin, Texas for students to pursue specific training for employment in cosmetology careers.

**Principles of Cosmetology Design and Color Theory – PRICOSMO - CTE - TSDS PEIMS Code: 13025050**

In Principles of Cosmetology Design and Color Theory, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

**Grade Placement: 9–10**

**Recommended Prerequisite: Principles of Human Services.**

**1 CREDIT HIGH SCHOOL**

**Introduction to Cosmetology – INTCOSMO - CTE - TSDS PEIMS Code: 13025100**

In Introduction to Cosmetology, students explore careers in the cosmetology industry. To prepare for success, students must have academic and technical knowledge and skills relative to the industry. Students may begin to earn hours toward state licensing requirements.

**Grade Placement: 10**

**1 CREDIT HIGH SCHOOL**

**Cosmetology I - COSMET1 - CTE - TSDS PEIMS Code: 13025200**

In Cosmetology I, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation (TDLR) requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

**Grade Placement: 10–11**

**Recommended Prerequisite: Introduction to Cosmetology.**

**Credit: 2**

**Cosmetology I/Cosmetology I Lab (Innovative) - COSLAB1 - CTE - TSDS PEIMS Code: 13025210**

Cosmetology I/Cosmetology I Lab (Innovative) course provides students additional lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students will be expected to demonstrate mastery in conducting the skills and techniques learned in Cosmetology I with little to no guidance.

**Grade Placement: 10-11**

**Corequisite: The cosmetology I Lab course may not be taken as a stand-alone course. The cosmetology I course must be taken concurrently with Cosmetology I Lab. Districts are encouraged to offer this lab in a consecutive block with Cosmetology I to allow students sufficient time to master the content of both courses.**

**Credits: 3**

**Cosmetology II - COSMET2 - CTE - TSDS PEIMS Code: 13025300**

In Cosmetology II, students will demonstrate proficiency in academic, technical, and practical knowledge and skills. The content is designed to provide the occupational skills required for licensure. Instruction includes advanced training in professional standards/employability skills; Texas Department of Licensing and Regulation (TDLR) rules and regulations; use of tools, equipment, technologies, and materials; and practical skills.

**Grade Placement: 11-12**

**Prerequisite: Cosmetology I.**

**Credit: 2**

**Cosmetology II/Cosmetology II Lab (Innovative) - COSLAB2 - CTE - TSDS PEIMS Code: 13025310**

Cosmetology II /Cosmetology II Lab (Innovative) course provides students additional lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students are expected to develop proficient and mastery level work samples and to expand their work experiences.

**Grade Placement: 11-12**

**Prerequisites: Cosmetology I/Cosmetology I Lab (Innovative) Corequisites: The Cosmetology II Lab course may not be taken as a stand-alone course. The Cosmetology II course must be taken concurrently with Cosmetology II Lab. Districts are encouraged to offer this lab in a consecutive block with Cosmetology II to allow students sufficient time to master the content of both courses.**

**Credits: 3**