POTH HIGH SCHOOL

COURSE CATALOG

Information contained in this guide is to be used to assist students, parents and school personnel in planning educational programs to meet the needs and interests of Poth High School. For each course, the catalog provides the title, grade placement, prerequisites, and a brief description of the content.

Additional sections of the catalog contain a summary of Poth High School graduation requirements, grade classification requirements, and a sample Four Year Plan.

Poth High School operates under a combination 2-semester plan. Yearlong courses earn 1/2 credit per semester for final grades of 70 or above or can earn 1 credit if the two semester averages equal 70 or above; half-year courses receive 1/2 credit with an average of 70 or more.

Students and parents are responsible for knowing the requirements for graduation. Any questions should be addressed to the academic counselor.

ACADEMIC LOAD

Students shall be enrolled in eight courses.
Seniors may enroll in seven courses if they are on track for graduation and passed all STAAR Exams.

GRADE CLASSIFICATION

PHS grade classification will be determined at the beginning of each year and at the spring semester. PHS classification will be determined by credits earned as follows:

Sophomore – 5 Credits Earned
Junior – 10 Credits Earned
Senior – 15 Credits Earned

STATE OF TEXAS ASSESSMENTS OF ACADEMIC READINESS (STAAR)

High school students are required to take end-of-course (EOC) examinations as a graduation requirement. The EOC-tested courses include Algebra I, English I, English II, Biology, and U.S. History. Students failing to achieve Satisfactory Performance will be provided accelerated instruction and/or scheduled into a specifically designed elective in that subject area to better prepare them for the next STAAR EOC administration.

TEXAS SUCCESS INITIATIVE

The Texas Success Initiative is a state-legislated program designed to improve student success in college. Students entering college must meet the College Readiness Standards to be eligible for college-level courses in math, reading, and writing. Students must take developmental courses when they enter college in any subject(s) where they do not meet the standard as defined below.

The ACT Composite is the Average of Math and Reading Scores 23
19 Math, 19 English

The Scholastic Assessment Test (SAT)
530 Math, 480 Critical Reading

Texas Success Initiative (TSI) Assessment
ELAR CRC >= 945 + 5 on the Essay OR CRC < 945 and a Diagnostic Level >= 5 + 5 on the Essay
Math CRC >= 950 or CRC < 950 and a Diagnostic Level = 6

GRADUATION REQUIREMENTS

The Foundation Graduation Program contains four parts:
- A 26-credit Foundation Program with Endorsement
- Five endorsement options that allow students to focus on a related series of courses
- A higher performance category called Distinguished Level of Achievement
- Performance Acknowledgements that note outstanding achievement

REQUIREMENTS FOR THE 26 CREDIT FOUNDATION PROGRAM WITH ENDORSEMENT

The 26 credits are comprised of the following state and local requirements.

* STAAR End-of-Course (EOC) Assessment Requirement

State Requirements:
• **English (4 credits)** English I*, English II*, English III, and Advanced English Course
• **Math (3 credits + 1 math credit to fulfill Endorsement)** Algebra I*, Geometry, 2 Advanced Math Courses
• **Science (3 credits + 1 science credit to fulfill Endorsement)** Biology*, Chemistry, 2 Adv Science Courses
• **Social Studies (3 credits)** World Geography, U.S. History*, U.S. Govt (.5 credit), Economics (.5 credit)
• **Languages Other Than English (2 credits of the same language)**
• **Physical Education (1 credit)**
• **Speech (.5 credit)**
• **Fine Arts (1 credit)**
• **Electives (5.5 credits)**
Local Requirements:
• **Health (.5 credit)**

ENDORSEMENTS

An endorsement is a series of related courses in one of the following areas listed below. A student entering 9th grade must select one endorsement area he or she intends to pursue, and the student may change or add an endorsement at any time. A student may graduate without earning an endorsement if, after his or her sophomore year, the student's parent signs a form permitting the student to omit the endorsement requirement.

STEM	Business & Industry	Public Services	Arts & Humanities	Multidisciplinary
Science Math	Ag Mechanics Animal Science Ag Business Business Management	Healthcare Therapeutics Teaching and Training	Social Studies Music Art	Completing the foundation and general endorsement requirements and: Four credits in each of the four foundation subject areas to include English 4 and Chemistry and/or Physics.

The following are sample Graduation Plans for each Endorsement Pathway:

Endorsement:	**Business & Industry**		
Pathway: Agricultural Technology and Mechanical Systems and Manufacturing Courses: **Principles of Agriculture** **Ag Mechanics** **Agricultural Structures and Design** **Agricultural Equipment Design and Fabrication**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	Geometry/Algebra 2	Algebra 2/Pre-Cal	Pre-Cal/Algebra 2/Math for College/Financial Math/Calculus
World Geography	US History	Government/Economics	Elective Choice
Biology	Chemistry	Physics/Advanced Sci	Advanced Science
Principles of Ag	**Ag Mechanics**	**Agricultural Structures and Design**	**Agricultural Equipment Design and Fabrication**
Elective – PE/Athletics	Elective – Fine Arts	Elective Choice	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	
Speech/Health			

Endorsement:	**Business & Industry**		
Pathway: <u>Animal Science</u> Courses: **Principles of Agriculture** **Small Animal and Equine Science** **Livestock Production** **Veterinary Science with Lab** **Animal Science**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	Geometry/Algebra 2	Algebra 2/Pre-Cal	Pre-Cal/Algebra 2/Math for College/Financial Math/Calculus
World Geography	US History	Government/Economics	Elective Choice
Biology	Chemistry	Physics/Advanced Sci	Advanced Science
Principles of Ag	**Small Animal/Equine**	**Livestock Production**	**Practicum in Agriculture or CP I**
Elective – PE/Athletics	Elective – Fine Arts	**Vet Science**	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	Elective Choice
Speech/Health	Elective Choice	Elective Choice	

Endorsement:	**Business and Industry**		
Pathway: <u>Agriculture Business</u> Courses: **Principles of Agriculture, Food and Natural Resources** **Professional Standards in Agribusiness** **Agribusiness Management and Marketing** **Agricultural Leadership, Research and Communication**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	Geometry/Algebra 2	Algebra 2/Pre-Cal	Pre-Cal/Algebra 2/Math for College/Financial Math/Calculus
World Geography	US History	Government/Economics	Elective Choice
Biology	Chemistry	Physics/Advanced Sci	Advanced Science
Principles of Ag	**Professional Standards in Ag Bus**	**Agribusiness Management**	**Ag Leadership or Practicum in Agriculture or CP I**
Elective – PE/Athletics	Elective – Fine Arts	Elective Choice	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	
Speech/Health			

Endorsement:	**Business and Industry**		
Pathway: Business Management Courses: **Foundations of Business Communications and Technology** **Entrepreneurship I** **Human Resources Management** **Practicum in Business**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	Geometry/Algebra 2	Algebra 2/Pre-Cal	Pre-Cal/Algebra 2/Math for College/Financial Math/Calculus
World Geography	US History	Government/Economics	Elective Choice
Biology	Chemistry	Physics/Advanced Sci	Advanced Science
Foundations of Bus	**Entrepreneurship I**	**Business Management**	**Practicum in Business or CP**
Elective – PE/Athletics	Elective – Fine Arts	Elective Choice	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	
Speech/Health			

Endorsement:	**Public Service**		
Pathway: Healthcare Therapeutics Courses: **Principles of Health Science** **Medical Terminology** **Health Science Theory** **Anatomy and Physiology** **Practicum in Health Science**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	Geometry/Algebra 2	Algebra 2/Pre-Cal	Pre-Cal/Algebra 2/Math for College/Financial Math/Calculus
World Geography	US History	Government/Economics	Elective Choice
Biology	Chemistry	Physics/Advanced Sci	Advanced Science
Principles of Health Sc	**Medical Terminology**	**Anatomy**	**Practicum in Health Science or CP I**
Elective – PE/Athletics	Elective – Fine Arts	**Health Science Theory**	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	
Speech/Health			

Endorsement:	**Public Service**		
Pathway: Teaching and Training Courses: **Principles of Education and Training** **Human Growth and Development** **Instructional Practices** **Practicum in Education and Training or CP I**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	Geometry/Algebra 2	Algebra 2/Pre-Cal	Pre-Cal/Algebra 2/Math for College/Financial Math/Calculus
World Geography	US History	Government/Economics	Elective Choice
Biology	Chemistry	Physics/Advanced Sci	Advanced Science
Principles of Ed	**Human Growth & Dev**	**Instructional Practices**	**Practicum in Education or CP I**
Elective – PE/Athletics	Elective – Fine Arts	Elective Choice	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	
Speech/Health			

Endorsement:	**STEM**		
Pathway: <u>Math</u> Courses: **Algebra 1, Geometry, Algebra 2, Pre-Cal, Calculus**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	**Algebra 2**	**Pre-Cal**	**Calculus**
World Geography	US History	Government/Economics	Calculus
Biology	Chemistry	Physics/Advanced Sci	Advanced Science
Elective Choice	Elective Choice	Elective Choice	Elective Choice
Elective – PE/Athletics	Elective – Fine Arts	Elective Choice	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	Elective Choice
Speech/Health	Elective Choice	Elective Choice	

Endorsement:	**STEM**		
Pathway: <u>Science</u> Courses: **Biology** **Chemistry** **Physics** **Advanced Science** **Advanced Science**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	Geometry/Algebra 2	Algebra 2/Pre-Cal	Pre-Cal/Algebra 2/Math for College/Financial Math/Calculus
World Geography	US History	Government/Economics	Elective Choice
Biology	**Chemistry**	**Physics**	**Advanced Science**
Elective Choice	Elective Choice	Elective Choice	**Advanced Science**
Elective – PE/Athletics	Elective – Fine Arts	Elective Choice	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	Elective Choice
Speech/Health	Elective Choice	Elective Choice	

Endorsement:	**Arts & Humanities**		
Pathway: <u>Social Studies</u> Courses: **World Geography** **US History** **Government/Economics** **Psychology/Sociology**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	Geometry/Algebra 2	Algebra 2/Pre-Cal	Pre-Cal/Algebra 2/Math for College/Financial Math/Calculus
World Geography	**US History**	**Government/Economics**	**Psychology/Sociology**
Biology	Chemistry	Physics/Advanced Sci	Advanced Science
Elective Choice	Elective Choice	Elective Choice	Elective – Psychology/Soc.
Elective – PE/Athletics	Elective – Fine Arts	Elective Choice	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	Elective Choice
Speech/Health	Elective Choice	Elective Choice	

Endorsement:	**Arts & Humanities**		
Pathway: <u>Music</u> Courses: **Band 1-4**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	Geometry/Algebra 2	Algebra 2/Pre-Cal	Pre-Cal/Algebra 2/Math for College/Financial Math/Calculus
World Geography	US History	Government/Economics	Elective Choice
Biology	Chemistry	Physics/Advanced Sci	Advanced Science
Band 1	**Band 2**	**Band 3**	**Band 4**
Elective – PE/Athletics	Elective – Fine Arts	Elective Choice	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	Elective Choice
Speech/Health	Elective Choice	Elective Choice	

Endorsement:	**Arts & Humanities**		
Pathway: <u>Art</u> Courses: **Art 1** **Art 2** **Art 3 or AP Art** **Art 4 or AP Art**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	Geometry/Algebra 2	Algebra 2/Pre-Cal	Pre-Cal/Algebra 2/Math for College/Financial Math/Calculus
World Geography	US History	Government/Economics	Elective Choice
Biology	Chemistry	Physics/Advanced Sci	Advanced Science
Art 1	**Art 2**	**Art 3/AP Art**	**Art 4/AP Art**
Elective – PE/Athletics	Elective – Fine Arts	Elective Choice	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	Elective Choice
Speech/Health	Elective Choice	Elective Choice	

Endorsement:	**Multidisciplinary Studies**		
Pathway: <u>Advanced Courses</u> Courses: **4 Advanced Courses**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	English 3	English 4
Algebra 1/Geometry	Geometry/Algebra 2	**Algebra 2**/Pre-Cal	**Pre-Cal**/Algebra 2/Math for College/Financial Math/Calculus
World Geography	US History	Government/Economics	Elective Choice
Biology	Chemistry	**Physics/Advanced Sci**	**Advanced Science**
Elective Choice	Elective Choice	Elective Choice	Elective Choice
Elective – PE/Athletics	Elective – Fine Arts	Elective Choice	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	Elective Choice
Speech/Health	Elective Choice	Elective Choice	

Endorsement:	**Multidisciplinary Studies**		
Pathway: <u>Dual Credit</u> Courses: **4 Dual Credit Courses**			
Freshman	**Sophomore**	**Junior**	**Senior**
English 1	English 2	**English 3 Dual Credit**	English 4
Algebra 1/Geometry	Geometry/Algebra 2	Algebra 2/Pre-Cal	Pre-Cal/Algebra 2/Math for College/Financial Math/Calculus
World Geography	**US History DC**	**Government/Econ. DC**	**Psychology/Sociology DC**
Biology	Chemistry	Physics/Advanced Sci	Advanced Science
Elective Choice	Elective Choice	Elective Choice	Elective Choice
Elective – PE/Athletics	Elective – Fine Arts	Elective Choice	Elective Choice
Elective – Spanish 1	Elective – Spanish 2	Elective Choice	Elective Choice
Speech/Health	Elective Choice	Elective Choice	

DISTINGUISHED LEVEL OF ACHIEVEMENT

A student may earn the Distinguished Level of Achievement by completing the Foundation Program with Endorsement, including four math credits and four science credits, and at least one endorsement. Algebra II must be one of the math credits. The Distinguished Level of Achievement must be earned to be admitted to a Texas public university under the Top 10 percent automatic admission law.

PERFORMANCE ACKNOWLEDGEMENT

A student may earn a Performance Acknowledgement on his or her transcript for outstanding performance in one or more of the following to measure his/her progress toward readiness for college and the workplace:

- ACT Composite Score of 28; SAT scores of at least 1250; OR PSAT/NMSQT score that qualifies student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, the National Hispanic Recognition Program (NHRP), or the National Achievement Scholarship Program of the National Merit Scholarship Corporation
- Advanced Placement (AP) exam score of 3 or higher
- Bilingualism – three credits in same language with a minimum GPA of 80
- Dual Credit – successfully completing at least 12 hours of college academic courses, including dual credit and advanced technical credit courses, with a grade of 3.0 or higher
- Earning a nationally or internationally recognized business or industry certification or government-required credential to practice a profession

LANGUAGE ARTS

English I
Students will study the use of literary techniques in short stories, poetry, non-fiction, drama, and mythology. Major selections include Romeo and Juliet and The House On Mangos Street. Various techniques of the writing process, in addition to a study of grammar, usage, and vocabulary, are emphasized in order to write comprehensive expository essays.

English I Honors
This course challenges students to strengthen their ability to understand and analyze literature. Students will be responsible for in-depth study of literary techniques with additional assignments in numerous classical and contemporary novels. Major selections include Lord of the Flies, To Kill a Mockingbird and Of Mice and Men. Students will hone their writing skills through in-depth planning, organizing, drafting, revising, proofreading and feedback in order to write comprehensive analytical and expository essays.

English II
The focus of this course is to develop students' writing abilities. Students review the writing process and write in each of the four modes: narrative, expository, persuasive, and descriptive. They will further develop their research skills and cite sources using MLA style. Students also read and analyze literary works representative of each mode.

English II Honors
Students will engage in literary and rhetorical analysis of works of literary merit from authors around the world and across time. These works require "careful, deliberate reading that yields multiple meanings" (English Literature and Composition Course Requirements). Writing assignments will include expository, analytical, and argumentative modes. Students will integrate argumentation and research skills, citing sources using MLA style.

English III
Students will build on literary knowledge with selections from American and World literature to include the works of Irving, Poe, and Hawthorne. In Junior English the focus is on narrative, research, and objective writing with SAT preparation.

English III Dual Credit
Freshman Composition 1 – ENGL 1301
Emphasizes training in academic reading and writing. Essays written will be based on a variety of purposes and be created in a multitude of forms. Students will study the principles of invention and arrangement and work to develop a sense of audience and purpose in their writing.
Freshman Composition 2 – ENGL 1302
An introduction to the study of literature that includes poetry, drama, fiction, and other genres. Students are instructed in and required to write a formal research paper.

English IV or English IV Honors
Literature concentrates on British and Western authors. Senior writing focuses on college-preparatory writing including research and SAT preparation along with a look at everyday writing such as memos, job applications, etc.

Business English
Grade 12
Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students are expected to plan, draft, and complete written compositions on a regular basis. Students edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English and produce final, error-free drafts for business reproduction. This course may not meet the acceptance requirements for a four-year university.

SPEECH and HEALTH

Professional Communication
This course explores the communication process, interpersonal and group communication, and offers students an opportunity to develop their presentation skills. Emphasis is placed on communication in professional contexts such as the interview. Students will make formal and informal presentations for a variety of purposes. (1 Semester)

Public Speaking Dual Credit (Communications Application DC)
Speech 1315
Instruction in oral communication as it applies to listening, interpersonal, small group, and public speaking. Study of communication theory and practice through speeches and presentations, assessments, reflection, group discussions, and advocacy exercises. (1 Semester)

Health
This course is intended to improve students' understanding of what character, mental health and leadership mean as well as how to translate that into more effective behavior in school and in life. The topics in this class are based on those traits and will require you to think, analyze, problem solve and look at issues from multiple perspectives. The ultimate goal is to help you become more successful in school, relationships, career and life. The class also includes the topics of first aid, CPR, bullying prevention/training and suicide prevention.

MATHEMATICS

Endorsement: STEM	
Pathway: Mathematics	
Career Opportunities: Statistician, Analyst, Engineer, Math Teacher, Actuary, Air Traffic Control, Accountant, Banker	
Course	**Credits**
Algebra 1	1 Credit
Geometry	1 Credit
Algebra 2	1 Credit
Pre-Calculus	1 Credit
College Algebra	1 Credit

Algebra 1
A math course that builds on the understandings of number, operation, and quantitative reasoning: patterns, relationships, algebraic thinking and symbolic reasoning.

Geometry
Topics covered include the language of geometry (points, lines, planes and angles), reasoning and proofs, parallel and perpendicular lines, congruent triangles, applications of congruent triangles, quadrilaterals, similarity, right triangles and trigonometry, circles, polygons and area, surface area transformations.

Geometry Honors
The course is designed to foster reasoning and logical skills. The topics from this course are the same as the topics in regular Geometry but are covered in much more depth and at a faster rate. Additional topics will be added as time allows. Honors Geometry is recommended for students who are college bound and have a strong math background. It is also highly recommended as a prerequisite for the successful study of Honors Algebra II, Honors Pre-Calculus and AP Calculus.

Algebra 2
This course is designed for students who have had at least one year of high school algebra. Topics include polynomials, factoring, algebraic fractions, exponents, radicals and quadratic equations.

On Ramps College Algebra 2 – MATH 1314
Grades 10-12
Pre-Requisites: Algebra 1, Geometry
In College Algebra, you will deepen your critical thinking skills and develop your ability to persist through challenges as you explore function families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic. You will analyze data algebraically and with technology while developing your knowledge of properties of functions, matrices, systems of equations, and complex numbers. The pedagogy of the course, Inquiry-Based Learning, encourages you to take an active role in the construction of your learning. This learning will be accomplished by abstraction, generalization, problem-solving, and modeling.

Financial Mathematics
Financial Mathematics is a course about personal money management. Students will apply critical thinking skills to analyze personal financial decisions based upon the current and projected economic factors. Math and calculations related to the real world experiences include some of the following: net pay, income taxes, calculate mortgage payment, property taxes, mortgage insurance, closing cost, interest cost, etc.

Pre-Calculus AP
AP Precalculus prepares students for other college-level mathematics and science courses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. The course framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science.

Calculus AP
AP Calculus is the equivalent of Calculus 1 (the first semester of calculus) in most colleges. Students have the opportunity to take the AP exam in May and can earn college credit if they score well enough. The course covers limits, finding derivatives, applying derivatives, finding integrals and applying integrals. It is a foundational course for further study in medicine, science, engineering and business and will satisfy the math requirements for many other majors.

Math for College Readiness
Grade 12
Prerequisite: Algebra 2
This course includes factoring techniques, radicals, algebraic fractions, complex numbers, graphing linear equations and inequalities, quadratic equations, systems of equations, graphing quadratic equations, and an introduction to functions. Emphasis is placed on algebraic techniques, in order to successfully complete Math 1314 College Algebra. Successful completion of Math for College Readiness indicates that the student has met the criteria for College Algebra, and the student is prepared for entry-level college mathematics without further assessment or remediation.

SCIENCE

Endorsement: STEM	
Pathway: Science	
Career Opportunities: Meteorologist, Park Ranger, Scientist, Engineer, Biologist, Physician	
Course	**Credits**
Biology	1 Credit
Chemistry	1 Credit
Physics	1 Credit
Advanced Science	1 Credit
Advanced Science	1 Credit

Biology I
Students in Biology focus on patterns, processes, and relationships of living organisms through four main concepts: biological structures, functions, and processes; mechanisms of genetics; biological evolution; and interdependence within environmental systems. The main topics include science safety & methods, cells, photosynthesis & cellular respiration, biomolecules, cycles, DNA & the cell cycle, protein synthesis, genetics, evolution, ecology, and body systems

Biology I Honors
Honors Biology is designed to prepare college bound students for the rigors of AP Biology and/or college level science. The focus and topics covered are the same as Biology I with a greater amount of responsibility placed on the student in regards to higher-level thinking and problem solving.

Integrated Physics and Chemistry
In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use engineering practices, use scientific practices during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.

Chemistry
The course begins with laboratory procedures and the scientific method and continues into the main focus of the course which covers the basic concepts of states of matter, atomic structure, formula writing, stoichiometry, periodic table, chemical reactions, acids and bases. An introduction to nuclear chemistry and organic chemistry is included at the end of the course. This course stresses laboratory work. A good math background is necessary.

Chemistry Honors
Chemistry Honors covers the same topics as Chemistry I but in greater depth. The course begins with laboratory procedures and the scientific method and continues into the main focus of the course which covers the basic concepts of states of matter, atomic structure, formula writing, stoichiometry, periodic table, chemical reactions, acids and bases, nuclear chemistry and organic chemistry. This course stresses laboratory work with practical applications and problem-solving experiments. Chemistry Honors is a college-prep course and a good math background is required.

Physics On Ramps - PHYS 1301 and PHYS 1101
Grades 11-12
4 College Credits (3 for lecture, 1 for lab)
Pre-Requisites: Algebra 1, Geometry and Algebra 2 (can be concurrent)
Mechanics, Heat, and Sound introduces big ideas in physics, such as Newtonian mechanics (including motion, force, energy, and rotation), as well as solid and fluid mechanics, oscillations, waves, sound, and heat.

Anatomy and Physiology
Grades 10-12
Anatomy and Physiology is the 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, 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.

Anatomy and Physiology Honors
Grades 10-12
Honors Anatomy and Physiology is the 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, 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. Honors will explore a more in-depth study of anatomy.

Forensic Science
Grades 11-12
Prerequisites: Biology and Chemistry
Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science methods of investigation can be experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked.

Biology AP
Pre-Requisite Biology Honors and/or Chemistry Honors
Grade 12
This course follows the College Board Advanced Placement guidelines. It prepares students for the AP exam for which the student may receive college credit. Concepts presented at the college level include biochemistry, cytology cellular energetics, cell communication, heredity, gene expression, natural selection, and ecology. Sophisticated lab techniques are included in this program. Skills emphasized include communication, data analysis, critical thinking, and the use of computer technology and modern scientific equipment, as well as student responsibility.

Advanced Animal Science Dual Credit
Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

Biology 1308 for Non-Science Majors Dual Credit
This course provides a survey of biological principals with an emphasis on humans, including chemistry of life, cells, structure, function and reproduction. This course fulfills the life and physical science foundational component of the core.

Biology 1309 for Non-Science Majors Dual Credit
This course provides a survey of biological principals with an emphasis on humans, including evolution, ecology, plant and animal diversity and physiology. This course fulfills the life and physical science foundational component of the core.

SOCIAL STUDIES

Endorsement: Arts and Humanities	
Pathway: Social Studies	
Career Opportunities: Historian, History Teacher, Psychologist, Politician, Geographer, Economist, Anthropologist	
Course	**Credits**
World Geography	1 Credit
United States History	1 Credit
Government/Economics	1 Credit
Psychology/Sociology	1 Credit

World Geography
This course explores the important themes of World History, from early civilization through the Industrial Revolution, to the modern age of exploration. Students will have the opportunity to practice critical thinking skills to deepen their understanding of the political and social forces that shape World History. This course has two goals or purposes: (1) to help students understand their physical environment and the interrelationships of natural processes; (2) to help students appreciate and understand the interaction of people with their physical environment and other unique cultures.

U.S. History or US History 1301 and 1302 Dual Credit
This course is a history of the United States from the Civil War years to the present. The objective of this course is, to develop a historical appreciation of the democratic values and ideas which shape contemporary American society.

Government
The objective of this course is development of a fundamental awareness of the American system of government. The student will discover the basic elements of change, growth, adaptation, and innovation of American democracy. (1 semester)

Government Dual Credit - National Government GOVT 2305
A general survey course in American government covering the theories and concepts of government, the United States Constitution, politics, public opinion, political parties, human rights, and the functions of national, state and local government. (1 semester)

Economics
The objective of this course is to introduce and develop basic economic theory and principles. The student will demonstrate an understanding of the market economy, supply and demand, government intervention, and business organization. (1 semester)

Economics Dual Credit - Principles of Macroeconomics ECON 2301
This course focuses on economic analysis of the economy as a whole. Topics covered include the determination of aggregate income and employment, fiscal policy, operation of the monetary system, short-term income fluctuations, long-term income growth, the role of government, and problems of international trade and finance. (1 semester)

Psychology 2301 Dual Credit
An introduction to psychology including growth and development, perception, learning and intelligence, emotions, personality development, and mental health. (1 semester)

Sociology 1301 Dual Credit
An introduction to the sociological study of human societies, social processes, and interaction. Attention is on the basic methods, concepts, and frameworks used in sociological analysis. (1 semester)

PHYSICAL EDUCATION

Boys Athletics
Poth High School offers the following sports in competitive athletics for boys: football, basketball, baseball, track, golf, tennis, cross country and powerlifting. It satisfies the physical education requirements, but demands considerable more time, effort, and ability than regular physical education class. It involves intense physical training and advanced sport skills. Anyone wishing to enroll in this class must have prior approval from the head coach and the athletic director.

Girls Athletics
This course is designed for students who wish to participate in interscholastic volleyball, basketball, track and field, softball, cross country, golf, tennis and powerlifting at the high school level. It satisfies the physical education requirements, but demands considerable more time, effort, and ability than regular physical education class. It involves intense physical training and advanced sport skills. Approval from the head coach and the athletic director required.

Physical Education
Students will study the history, rules, and techniques of different sports, as well as participate in friendly competition in these sports. Sports include football, basketball, baseball, track, tennis, volleyball, and other team and individual sports.

Dance 1-4 (Credit: 1 Fine Arts credit and 1 PE Substitution for 1st year; Fine Arts credit, only, thereafter.)
Cheerleading students audition for the varsity team by demonstrating skills required for competitive performances including but not limited to school events, athletic events, contests, community events and performance trips. Students explore and develop advanced dance skills and techniques in various dance disciplines such as jazz, ballet, kick, pom, modern and hip-hop. Emphasis will be on precision, style, technique, flexibility, physical strength, endurance and creativity. Students learn the importance of high academic standards, discipline, dedication, proper nutrition, strong work ethic, teamwork and responsibility.

OTHER LANGUAGES

Spanish 1
Spanish 1 is a novice level course in which students are expected to reach a proficiency level of Novice Mid to Novice High, as defined in the ACTFL Proficiency Guidelines 2012 and the ACTFL Performance Descriptors for Language Learners. Communication is the overarching goal of instruction and students are provided ample opportunities to engage in conversations, to present information to an audience, and to interpret culturally authentic materials in the language of study. The use of culturally authentic resources enables students to make connections with other content areas, to compare the language and culture studied with their own, and to participate in local and global communities.

Spanish 2
Spanish 2 is a novice level course in which students are expected to reach a proficiency level of Novice High to Intermediate Low, as defined in the ACTFL Proficiency Guidelines 2012 and the ACTFL Performance Descriptors for Language Learners. Communication is the overarching goal of instruction and students are provided ample opportunities to engage in conversations, to present information to an audience, and to interpret culturally authentic materials in the language of study. The use of culturally authentic resources enables students to make connections with other content areas, to compare the language and culture studied with their own, and to participate in local and global communities.

FINE ARTS

Endorsement: Arts and Humanities	
Pathway: Music	
Career Opportunities: Professional Musician, Performer, Music Educator, Producer, Music Therapist, Composer	
Course	**Credits**
Band 1	1 Credit
Band 2	1 Credit
Band 3	1 Credit
Band 4	1 Credit

Endorsement: Arts and Humanities	
Pathway: Art	
Career Opportunities: Artist, Graphic Designer, Sculptor, Photographer	
Course	**Credits**
Art 1	1 Credit
Art 2	1 Credit
Art 3 or AP Art	1 Credit
Art 4 or AP Art	1 Credit

Band 1, 2, 3 and 4
Students will develop proper instrumental techniques on a specific musical instrument. The PHS band musically represents Poth in many ways. The band performs at all (non-scrimmage) varsity football games and pep rallies, various community functions such as parades, as well as performing a variety of concerts during the year. The band also competes in a number of contests throughout the year including the UIL sponsored marching contest in the fall and concert and sight-reading contest in the spring. In addition to the group activities outlined above, students have the opportunity to compete for All-Region Band honors and participate in UIL sponsored instrumental solo and ensemble contests. Participation is mandatory.

Jazz Band 1, 2, 3 and 4
The Jazz Band serves as a laboratory for students of instrumental music with emphasis on music theory, improvisation, styles and techniques of jazz, and small ensemble sound. Performances in jazz festivals, school concerts, and other events by invitation. Students are required to attend all competitions, performances, and outside rehearsals. This class also offers an opportunity for a student to learn a secondary instrument to perform with the ensemble.

Music Appreciation Dual Credit
Students will explore fundamentals of music theory including music literacy and analysis, critical listening, creativity and expression, and historical and cultural relevance. This is a one semester course.

Theatre I
Theatre I begins with learning how theatre began and progressed through time. Students will then learn the elements of acting, script reading, set design, costume design, theatrical makeup, and play production. This includes written and

hands-on activities such as play reading, monologue performances, and group script creation/performances. Students must be willing to participate in order to receive a grade.

Theatre II is a project-based class where students create hands-on theatre projects such as costume design, set design, marketing, scriptwriting, and script analysis. Students will also learn technical theatre skills, including lighting design and prop creation. **Prerequisite:** Students must have completed **Theatre I** *or* participated in a **One-Act Play** at the junior high or high school level.

Digital Arts and Animation
In this course, students learn the elements and principles of design, as well as foundational concepts of visual communication to produce an artistic image. Students will learn computer illustration techniques, image manipulation, digital camera use, graphic design visual literacy, and the principles and elements of art in composition. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they've learned. They will also explore career opportunities in the design, production, display and presentation of digital artwork. Students will learn Adobe Photoshop CC. This is a COMPUTER BASED course.

Art I
Art is designed to provide students with opportunities to explore creative expression through their perception of the environment and imagination, study of the elements and principles of art, historical, and cultural heritage, as well as interpret and evaluate art by peers and others.

Art II
Prerequisite: Art I
Art II is designed to provide students opportunities to explore creative expression, in depth, through 2-dimensional mediums, based on their study of the environment and imagination, the elements and principles of art, historical and cultural heritage, as well as interpretation and evaluation of art by peers and others. Drawings will be explored through various drawing mediums, painting, printing techniques, graphic design, and electronic media.

Art 3/4 AP - Drawing AP Art 2-Dimensional Portfolio
Grades: 10-12
Prerequisite: Art II or Art I with recommendation from prior Art Instructor, portfolio review and interview with Art Instructor
The AP Studio Art is designed for students who are seriously interested in the pursuit of art in college and /or as a career, and are prepared to handle the rigors of the AP College Board requirements. During this course students will select and investigate concepts and theories of art; then create imaginative/original art work involving critical thinking and decisions, which illustrate the student's knowledge of their investigation as well as skill in craftsmanship. Students must select the study of drawing, 2-dimensional design, or 3-dimensional design. AP Studio Art students will create original art work to be submitted, in portfolio form, to the College Board. The required sections of the portfolio are: 1) Quality: demonstrating composition and technical skills; 2) Concentration: consisting of related works based on the student's interest in a particular idea; 3) Breath: demonstrating the student's conceptual, perceptual, expressive, and technical skills. Each portfolio consists of approximately 24 pieces of college quality/original student created artwork. A written synopsis of each section is also required by the College Board. The student will be responsible for the $95 fee, required by the College Board for shipping and judging of student's work. Weekly in class assignments will be required; both original artwork and written assignments. Students must be aware that summer research and a few summer assignments, out of class work during the school term, will be extensive, also students will be required to participate in Visual Art Scholastic Event and other art competitions.

CAREER AND TECHNICAL

Agricultural Science and Technology

Endorsement: Business and Industry	
Pathway: Animal Science	
Career Opportunities: Agricultural Sales, Farmer, Livestock Producer, Game Warden, Vet Tech	
Course	**Credits**
Principles of Agriculture, Food, and Natural Resources	1 Credit
Livestock Production	1 Credit
Small Animal and Equine Science	.5 Credit Each
Practicum in Agriculture or Vet Science or Career Prep or Advanced Animal Science	2 Credits

Endorsement: Business and Industry	
Pathway: Agricultural Technology and Mechanical Systems and Manufacturing	
Career Opportunities: Farmer, Ranch Hand, Welder, Metal Production, Machinist, Technician, Manufacturer	
Course	**Credits**
Principles of Agriculture, Food, and Natural Resources	1 Credit
Ag Mechanics - Introduction to Welding	2 Credit
Agricultural Structures and Design - Welding I	2 Credits
Agricultural Equipment Design and Fabrication - Welding II	2 Credits
Practicum in Agriculture or Manufacturing or Career Prep	2 Credits

Endorsement: Business and Industry	
Pathway: Agriculture Business, Leadership and Communication	
Career Opportunities: Accountant, Agribusiness Consultant, Farm Manager	
Course	**Credits**
Principles of Agriculture, Food, and Natural Resources	1 Credit
Professional Standards & Communications in Agribusiness	1 Credit
Agribusiness Management and Marketing	1 Credit
Agricultural Leadership, Research and Communication	1 Credit

Principles of Agriculture, Food, and Natural Resources
To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

Small Animal Management
Credit: .5
In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds.

Equine Science
Credit: .5
In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules.

Livestock and Poultry Production
To be prepared for careers in the field of animal science, students need to attain academic skills, acquire knowledge related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, etc.
Certification Earned: Elanco Fundamentals of Animal Science (Tier 2 IBC)

Veterinary Science with Agricultural Lab and Field Experience
Credits: 2
This course offers a hands-on exploration of animal science, focusing on anatomy, health and management of livestock and companion animals. Students can learn practical experience through labs, fieldwork on farms or ranches, preparing them for veterinary careers.
Certification Earned: Elanco Vet Med Animal Applications (Tier 3 IBC)

Advanced Animal Science Dual Credit
Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

Practicum in Agriculture, Food and Natural Resources
Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster.

Agricultural Mechanics and Metal Technologies - Introduction to Welding
Credits: 2
Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. Student will earn an AWS certification.
Certification Earned: American Welding Society (Tier 2 IBC)

Agricultural Structures and Design - Welding I
Grades 10-12, Credits: 2
In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. Student will earn an AWS certification.
Certification Earned: American Welding Society (Tier 2 IBC)

Agricultural Equipment Design and Fabrication - Welding II
Grades 11-12, Credits: 2
Prerequisite: Ag Structures and Design - Welding I
In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. Student will earn an AWS certification.
Certification Earned: American Welding Society (Tier 2 IBC)

Floral Design
Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.
Certification Earned: Texas State Floral Association

Wildlife, Fisheries, and Ecology Management
To be prepared for careers in natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices.
Certification Earned: Ducks Unlimited, Hunter’s Education Certification

Food Technology and Safety
Food Technology and Safety is a Level 2 Texas CTE course in the Agriculture, Food, and Natural Resources cluster, focusing on the science behind food processing, preservation, packaging, and storage. Students explore safety regulations, foodborne illnesses, and industry sanitation practices. It prepares students for careers in food science and technology.
Certification Earned: Food Safety and Science Certification (Tier 3 IBC)

Professional Standards and Communications in Agribusiness
Professional Standards in Agribusiness primarily focuses on leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness. Must participate in a Spring/Fall FFA competition. Needs teacher recommendation for this pathway.

Agribusiness Management and Marketing (Offered 2027/2028)
This course provides a foundation for agricultural business management, focusing on economic principles, marketing strategies, budgeting, finance, risk management, and legal aspects of agribusiness. This 1-credit, career-technical education (CTE) course prepares students for roles in agribusiness. Must participate in a Spring/Fall FFA competition. Needs teacher recommendation for this pathway.

Agricultural Leadership, Research and Communication (Offered 2028/2029)
This course that develops advanced skills in leadership, research, and communication specifically for the agricultural industry. Students explore agricultural systems, analyze policies, and learn professional communication, including public speaking and media, while preparing for college and career opportunities in agriculture. Must participate in a Spring/Fall FFA competition Needs teacher recommendation for this pathway.

Business

Endorsement: Business and Industry	
Pathway: Business Management	
Career Opportunities: Business Owner, Entrepreneur, Accountant, Retail Management, Market Analysis	
Course	**Credits**
Foundations of Business Communications and Technology	1 Credit
Entrepreneurship I	1 Credit
Business Management	1 Credit
Practicum in Business or Career Prep	2 Credits

Foundations of Business Communications and Technology – BIM I
In Foundations of Business Communication and Technologies, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

Entrepreneurship I
In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Business Management
Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.
Certification Earned: Microsoft Office Specialist Certification in Excel or Word (Tier 2 IBC)

Practicum in Business
Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Career Preparation I and II
Grades 11 – 1 Credit, Grade 12 – 2-3 Credits
Career Prep offers two programs, one with a minimum of 10 working hours per week, and the other with a minimum of 15 working hours per week. This course provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. Students must have a valid Driver's License or ID Card to participate in the program. Employment must be within Wilson or Karnes Counties.

Printing & Imaging Technology I and II - Yearbook

In addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the printing industry with a focus on digital pre-press and digital publishing. Students in this course learn these skills with hands-on experience as they are responsible for the production of the school yearbook. They will learn to work as leaders and as a team as they manage the production process and business aspect of an actual publication. Students must have the recommendation of the yearbook teacher to enroll in this class. Production of the yearbook does require after-school activities on a regular basis and the completion of the yearbook can take several days into the summer.

Public Service - Healthcare

Endorsement: Public Service	
Pathway: Healthcare Therapeutics	
Career Opportunities: Doctor, Pharmacist, Nurse, Dentist, Patient Care Technician, Phlebotomy Technician, EKG Tech	
Course	**Credits**
Principles of Health Science	1 Credit
Medical Terminology	1 Credit
Anatomy and Physiology	1 Credit
Health Science Theory with Clinical	2 Credits
Practicum in Health Science or Career Prep	2 Credits

Principles of Health Science
The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry. This course is the pre-requisite for Medical Terminology and Anatomy unless prior approval by principal.

Medical Terminology
Prerequisite: Principles of Health Science
The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Anatomy and Physiology
Grades 10-12
Anatomy and Physiology is a course designed to understand the human body. The focus of the class is to get an understanding of each system and how they work together. The following topics will be studied: the energy needs of the human body and the processes through which these needs are fulfilled, the responses of the human body to internal and external forces, the processes that maintain homeostasis, the electrical conduction processes and interactions, the body's transport systems, environmental factors that affect the human body, comparing anatomical structures and physiological functions, and the process of reproduction, growth, and development.

Health Science Theory with Clinical
Credits Earned: 2
Grades 11-12
Prerequisite: Principles of Health Science, Medical Terminology and Anatomy
The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.
Certification Earned: Patient Care Technician (Tier 2 IBC)

Practicum in Health Science
Credits Earned: 2
Grades 12
In Practicum in Health Science, students apply previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students recognize the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science certification or licensure through further education and employment. Students must complete all four courses in this pathway to be eligible for this practicum.
Certification earned: EKG/Phlebotomy certification (Tier 2 IBC)

Sports Medicine 1
Grades 9-12 – Requires Approval of Athletic Trainer, Course will be offered 1st, 5th, and 8th periods for hands on experiences with student athletes
This course provides an in-depth study and application of the components of sports medicine including: CPR and AED certification, rehabilitative techniques; therapeutic modalities; prevention, recognition, and care of injuries to the head and face, spine, upper extremity, lower extremity; taping and bandaging; injuries to the young athlete; substance abuse in sports; and general health concerns in sports medicine. Individualized and independent assignments will be included in this course. This course will involve outside-of-class time homework and time required working with athletes and athletic teams. Students must receive the approval of the Licensed Athletic Trainer supervising the athletic training student staff.

Sports Medicine 2
Grades 10-12 – Requires Approval of Athletic Trainer, Course will be offered 1st, 5th, and 8th periods for hands on experiences with student athletes
This course will provide a logical progression for students that have advanced through the sports medicine courses and provide them an opportunity to apply the knowledge and skills they have gained to athletic injury recognition, evaluation, management, treatment, and rehabilitation through research investigations and applications related to sports medicine. The course will provide opportunities for advanced students in the sports medicine program to research, investigate, prepare, and present article reviews, case studies, research projects, visual poster presentation, and multimedia presentations on instructor-approved topics. The athletic training students will continue to perform the assigned duties and responsibilities in the operation of the athletic training room under the supervision of a licensed athletic trainer. These duties will provide the students opportunities to apply the knowledge and skills acquired in the sports medicine course curriculum. The required duties will be a portion of the grade earned in the course. Pre-requisite: Sports Medicine 1

Endorsement: Public Service	
Pathway: Teaching and Training	
Career Opportunities: Teacher, Teacher's Aide, Administrator, Counselor, Curriculum Director	
Course	**Credits**
Principles of Education and Training	1 Credit
Human Growth and Development	1 Credit
Instructional Practices	2 Credits
Practicum in Education or Career Prep	2 Credits

Principles of Education and Training
Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

Human Growth and Development
Human Growth and Development is a course that addresses knowledge and skills related to child growth and development from prenatal through school-age children. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children. This course also includes the Real Life Baby Project.

Instructional Practices (Coming 2027/2028)
Credits: 2
Instructional Practices is a field-based (practicum) internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with elementary, middle school, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

Practicum in Education and Training (Coming 2027/2028)
Credits: 2
Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students.
Certification Earned: Educational Aide I (Tier 2 IBC)

List of Common Articulated Dual Credit Courses

College Course	High School Course
ACNT 1303 Introduction to Accounting I	Accounting I A
ACCT 2301 Principles of Accounting	Accounting I B
ARTS 1301 Art Appreciation	Art A
ARTS 1303 Art History I	Art B
CRIJ 1301 Introduction to Criminal Justice	Introduction to Criminal Justice
CRIJ 1307 Crime in America	Crime in America
ECON 2301 Principles of Economics	Economics
ENGL 1301 Composition and Grammar	English 3 A
ENGL 1302 Composition and Rhetoric	English 3 B
ENGL 2322 British Literature	English 4 A
ENGL 2326 American Literature	English 4 B
GOVT 2305 American Government	Government
HIST 1301 US History Before 1865	US History A
HIST 1302 US History After 1865	US History B
HITT 1305 Medical Terminology I	Medical Terminology
MDCA 1302 Human Disease/Pathophysiology	Human Disease/Pathophysiology
MUSI 1306 Listening to Music	Music Appreciation
PSYC 2301 General Psychology	Psychology
SOCI 1301 Principles of Sociology	Sociology
SPCH 1311 Intro to Speech	Speech

*A – First Semester

*B – Second Semester

Dual Credit should be personalized based on the student's needs