

**STILLWATER HIGH SCHOOL**



**COURSE GUIDE**

# Agriculture Education



## Agriculture Education I (906)

Prerequisite: None

Grade level 10-12      1 credit

Agriculture education is a course in which students are exposed to a wide range of agricultural topics. These topics include breeds of livestock, basic soil sciences, public speaking, and basic ag-mechanics. An emphasis is also placed on world food problems and production. Through the National FFA Organization, students will have much interaction with the other agriculture education students state-wide, developing skills of citizenship and cooperation. Students are required to join the National FFA Organization (\$15.00).

## Agriculture Education II (907)

Prerequisite: Agriculture Education I

Grade level 10-12      1 credit

Agricultural Education II is a more advanced course that offers a wide variety of topics consisting of Animal Science, Plant Science, Natural Resources, Ag Mechanics and Farm Safety. This course is designed to help students find their interest in Agriculture so they can narrow their pathway into their Junior and Senior years.

## Agricultural Communications (911) FA

Prerequisite: Agriculture Education I

Grade level 10-12      1 credit

The study and development of comprehensive communication tools in the agriculture industry. Subjects covered in the course are: news releases, layout and design, speech and oral communication skills, graphic design, radio and television communication. All students are required to pay FFA membership dues (\$15.00).

## Ag Leadership and Personal Development (912)

Prerequisite: Agriculture Education I

Grade level 10-12      1 credit

This is a course that is designed to further develop leadership and personal skills. Content will include leadership theory and attributes, developing leadership skills, conflict resolution, planning and carrying out meetings, using parliamentary procedure, preparing and making speeches, organizing communication campaigns, managing tasks and teams, loyalty, personal appearance and health, and ethics. FFA and supervised experience will be included as appropriate. FFA membership is required.

## Power and Technology I, II, and III (900, 901, 902)

Prerequisite: Agriculture Education I

Grade level 10-12      1 credit

Curriculum provides information about the operation, maintenance, and use of agricultural power, electronics, electricity, agricultural machinery and equipment, structures and utilities, soil and water management, and agricultural mechanics, including welding and cutting.

## Animal Science (903)

Prerequisite: Agriculture Education I

Grade level: 10-12      1 credit

Students learn information, knowledge, and skills associated with careers in animal production and animal science. This curriculum provides laboratory, lecture, and competitive activities through the FFA to students interested in veterinary medicine, livestock production and nutrition, genetics, and laboratory techniques. FFA membership is required.

## Wildlife Science & Management (908)

Prerequisite: Agriculture Education I

Grade level 10-12      1 credit

Wildlife Science & Management directly deals with the Natural resources in which we live with on a daily basis.

This course is designed to teach students about the importance of our Oil and Natural Gas industry as well as teaching the importance of wildlife in Oklahoma and around the country.

## Intro to Plant and Soil Science (909)

Prerequisite: Agriculture Education I

Grade level 10-12     1 credit

Intro to Plant and Soil Science is designed to teach the structure of plants and the materials in the soil that allow plants to reach their full potential. This class will also be an introduction course for the Greenhouse and encourage students who have an interest in Horticulture.

## Introduction to Horticulture (910)

Prerequisite: Agriculture Education I

Grade level 10-12     1 credit

Introduction to Horticulture is designed as the intro level course that teaches the parts of a plant as well as introduction to the greenhouse and Natural resources.

## Landscape & Nursery Production (904)

Prerequisite: Agriculture Education I

Grade level 10-12     1 credit

Landscape & Nursery Production is a Greenhouse based course that directly deals with how to operate a plant nursery and the proper landscape skills needed to operate your own business.

## Greenhouse Production & Floral Design (905)

Prerequisite: Agriculture Education I

Grade level 10-12     1 credit

Greenhouse Production and Floral Design teaches the maintenance and production sides of running a greenhouse as well as the techniques and salesmanship to become a florist.

## Natural Resources (942)

Prerequisite: Agriculture Education I

Grade level 10-12     1 credit

The study of Native plants and animals, as well as the use and conservation of the resources that we are given in agriculture.

## Family and Consumer Sciences



### FCS Advanced (913)

Prerequisite: None

Grade level 10-12     1 credit

This is a comprehensive study intended to generate basic knowledge and skills in child development, clothing and textiles, consumer education, food and nutrition, housing and home furnishings, and personal and family relationships. Attention is also focused toward assisting students in career study and participation in the FACS youth organization, Family, Career and Community Leaders of America. Clothing and food labs are utilized.

### Interpersonal Studies (915)

Prerequisite: None

Grade level 10-12     .5 credit

This in-depth study is designed to provide knowledge of family life and factors that influence lifestyles and decisions. Attention is focused on marriage and family skills, life choices, parenthood, and family changes. Marriage and Family Life is intended as the basic core from which students gain the knowledge to develop relationships effectively and deal with the many relationships that are a part of everyday life.

### Culinary and Food Science (917)

Prerequisite: None

Grade level 10-12     .5 credit

Food Science and Personal Nutrition is a specialized course designed to prepare students to make important decisions regarding nutrition and wellness with assurance and competence. Students will learn the nutrient value, appetite appeal, social significance, and cultural aspects of food. The preparation of food will be a focus of the course.

## Culinary and Food Science II (923)

Prerequisites: Food Science and Person Nutrition

Grade level 10-12 .5 credit

This is a sequential course that builds on the concepts taught in Nutrition, Food & Wellness. Topics will include more complex concepts in foods and nutrition including a study of international and cultural foods; meal planning and preparation for specific economic, psychological, and nutritional needs; advanced impacts of science and technology on nutrition, food, and related equipment; specific food preparations including baking and catering; and exploring community and world food concerns as well as the "green" impact of the food industry. Laboratory experiences with advanced application will be a major component of the course.

## Human Growth & Development (920)

Prerequisite: None

Grade level 10-12 .5 credit

This in-depth study is designed to provide basic knowledge of child development as well as develop skills necessary to care for children and promote children's development, child health, first aid, and nutrition; plus information and activities in guiding children's behavior and meeting the needs of special age groups. Careers in child care are explored.

## Intro. to Fashion Design and Merchandising (921)

Prerequisite: None

Grade level 10-12 .5 credit

A specialized course designed to prepare students to evaluate textile and apparel selections in the terms of social, cultural, and psychological influences. Instruction will focus on applying knowledge of fibers, fabrics, and design when evaluating textile products; understanding the basics of market economics in relation to textiles, design, and promotion; and analyze career options within the fashion industry. Students will have the opportunity to demonstrate leadership, citizenship, and teamwork skills required for success in the family, workplace, and global community through FCCLA.

## Fashion Design and Apparel Production (914)

Prerequisite: Intro. to Fashion Design

Grade level 10-12 .5 credit

This is a comprehensive study designed with updated content areas of clothing and textiles for today, the developing preschool-age child, housing and family lifestyles, financial fitness in the home, human ecology, and food science. Attention is also focused toward assisting students with understanding a career ladder and assuming leadership roles.

## Fine Arts/Visual

Communication and Information Systems



## Fine Arts (751)

FA OP

Prerequisite: None

Grade level 10-12 .5 credit

This basic class includes an introductory hands-on exploration of drawing, color, painting, and an understanding of the elements, principles, and mediums used to make up good composition. It also gives an overview of art history and music history.

## Art II (752)

FA OP

Prerequisite: An A or B in Art I, Portfolio Art, Fine Arts class

Grade level: 10-12 1 credit

A class designed for students who seriously want to improve their observation and technical skills in order to produce quality work. Drawing ability and a background in understanding the principles and elements of composition are required. Strong emphasis is placed on learning human proportions and drawing the human form from life. Learning to intelligently critique each project is required. Serious and creative practices are involved through the use of charcoal, pencils, mixed media, acrylic, watercolor and oil.

## Art III (753)

FA OP

Prerequisite: An A or B in Art II or teacher approval.

Grade Level 10-12 1 credit

Students will focus on advance drawing methods. Those methods will include Ebony, Color pencil, and Charcoal. Work will be directed towards completed projects and building a series of work for a portfolio. Students will also be exposed to rudimentary print making processes.

## Advanced Placement Art (755) FA OP

Prerequisites: An A in Art II and Art III and/or teacher approval.

Grade level 11-12 2 credits

A.P. Studio Portfolio Art is a college level art class that is 36 weeks and requires 24 quality completed pieces using different mediums, approaches and themes. Twelve of the pieces must concentrate on one area of interest and the other 12 pieces must show variety. A digital submission of the entire portfolio will be sent in plus five of your best pieces must be matted and sent off for grading to college boards the first week of May. A student may receive 3 to 6 hours of college credit depending upon their portfolio grade.

## Sculpture Ceramics I/II (756/757) FA

Prerequisite: None/Ceramics I

Grade level 11-12 .5 credit

Students will complete a series of projects that include pinch, coil, slab construction, and simple wheel work. This ceramic course is totally involved with clay.

## Painting I/II (758/759) FA

Prerequisite: None

Grade level: 10-12 .5 credit

A studio class designed to expose the student to a variety of painting styles, techniques, and media including acrylic, watercolor, gouache, oil, ink, mixed media, and non-traditional media with a focus on portfolio development. Advanced drawing skills and an excellent knowledge of effective composition are preferred. Previous art classes are not required but are encouraged. This course satisfies the Fine Arts

requirement. **Additional Costs/Fees:** \$30 (this includes paint and basic supplies, students will need to provide their own brushes)

## Advanced Drawing (760/761) FA

Prerequisite: An A or B in Art II or teacher approval.

Grade level 11-12

A studio class designed for students who want to move from basic drawing skills to a more advanced understanding of the Elements of Art and Principles of Design with greater skill development. The course explores drawing concepts, whole class drawing, sustained individual drawing, and further introduction to concepts in visual design with an emphasis on portfolio development. Students are given more in depth problems to solve creatively while becoming more adept through exposure to a variety of drawing media. This course satisfies the Fine Arts requirement. **Additional Costs/Fees:** \$30

## Fine Arts/Performing



## Music Appreciation (763) FA OP

Prerequisite: None

Grade level 10-12 .5 credit

This class aims to develop perceptive listening skills and will require that you are open to music from a wide variety of cultures. The format requires strong reading, reasoning and listening skills. At the conclusion of the course, students should have a broader understanding of music from different cultures, time periods, and styles. Students will discover the way in which musicians use musical elements to communicate human emotions, experiences and celebrations.

## Pioneer Chorale (765) FA OP

Prerequisites: Audition; Director Approval.

Grade level 10-12 2 credits

Members of this choir make the commitment to a thirty-six (36) week enrollment. This ensemble serves as the

core organization of the Vocal Music Department. Auditions for the Pioneer Chorale are conducted in the Spring of the previous school year. Primarily an a cappella choir, students' study and perform music ranging from the Renaissance to current. Chorale members are responsible for the care and upkeep of a formal uniform and informal uniform. The Pioneer Chorale has multiple performance requirements and all members are expected to make all performances.

## Concert Choir (766) FA OP

Prerequisites: Audition; Director Approval.

Grade level: 10-12 2 credits

Members of this choir make the commitment to a thirty-six (36) week enrollment. Auditions for the Concert Choir are conducted in the Spring of the previous school year. Students study and perform music ranging from the Renaissance to contemporary music theatre performing acapella, with accompaniment tracks and with live accompaniment. Concert Choir has multiple extra-curricular community performance requirements and members are expected to make all performances and rehearsals as scheduled.

## Concert/Marching Band (767) FA OP

Prerequisites: Instructor approval.

Grade level: 10-12 2 credits

The marching band will participate in marching contests, parades, and football games during the first nine-week term of the school year. The marching band will have extra rehearsals during zero hour. All students in marching band must attend band camp during the first two weeks prior to school and any additional rehearsals scheduled by the instructors. For concert season, the band will be divided by audition into Wind Ensemble and Concert Band. Emphasis is placed on continued development of musicianship. Student participation in honor bands and solo/ensemble contests is emphasized. Both Wind Ensemble and Concert Band will perform concerts and enter OSSAA-sanctioned music festivals and contests. Ensemble organizations which exist within this framework are jazz ensemble, pep band, chamber ensembles, and the orchestra wind and percussion section. Section rehearsals will be scheduled for Wind Ensemble and Concert Band during zero hour. Major trips to music activities are scheduled at the discretion of

the director and the approval of the administration. This is a year-long course. Because of the performance nature of this class, students must remain enrolled for the entire year. Any deviation from this must be approved by the director. A full year of this course fulfills both the music component and the visual component of the fine arts requirement.

## Symphony Orchestra (768) FA OP

Prerequisites: Enrollment in previous school year and/or Instructor approval/audition.

Grade level 10-12 2 credits

This class involves the study and performance of all forms of orchestral literature from Baroque to 20th Century music. Emphasis is placed on continued development of musicianship. Student participation in honor regional/state honor groups and solo/ensemble competition is encouraged. The orchestra will compete as a group in state-level contests during the year.

## Color Guard (769)

Prerequisites: Audition; Director Approval.

Grade level: 10-12 1 credit

The color guard is a part of the marching band. Individuals in color guard will spin flag, dance, and may learn rifle and sabre. The color guard participates with the marching band at contests, parades, and football games during the first part of the school year. The color guard has extra rehearsals during zero hour. Following marching season, students are encouraged to participate in winter guard, which rehearses outside of class time. For the remainder of the semester, individuals who do not participate in concert band will be expected to complete any administrative tasks set forth by the directors. Students involved in color guard must attend band camp during the two weeks prior to school and any additional rehearsals scheduled by the instructors.

## AP Music Theory (770) FA OP

Prerequisites: A/B in Performing Music Class (Band, Chorale, or Orchestra).

Grade level: 11-12 1 credit



This course is designed as an introduction to Music Theory. Guided by the materials covered on the College Board exam, students will focus their study on the concepts of notation, rhythm, harmony, musical form, ear training, and rhythmic, melodic, and harmonic dictation. This course prepares the student to take the optional AP Music Theory exam in the spring. Students are responsible for individual testing fees.

## Music Composition & Arranging (771)

FA OP

Prerequisites: AP Music Theory

Grade level: 11-12 1 credit

This course will further explore the concepts of music theory. Students will complete several musical compositions and arrangements for a variety of ensembles under the parameters set by the instructor. Students will also assume a leadership role within the AP Music Theory classroom, working with their peers enrolled in AP Music Theory class to help them understand basic theoretical concepts.

## Acting (720) FA OP

Prerequisites: None

Grade level: 10-12 1 credit

This course introduces students to acting skills and the fundamental techniques for creating a character through a series of lab activities and classroom performances. Areas of emphasis include an exposure to dramatic literature, improvisation, voice, movement and production responsibilities. Much of the assigned work is in the form of group activities and demands cooperation, commitment and planning on the part of the student involved.

## Advanced Acting (721) FA OP

Prerequisites: Acting I or teacher approval.

Grade level: 10-12 1 credit

This advanced course allows students to take Acting multiple times. Students build upon basic skills learned in Acting I. In addition, they will analyze scripts from both classic/contemporary pieces, work on audition material, explore playwriting/directing, and experience a variety of

types of drama. They will work collaboratively on a variety of projects that introduce them to different staging techniques, acting, and directing challenges in the performing arts. Students will also prepare portfolios and audition pieces. Attention is given to both individual and partnered performances. Outside performances are required whenever a venue is available.

## Tech Theater and Design (746) FA OP

Prerequisites: None

Grade level: 10-12 1 credit

Students in the Technical Theater and Design class are introduced to the main production areas of performance art. Through hands-on experience they learn the basics of set and prop construction, light and sound operation, costume creation, and makeup application. They also experience the design process and learn basic management and publicity skills. Students apply these skills by assisting with a variety of events that are scheduled in the Performing Arts Center which **does require a large amount of evening and weekend time.**

## Adv. Tech Theater & Design (747)

FA OP

Prerequisites: Technical Theater and Design

Grade level: 10-12 1 credit

Students in the Advanced Technical Theater and Design course build upon basic skills learned in the previous course. They are encouraged to select areas of specialization and to begin developing a portfolio of their work. They are given more opportunity to take on leadership roles in the staffing of Performing Arts Center events.

## Language Arts



Communication and Information Systems



Business, Marketing and Management



Human Services and Resources

### English II (100) **NCAA OP**

Prerequisites: Successful completion of English I

Grade level: 10      1 credit

English II focuses on a survey of World Literature that includes short stories, biographical and autobiographical essays, novels, poetry, and drama. Accompanying the literature study is a variety of formal and informal writing activities, grammar, and vocabulary lessons.

### Advanced English II (101) **NCAA OP**

Prerequisites: A/B in English I (strongly recommend, but not required)

Grade level: 10      1 credit

Advanced English II focuses on a survey of world literature that includes short stories, essays, novels, poetry, and drama. Accompanying the in-depth literature study is a variety of writing assignments, both formal and informal. The course is designed for serious students who recognize the value and enjoyment of studying language and literature. The goal is to prepare students for success in future AP English courses/exams as well as in their collegiate endeavors.

### English III (103) **NCAA OP**

Prerequisites: Successful Completion of English II

Grade level: 11      1 credit

English III focuses on a study of American Literature that includes short stories, novels, poetry, drama, and assorted non-fiction. Accompanying the literature study is a comprehensive vocabulary section and a variety of writing, both formal and informal. Grammar is studied in conjunction with writing.

### Advanced Placement English III (104)

**NCAA OP**

Prerequisites: A/B in English II (strongly recommended but not required)

Grade level: 11      1 credit

The AP English Language course focuses on honing close reading and formal academic writing skills through the study of nonfiction texts. Taught at the level of a Comp 1 college class, the curriculum centers around the rhetorical analysis, argumentation, and synthesis. The ability to read and analyze difficult texts, deliver a speech, write an essay in a timed setting, and synthesize multiple perspectives are skills that will be taught and assessed throughout the semester. Students should expect prolonged assignments and projects to prepare and practice these skills. Students may take the optional AP test in May; students are responsible for testing fees. Depending on the student's test score and choice of university, he or she may earn 3-6 semester hours of college credit.

### English IV (105) **NCAA OP**

Prerequisites: Successful Completion of English III

Grade level: 12      1 credit

English IV offers a comprehensive study of literature in which students will analyze and discuss novels, short stories, poetry, drama, and non-fiction pieces. Major works include 1984, Macbeth, and The Alchemist. Students also write compositions that will prepare them for a college writing experience: definition essay, literary analysis essay, argumentation research paper, and creative non-fiction. The seniors will also have an opportunity to explore creative writing through poetry.

### Advanced Placement English IV (106)

**NCAA OP**

Prerequisites: A/B in English III (strongly recommended but not required).

Grade level: 12      1 credit

Advanced Placement English IV aligned with the requirements outlined in the AP Literature and Composition Course Description. Reading and writing experiences are similar to those commonly found in an introductory college literature and composition course. Students are expected to commit to a regimen of nightly reading, annotation, and study. While the traditional



canon of British literature is emphasized, students will also study American and world literature selections. Greek and Roman mythology is also a component of this course. Essays, Socratic discussions, quizzes, and unit tests are the primary forms of assessment. All students may take an optional AP test in May. Depending on the student's test score and choice of university, s/he may earn 3-6 semester hours of college credit. Student is responsible for all testing fees.

## English Language Learners-ELL (197)

Prerequisites: Placement Test on file. Teacher permission required for entry and exit.

Grade level: 10-12 1 credit

ELL is designed to allow language learners to meet with other students who have the same language needs. Class instruction is strictly in English and the class meets every day for one class period as part of the student's regular schedule. Instruction includes a variety of methods to promote English proficiency, concentrating on vocabulary, grammar, pronunciation, reading, writing, and American cultural awareness activities. The strengths and needs of the individual students will determine the depth and pace of instruction. Students are encouraged to reinforce their primary language and incorporate English practice in the areas of listening, speaking, reading, comprehension and writing. Formal English proficiency assessment will occur once during the year. When a student shows proficiency in all five areas mentioned above, they will be notified that they may discontinue the ELL class.

## Mathematics



## Algebra I (302) NCAA OP

Prerequisites: Pre-Algebra.

Grade level 10-12 1 credit

This course is required for high school graduation and is the first of three math classes students must pass. Topics covered will include: integers, equations, inequalities, graphing and applications.

## Geometry (304) NCAA OP

Prerequisites: Algebra I

Grade level 10-12 1 credit

This is a college preparatory class and a prerequisite for Algebra II. Topics include theorems, deductive and inductive reasoning, three dimensional concepts, constructions, area, volume, and coordinate Geometry, and an introduction to trigonometric relationships.

## Intermediate Algebra (311)

Prerequisites: Geometry

Grade level 10-12 1 credit

This course is not a college preparatory course. It will review topics from Algebra I and Geometry and try to add some depth to the understanding of these courses.

## Algebra II (305) NCAA OP

Prerequisites: Geometry

Grade level 10-12 1 credit

This is a college preparatory course which is an extension of Algebra I and Geometry. Topics include a review of Algebra I, quadratic equations, sequences and series, exponential and logarithmic functions, complex numbers and other functions.

## Advanced Algebra II (312) NCAA OP

Prerequisites: Strong mathematics background and A/B in Geometry.

Grade level 10-12 1 credit

This course prepares you for our Trig/PreCalculus, AP Calculus and AP Statistics classes. It will cover the topics in our Algebra II class in greater depth and include topics such as matrices, conic sections, and piecewise functions.

## Algebra III (307) NCAA OP

Prerequisites: Algebra II

Grade level 10-12 1 credit

This course was designed for college bound students. The purpose of the course is to deepen the students

understanding of topics from Algebra II and will also cover a study of matrices and conic sections.

## Trigonometry/PreCalculus (306)

**NCAA OP**

Prerequisites: Algebra II

Grade level 10-12    1 credit

This course includes a traditional study of circular and trigonometric functions and their applications and extends the topics of Algebra II, including an in-depth analysis of functions to prepare the students for Calculus.

## Advanced Placement Calculus (308)

**NCAA OP**

Prerequisites: Grade of C or higher in previous mathematics courses

Grade level: 11-12    1 credit

Description of Course: This course includes the study of limits, continuity, differentiations, methods of definite and indefinite integration of algebraic and transcendental function, parametric equations, and plane analytical geometry. This course prepares the student to take the optional AP Calculus exam at the end of the course.

## Advanced Placement Statistics (309)

**NCAA OP**

Prerequisites: Algebra II

Grade level 10-12    1 credit

An introductory course that is appropriate for all college-bound students. Probability is the basis for mathematical models of situations in the sciences; statistics is the art of gathering, analyzing, and making inferences from data. This course prepares the student to take the optional AP Stat exam at the end of the course.

## Business Calculus (310)

Prerequisites: Algebra II

Grade level 10-12    1 credit

This calculus course is designed to introduce calculus topics using business applications when possible. The course will cover limits, differential calculus and integral calculus. This course differs from the AP Calculus course because it doesn't cover trigonometric functions from a calculus perspective and will not prepare students to take the AP exam.

## Science



## Physical Science (400) **NCAA OP**

Prerequisites: None

Grade level 10-12    1 credit

This course involves the study of the basic principles of physics and chemistry. The use of laboratory experiences, mathematical problem-solving, and engineering projects are incorporated to teach the principles and interactions of matter and energy. It serves as a prerequisite for many other science courses.

## Biology (401) **NCAA OP**

Prerequisites: Physical Science

Grade level 10-12    1 credit

This course is designed to introduce high school students to Earth's biodiversity, the ways in which these living organisms function, and also how they interact with each other in their environments. Topics covered include (but are not limited to) Ecology, Biochemistry, Cell Biology, Energy Transfer, Cell Division, Genetics, and Evolution.

## Advanced Placement Biology (405)

**NCAA OP**

Prerequisites: Physical Science

Grade level 10-12     1 credit

This course is intended to be the equivalent of college-level introductory biology, and students will be held to those high expectations regarding personal responsibility and engagement. Students are provided with opportunities to develop a deeper understanding of the concepts covered in Biology, with a greater application of mathematics/statistics. Additional outside readings, homework assignments, and independent/group projects are required. The course is centered around College Board's AP Biology Curriculum Framework, which can be summarized by the following Big Ideas: The process of evolution drives the diversity and unity of life, biological systems utilize free energy and molecular building blocks to grow, reproduce and maintain dynamic homeostasis, how living systems store, retrieve, transmit and respond to information essential to life processes, and biological systems interact, and these systems and their interactions possess complex properties. A score of 3 or better can earn college credit.

## Chemistry (408) **NCAA OP**

Prerequisites: Physical Science, Algebra II recommended.

Grade level: 10-12     1 credit

This course includes unit analysis, phases of matter, properties and structure of atoms and molecules, moles, stoichiometry, chemical bonding, properties of gases and gas laws and properties of solutions. Emphasis centers on mathematical problem solving and laboratory experiences.

## Advanced Placement Chemistry (411)

**NCAA OP**

Prerequisites: Chemistry and Algebra II

Grade level 11-12     1 credit

This course, a continuation of Chemistry, is equivalent to a college-level, introductory chemistry course offered to advanced and interested students. The course integrates science practices with the six big ideas of chemistry: structure of matter, bonding and intermolecular forces, chemical reactions, kinetics, thermodynamics, and chemical equilibrium. There will be a fee if students choose to take the College Board AP

Chemistry test in May. A score of 3 or better can earn college credit.

## Human Anatomy & Physiology (406)

**NCAA OP**

Prerequisites: Biology, with a grade of C or better

Grade level 10-12     1 credit

Advanced science course covering the ten major human organ systems. Outside readings and research projects may be required. Laboratory assignments may include dissections, microscope work, and forensic studies. Geared toward college bound students preparing for health-related careers. Many of the assignments require internet use. Students will need regular access to a computer and internet.

## Zoology (407) **NCAA OP**

Prerequisites: Biology, with a grade of C or better

Grade level 10-12     1 credit

This advanced science course is a study of the animal kingdom using the foundations provided by biology. All phyla of animals will be explored using diagrams, labs, and dissections. Students learn to develop an understanding of family relationships among animals and how the great diversity of animals arose.

## Physics (409) **NCAA OP**

Prerequisites: Physical science and Trig.

Grade level 11-12     1 credit

Physics is the study of the nature and properties of matter and energy. We will investigate how matter interacts through forces and how energy is transformed as a result of those interactions.

## Advanced Placement Physics (410)

**NCAA OP**

Prerequisites: Algebra 2 and excellent math skills

Grade level 11-12     1 credit

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based

investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. There will be a fee if students choose to take the College Board AP Physics test in May. A score of 3 or better can earn college credit.

## Environmental Science (412) **NCAA OP**

Prerequisites: None

Grade level 10-12     1 credit

Environmental Science is an interdisciplinary science that integrates concepts from earth science, biology, chemistry, and physics. In this class, students investigate ecosystem interactions and energy dynamics within ecosystems. Earth's systems and materials are explored as well as the influence humans have on those systems.

## Advanced Placement Environmental Science (414) **NCAA OP**

Prerequisites: Biology and Chemistry are recommended.

Grade level 11-12     1 credit

This course is the equivalent of an introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. There will be a fee if students choose to take the College Board AP Environmental Science test in May. A score of 3 or better can earn college credit.

## Forensic Science (413) **NCAA OP**

Prerequisites: Biology and Physical Science

Grade level 11-12     1 credit

Forensic Science integrates concepts in chemistry, zoology, anatomy, genetics, physics, medicine, mathematics, and social science. Process skills are stressed as students design and carry out investigations

in blood spatter analysis, chromatography, fiber analysis, document analysis, fingerprinting, and other procedures designed to simulate crime scene evidence. The fundamental objective is to teach the basic processes and principles of scientific thinking so students can learn to apply them to situations in any field.

## Genetics (403) **NCAA OP**

Prerequisites: Biology with a grade of C or better.

Grade level 11-12     1 credit

This advanced science course is designed to give the students an overview of genetics regarding development, mendelian inheritance, population genetics, and genetic technologies. Case studies are explored as well as developing real life scenarios to genetic problems.

## Geology (417) **NCAA OP**

Prerequisites: None

Grade level 11-12     .5 credit

This nine-week course gives the students a crash course on what our Earth is, what it is made up of and how it is changing constantly. This is accomplished by covering the following units: Earth's structure and movement, volcanoes, earthquakes, rocks and minerals, weathering and erosion, and mass movements and glaciers.

## Meteorology (418) **NCAA OP**

Prerequisites: None

Grade level 11-12     .5 credit

This nine-week course delves into the world of meteorology and all of the aspects that encompass it. During this course, students will study the following units: Earth's atmosphere, energy transfer, atmospheric moisture, and atmospheric circulation.

## Astronomy (419) **NCAA OP**

Prerequisites: None

Grade level 11-12     .5 credit

This nine-week course is an overview of the universe that introduces students to objects found in and around our solar system and galaxy. Topics covered in this

course include: the sun, stars and galaxies, the moon, planets, celestial objects, and space exploration.

## Oceanography (420) **NCAA OP**

Prerequisites: None

Grade level 11-12 .5 credit

In this nine-week course, students will get an introduction to all of the parts involved when studying the ocean. Units include a basic overview, salinity and how it differs from saltwater, the topography of the ocean floor, currents and tides, and marine life.

## Social Studies

Communication and Information Systems



Business, Marketing and Management



Human Services and Resources



## World History (204) **NCAA OP**

Prerequisites: None

Grade level 10-12 1 credit

Description of Course: The student will review ancient and classical history to the modern era with an emphasis on philosophical and religious contributions. Students will study the European Renaissance and Reformation, various revolutionary movements, the Industrial Revolution, the world created by the World Wars, and recent contemporary events and issues.

## Advanced Placement World History (205) **NCAA OP**

Prerequisites: Strong grades in social studies classes

Grade level 10-12 1 credit

This course is challenging and is designed for students who wish to work at advanced levels. The course will focus on the world since 600 C.E., but it will start with a "Foundation" unit that begins approximately 8000 B.C.E. The course relies heavily on college-level texts, primary source documents, and outside readings. Students will be required to participate in class discussions, as well as, group and individual projects. A special emphasis will be given to historical writing. Students will write responses to document-based questions, comparison

questions, and questions involving change and continuity over time. There will be a fee if the AP World History test is taken and the opportunity to earn college credit based on score.

## American History (200) **NCAA OP**

Prerequisites: None

Grade level 11 1 credit

The student will describe and analyze effects of the Reconstruction Era amendments, examine the impact of immigration and the settlement of the American West on American society. The economic effects of industrialization and the changing role of the United States in world affairs at the turn of the twentieth century will be evaluated. The student will also describe the social, cultural, and economic events between the World Wars, investigate the Great Depression, and the causes, events and effects of World War II. Foreign and domestic policies of the United States since World War II will be assessed, concluding with an examination of the 9/11 attacks on New York City and Washington D.C.

## Advanced Placement US History (202)

**NCAA OP**

Prerequisites: World History, 3.5 overall GPA.

Grade level 11 1 credit

The course covers American History from Pre-Columbian times until the present. Students will utilize the text, study guide, and related readings as primary resources for the course. Students will be able to take an examination in May which will can qualify them to receive college credit. The course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States History. There will be a fee if the AP US History test is taken and the opportunity to earn college credit based on score.

## Criminology (206) **NCAA**

Prerequisites: None

Grade level 11-12 .5 credit

This course is ideal for those students interested in studying crime and criminals. This class covers law, law



enforcement, criminal justice and prison systems. This course also covers various theories of why people commit crimes and the measurement and impact of crime upon our society.

## Psychology (207) **NCAA**

Prerequisites: None

Grade level 11-12     1 credit

Psychology is the scientific study of thought and behavior. Taking a psychology course in high school can teach you how to be a better student, prepare you for any career, and help you better understand your world.

Psychology classes for high school students typically cover several important aspects such as the history of psychology, research methods, classification and treatment of disorders, and more.

## Sociology (208) **NCAA**

Prerequisites: None

Grade level 11-12     .5 credit

This course is a study of human behavior in groups. students will also study the history of sociology, the main theories explaining social behavior as well as culture, social structure, and socialization. Depending on the interests of the students, other subjects explored may include family, sports, deviant behavior, religion, education, population, urbanization, and inequalities of race, ethnicity, age or sex. Course content also includes guest speakers.

## US Government (211) **NCAA OP**

Prerequisites: None

Grade level 10-12     .5 credit

This course includes a study of the basic structure and processes of government in America. Students will study foundations of government, political life, legislative branch, executive branch, judicial branch, and aspects of state and local government. This course will fulfill 1/2 unit of the citizenship skills required for college admissions in Oklahoma by the state regents.

## Oklahoma History (212) **NCAA OP**

Prerequisites: None

Grade level 10-12     .5 credit

This is the study of Oklahoma's rich heritage both before and after statehood. Our natural resources, economy, current events, and especially the men and women who have contributed to our state's development are emphasized throughout this course.

## Advanced Placement Government (209)

**NCAA OP**

Prerequisites: None

Grade level 11-12     1 credit

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they complete a political science research or applied civics project.

## Advanced Placement Human Geography (210) **NCAA OP**

Prerequisites: None

Grade level 11-12     1 credit

This course will prepare students to take the AP exam in May and is the equivalent of a semester college course. Human Geography covers the cultural as well as economic aspects of geography. It incorporates history, economics, government, physical geography, and sociology in a discussion and issue driven class.

## Technology Education





## Computer Applications (606) OP

Prerequisites: None

Grade level 10-12 .5 credit

Computer Applications is an introductory course for students with limited computer experience. Students will develop skills that will assist them as they complete high school and enter the next phase of their lives whether it be college, the military, or the workforce. Skills learned and topics covered include Microsoft 2010 Word, PowerPoint, Excel, and Publisher; e-mail; social media; computers as a presentation tool; and other relevant topics.

## Computer Applications II (612) OP

Prerequisites: None

Grade level 10-12 .5 credit

Computer Applications 2 is an intermediate course that provides students with opportunities to enhance their computer technology, decision-making, productivity communications, and problem-solving skills & experience. Areas of instruction include advanced, real-world computer applications and emerging technologies. Areas of study will also include oral and written communications and information research for reporting purposes. Classroom activities include class discussion, reading, writing, note-taking, projects, and problem-solving. Major projects will be presented to the class individually.

## Computer Applications for College (613) OP

Prerequisites: None

Grade level 11-12 .5 credit

With a heavy emphasis on using technology tools for research & analysis, college-bound students will research how to be better prepared for the transition to college, including: college terminology, choosing the right school & program, writing college admission/scholarship essays, budgeting, and surviving & thriving in college. Students will collaboratively use Internet-based tools, office productivity software, and mobile applications in this course for problem-solving real-world issues and open-ended inquiry. The course

will help students find technology applications to help them prepare for college and learn about making a successful transition from high school to college.

## Multimedia (605) OP

Prerequisites: Basic computer skills

Grade level 10-12 .5 credit

Multimedia projects using both video and audio editing programs will be assigned. The projects will be both educational and entertainment oriented. Various video projects and audio editing projects will be designed by students. Different software packages will be used to give the students a wide range of experiences.

## Elements of Web Design (607) OP

Prerequisites: None

Grade level 10-12 .5 credit

This course is designed to provide students with a project-based, well-rounded, and reasonably intense education in web design in a setting that will focus heavily on application of knowledge. Students will learn elements of good web page/site design, fundamentals of HTML, and efficient use of the Macromedia 8 suite.

## Intermediate Web Design (608) OP

Prerequisites: Elements of Web Design with an A/B, or demonstrated mastery of HTML.

Grade level 10-12 .5 credit

Students will go deeper into the concepts of CSS, JavaScript. The course will begin with a fast-paced review of HTML. Students will develop programming techniques useful in today's web design. JavaScript will be used for various projects including a small introduction to game programming.

## Advanced Web Design (609) OP

Prerequisites: Completion of Intermediate Web Design with an A, completion of Algebra II.

Grade level 10-12 .5 credit

Students will aid in teaching others the basics of HTML, PHP, CSS, and JavaScript. Also, students will study PHP (with MySQL) and JavaScript in depth with a heavy

emphasis on programming and programming theory. As Elements of web Design and Intermediate Web Design will concur with Advanced Web Design, students will be asked to take a leadership role in the peer tutoring of other students in their projects. Upon completing this course students should have the skills to create a shopping cart for internet sales complete with database management.

## Microsoft Excel (611) OP

Prerequisites: None

Grade level 10-12 .5 credit

Excel is a computer applications course designed to teach the proficient use of electronic spreadsheets, charts, and databases. This software is used extensively in colleges and businesses today.

## Advanced Multimedia (712) OP

Prerequisites: Multimedia or other experience in video editing.

Grade level 11-12 1 credit

This course will consist of advanced audio and videography. Emphasis is placed on laboratory elements of scripting, lighting, audio, camera, switching, editing, character generator, and chromakey. Practical experience in producing video projects is emphasized. Students will be required to perform some videoing of outside events. \*BROADCAST LAW AND ETHICS - Current issues including First Amendment law, libel, slander, obscenity, copyright, etc. will be discussed.

## Broadcasting I (713) OP

Prerequisites: A or B in Advanced Multimedia and Teacher approval.

Grade level 11-12 1 credit

Broadcasting I is a video production lab class. Students in Broadcasting 1 work in groups to learn video production skills. The groups produce a weekly program that will be posted on the web site and shown in the classrooms. They will get progressively more sophisticated through the semester. The videos are viewed in class and critically analyzed. Students leave the class with practice in planning, shooting, and editing video. Students will be producing a short movie using

the techniques learned in Advanced Multimedia. Professional techniques, work ethic, attendance, participation, and meeting of deadlines are stressed! Outside event filming required.

## Broadcasting II (714) OP

Prerequisites: A in Broadcasting I and Teacher approval

Grade level 11-12 1 credit

Broadcasting II is a video production lab class and is a continuation of Broadcasting I. Students in Broadcasting II work in groups to learn video production skills. The groups produce a weekly program that will be posted on the web site and shown in the classrooms. They will get progressively more sophisticated through the semester. The videos are viewed in class and critically analyzed. Students leave the class with practice in planning, shooting, and editing video. Students will be producing a short movie using the techniques learned in both Advanced Multimedia and Broadcasting I. Professional techniques, a work ethic, attendance, participation, and meeting of deadlines are stressed! Outside event filming required.

## Broadcasting III (715) OP

Prerequisites: A in Broadcasting II and Teacher approval.

Grade level 11-12 1 credit

Broadcasting III is a video production lab class and is a continuation of Broadcasting II. Professional techniques, a work ethic, attendance, participation, and meeting of deadlines are stressed! Outside event filming is required of the students.

# World Languages



## Spanish I (500) **NCAA OP**

Prerequisites: Strong English skills

Grade level 10-12 1 credit

Spanish I strives to integrate and develop the American Council on the Teaching of Foreign Language's five content areas: communication, cultures, connections, comparisons, and communities (the five c's). The course covers basic grammar and vocabulary and develops basic listening and reading skills. Students begin to communicate in basic spoken and written Spanish. Cultural information is also part of the course.

## Spanish II (501) **NCAA OP**

Prerequisites: C or higher in Spanish I

Grade level 10-12 1 credit

It is imperative for the Spanish II student to have a solid foundation in Spanish I and in English language skills, including reading and grammar. Spanish II is an extension of Spanish I. It continues to develop the five goal areas: communication, cultures, connections, comparisons, and communities. Additional structure and vocabulary, and more sophisticated practice in listening, reading, and writing continue to lay the foundation for the development of conversational proficiency, which comes at more advanced levels. Cultural projects continue to strengthen students' appreciation of Hispanic culture.

## Spanish III (502) **NCAA OP**

Prerequisites: B or higher in Spanish II

Grade level 10-12 1 credit

It is imperative for the Spanish III student to have a solid foundation in Spanish I and II and in English language skills, including reading and grammar. Spanish III builds on the previous courses. It continues to develop the five goal areas: communication, cultures, connections, comparisons, and communities. Grammar and vocabulary contribute to increasing proficiencies in listening, speaking, reading, handwriting skills. Projects

continue to enhance cultural understanding in conjunction with language skills.

## Advanced Spanish IV (503) **NCAA OP**

Prerequisites: B or higher in Spanish III

Grade level 10-12 1 credit

Spanish IV develops essential academic skills associated with the College Board's Advanced Placement program. Students explore various themes while building on oral/aural proficiency skills, reading skills, and writing skills that were developed in Spanish I, II, and III. Students expand skills in creative, effective self-expression in a variety of contexts and topics, including current events, history of Spanish-speaking countries, and literature. Students gain proficiency through class discussion, presentations, reading, and writing.

## Advanced Placement Spanish V (504)

**NCAA OP**

Prerequisites: B or higher in Spanish IV

Grade level 11-12 1 credit

The AP Spanish Language and Culture course is designed to be comparable to a level-3 college course. The objectives are to develop students' ability to understand spoken and written Spanish in various formats and contexts and to express themselves coherently orally and in writing with fluency and accuracy. As preparation for the AP test, students practice communication skills in interpretive, interpersonal and presentational modes while learning about the products, practices and perspectives of Hispanic cultures. Resources for discussion and analysis include literature, film, and articles in various media.

## French I (506) **NCAA OP**

Prerequisites: A solid foundation in English

Grade level 10-12 1 credit

This beginning course introduces students to French language and Francophone cultures. Students learn basic vocabulary and grammar and develop speaking, listening, reading, and writing skills so that they can communicate about themselves, their families and

friends, their daily lives at school and in their community. Students have the opportunity to compare and connect French language and culture with their own and learn about the world wide French speaking community. Skits, presentations and small research projects are required.

## French II (507) **NCAA OP**

Prerequisites: C or higher in French I

Grade level 10-12 1 credit

French II should be taken in the semester immediately following French I. A strong foundation in beginning French and in English language skills is imperative. This course expands and develops the beginning student's ability to communicate about aspects of daily life. Study of Paris, the regions of France, French food and holidays provides a framework for grammar and vocabulary. Students build proficiency in sharing information and describing people, places, and events past and present. Skits, presentations and small research projects are required.

## French III (508) **NCAA OP**

Prerequisites: B or higher in French II

Grade level 11-12 1 credit

French III students learn to communicate about their lives and activities in greater detail and with greater proficiency. Units on sports, health, housing and travel provide the framework for grammar and vocabulary expansion using authentic materials and situations. Students also learn about French fairy tales, French castles, and francophone communities around the world through small projects, presentations, reading and creative writing in French.

## Advanced French IV (509) **NCAA OP**

Prerequisites: B or higher in French III

Grade level 11-12 1 credit

This course develops essential academic skills associated with the College Board's Advanced Placement program. Students expand skills in creative effective self-expression in a variety of contexts and topics, including current events, French history, and literature. Students gain proficiency through class discussion, presentations, reading and writing. The

successful student has a very strong foundation in basic skills and enjoys reading and writing.

## Advanced Placement French V (510)

### **NCAA OP**

Prerequisites: B or higher in French IV

Grade level 11-12 1 credit

The AP French Language course is designed to be comparable to a level 3 college course. The objectives are to develop students' ability to understand spoken and written French in various formats and contexts and to express themselves orally and in writing, coherently and with reasonable fluency and accuracy. Resources for discussion and analysis will include literature, film, and news articles in various media.

## Electives

### Peer Advocate (014, 029, 049)

Prerequisite: Teacher Approval

Grade level 11-12 1 credit

The Peer Advocate program is available to juniors and seniors. The course familiarizes students with the basic skills and knowledge necessary to work with students with mild/moderate and/or severe/profound disabilities. Peer Advocates may have the opportunity to work on individualized skills specific to the student's educational goals and objectives within the special education classroom. Peer Advocates receive instruction and supervision from the special education teacher to whom they are assigned. Grades will be based on attendance, attitude, performance during instruction, daily interaction with the students and completion of written assignments.

### Library Science (015)

Prerequisite: None

Grade level 11-12 1 credit

Students will assist library personnel with filing, checking books in and out using the Follett System, and shelving materials. Students will also work with his/her peers by helping them to locate materials and answer general questions. Students will also help perform inventory of library holdings and repair damaged materials. In

addition to these traditional library skills, students will learn about new technologies in library research including the use of net browsers and on-line searches. A library media curriculum will be used which includes the Dewey Decimal Classification System, card catalog, and the general workings of a media center. There will be assignments, projects, and tests.

## Lifetime Fitness (801)

Prerequisites: None

Grade level 10-12 1 credit

This course is designed to expose students to various lifetime sports and recreational activities. Emphasis will be on the development of sport specific skills and knowledge related to each of the sports/activities. The following is a list of the activities we could cover, but we are not limited to these activities: Basketball, Soccer, Disc Golf, Football, Ultimate Frisbee, Volleyball, Team Building, Dodging Games, Strength Training, and Cardiovascular Fitness. This class is designed for you to succeed as long as you put forth effort and have a good attitude. Athletes are not allowed to enroll in Lifetime Fitness.

## Injury Care Prevention (802)

Prerequisites: None

Grade level 10-12 .5 credit

Course designed to provide students with a basic knowledge and understanding of the principles of sports medicine, the care and treatment of athletic trauma and the use of proper conditioning principles in the prevention of injury.

## Nutrition and Wellness (806)

Prerequisites: None

Grade level 10-12 .5 credit

This course is designed to provide the students with a complete overview of health education. This course uses lecture, discussions, readings, films, guest speakers, problem solving, and hand-on activities to help students understand all aspects of personal and community health.

## Student Leadership (622)

Prerequisites: Student must be an officer or member in any SHS sponsored organization or club.

Grade level 10-12 1 credit

Student Leadership is designed to train student leaders in various aspects of leadership with a focus on responsibility, integrity, respect and perseverance. Regular class time is allocated for the performance of tasks associated with Servant Leadership at SHS, Student Council, SMAC and/or other tasks related offices held in SHS clubs. Specific areas of instruction include but are not limited to: Exploration of all areas of Leadership; develop and enhance individual leadership skills; cultivate and enhance listening skills; development in writing skills, committee work, delegation, personal organization, and public speaking; learning and performing the duties of the office for which you were elected; actively participating in decision-making and creative problem solving; interacting with administration and the business community; utilizing teamwork and group process; and learning to evaluate progress in terms of set goals.

## Internship I (623)

Prerequisites: Seniors only. Application must be submitted and approved by Leadership instructor.

Grade level 12 1 credit

Internship allows for a student to evaluate and support employment and career development through Work Experience and Professional Shadowing. Candidates for Internship in the area of Work Experience should be currently employed and working a minimum of six hours Monday through Friday. Candidates for Professional Shadowing are students with an interest in Business, Education or Medicine. These candidates must shadow in their chosen area for a minimum of six hours Monday through Friday. Internship class includes but is not limited to: Exploration of career development, weekly debriefing with Internship instructor, complete weekly activity reports, personality and temperament testing and these affect us professionally, building of a career portfolio which demonstrates an understanding and mastery of how to pursue employment.

## Financial Literacy (654)

Prerequisites: None

Grade level 10-12 .5 credit

Financial Literacy is having the knowledge and skills to make good decisions about using and managing your money. It will include the following areas: earning an income, understanding state and federal taxes, banking and financial services, balancing a checkbook, savings and investing, planning for retirement, understanding loans and borrowing money, understanding interest, credit card debt and online commerce, identity fraud and theft, rights and responsibilities of renting or buying a home, understanding insurance, understanding the financial impact and consequences of gambling, bankruptcy and charitable giving.

## Journalism I (700) **NCAA**

Prerequisites: None

Grade level 10-12 1 credit

Students will study and produce news stories, feature stories, editorials, and opinion columns while learning to express ideas concisely. They will learn to distinguish fact from opinion and study the value of being informed in a democratic society. Students will learn all phases of school publication, including planning, design, and advertising sales.

## Journalism Newspaper (701F/701S)

Prerequisites: None

Grade level 10-12 1 or 2 credits

This class produces the school newspaper and is referred to as a "staff." Photographers, writers, and designers work independently as well as in the group to present features of interest to the high school students. Interviewing students, teachers and adults in the community and beyond teaches students the importance of research and develops skill and poise in personal relations. Students also learn care in placement of graphics, photographs, and copy as they do computer design of camera-ready newspaper pages. Ad sales are a requirement for this course and a part of the grading system.

## Journalism Yearbook (702F/702S)

Prerequisites: None

Grade level 10-12 1 or 2 credits

This class produces the school yearbook and is referred to as a "staff." Students address all aspects of design and cover activities of interest to their peers. Students learn to manage time and work cooperatively in a group. They will design pages and write feature stories, captions, and headlines. Photographers will record all areas of student interest both in and out of school as assigned by editors. Ad sales are a requirement for this course and a part of the grading system.

## Meridian Technology Center

### Air Conditioning and Refrigeration (951/971)

Grade level 11-12

Interested in a cool career? The Air Conditioning and Refrigeration program at Meridian specializes in the design and installation of home and business heating and cooling systems. We offer two areas of specialization: Residential HVAC Installer and Residential HVAC Technician. As an HVAC Installer you'll learn how to work on heating, ventilation, cooling and refrigeration systems that help people stay cool when it's hot and warm when it's not. Take your training further as an HVAC Technician and learn how to install, repair and maintain machines that regulate temperature and ventilation.

### Collision Repair (952/972)

Grade level 11-12

There's more to the automotive industry than what makes a motor run. The Collision Repair Technology program focuses on ensuring exceptional exteriors. From learning how to provide proper repair estimates to gaining the skills to get the job done, students in this program become familiar with the ins and outs of the repair industry. With several areas of study to choose from, students have the opportunity to specialize in combination collision repair, refinishing or non-structural repair.

### Automotive Technology (953/973)

Grade level 11-12



Interested in learning about automobiles from the inside out? The Automotive Technology program highlights the skills needed to successfully service and repair a wide range of vehicles. As soon as you step into this area's expansive lab space – a fully functioning service center –, you'll quickly see how technology is driving this industry. Students train using the same advanced diagnostic equipment as ASE certified technicians.

## Business Technology (954/974)

Grade level 11-12

The Business Technology program provides students with the skills they need to operate a business. The program offers beginner and advanced training on how to perform a wide range of office responsibilities for a career in banking and general business settings, including entrepreneurship. Students can focus on career training in the areas of accounts payable/receivable clerk, administrative assistant or entrepreneur.

## Culinary Arts (955/975)

Grade level 11-12

Awaken your taste buds in the Culinary Arts program at Meridian. Students work with professionally trained chefs to learn food preparation and management techniques that can be applied in large or small restaurants and catering companies. Additional time in the program will focus on preparing entrees, salads, bakery items and quick service specialties. Hands-on experience is key to this program! Students will have the opportunity to assist in the operation of two on-campus dining facilities. Foodies will also have the opportunity to prepare and serve meals for casual dining and upscale catering events.

## Cosmetology (956/976)

Grade level 11-12

There is no greater joy than bringing out the best in others. Passion meets profession in the Cosmetology industry. From learning anatomy and physiology to understanding angles and chemical compounds, this program is equal part academics and creative expression. Following time in the classroom gaining foundational skills for hair, skin and nail services, students have the opportunity to gain hands-on

experience in Meridian's full-service salon and spa that is open to the public. This program prepares graduates to enter the workforce as hairstylists, color specialists, manicurists, and makeup artists, just to name a few. In addition to classroom activities, students may have an opportunity to participate in community service projects that are related to their profession, learn from professional product educators and tour local salons. Upon completion of the program, students are prepared to take the Oklahoma State Board of Cosmetology licensing exam.

## Criminal Justice (957/977)

If you're looking for a career in law enforcement, Meridian's new Criminal Justice program is the place to start. Students will learn and get hands-on training in criminal law, court proceedings, functions of the police, arrest procedures and security. Using critical thinking, students will analyze data in criminal investigations. Students will also learn and apply forensic investigative techniques to process crime scenes and collect evidence. In addition to participating in leadership development, students will develop tactical and interpersonal skills while gaining awareness of the day-to-day operations of public safety.

## Computer Aided Drafting (958/978)

Grade level 11-12

The architectural arm of Computer Aided Drafting truly is the blueprint to everything. This program teaches students the basics of drawing building plans. It also focuses on how to give those designs extra dimension. Using industry-standard 3D modeling software, designers can create drafting and modeling projects that highlight front, side and aerial views. This program lets the designer in you dream big!

## Digital Media (959/979)

Grade level 11-12

To get in touch with your creative side, explore Digital Media. In this area, you'll learn to create text, graphics, audio and videos. Students have a chance to develop their technical skills in graphic design, web development, 2D/3D animation, photography and video production. Specialization areas include Digital Video Production, 3D Animation and Motion Graphics, Web Design and Graphic Design.

## Product Development and Machining (960/980)

Grade level 11-12

Machining is on the rise across the state and in the Meridian district. The Product Development and Machining program drills down to the foundation of both manual and computer numeric controlled (CNC) machining. Using blueprints and custom schematics, students will learn how to create, design and manufacture the tools and components for a wide variety of production needs. Throughout the program, students will master subtracting manufacturing, the process of transforming raw material into shape by taking away layers of material to create a product. Students will gain experience working with a variety of materials – steel, aluminum, plastic and more. It's all in the details for this program. Meridian offers three types of training in this career field. Students can learn to be a CNC Machinist Assistant, a CNC Machinist or an Engine Lathe Operator. Graduates will have the skills needed to test for a variety of industry certifications through the National Institute for Metalworking Skills (NIMS).

## Pre-Engineering Technology (961/981)

Grade level 10-12

The Pre-Engineering program is part of Meridian's STEM Academy. Using science, technology, engineering and math (STEM), students in this program explore civil, chemical, mechanical and aerospace engineering. From building robots to airplanes, collaboration is key and students will often find themselves working with other programs to create new products and improve on the world around them. Students can begin this program as a sophomore.

## Welding Technology (964/984)

Grade level 11-12

Sparks are frequently flying in the Welding program at Meridian. On any given day, students are applying one of the numerous welding techniques to join, cut or manipulate metal. Whether you're interested in working for a big company or running your own rig, you'll learn a variety of techniques that will prepare you to handle jobs big and small.

## Carpentry (965/985)

Grade level 11-12

Learn carpentry and construction skills to build an ideal career. Students in the carpentry program learn how to operate a wide range of power and air tools used in construction. Time is also spent learning how to read and interpret blueprints that are used for new construction projects or remodeling and renovation. The carpentry program allows students to specialize in training to become a finish carpenter or a frame carpenter. Finish carpenters build custom carpentry pieces such as cabinets, counters, shelves and other fixtures for homes, office spaces, hotels, stores and restaurants. Frame carpenters work on all aspects of construction from exterior work to interior detailing. Students in this training program will graduate with extensive knowledge and skill in frame carpentry and cabinetmaking. Students have an opportunity to practice their skills with hands-on construction projects that include building a tiny home and garden sheds. Students in this program also explore the working relationship with other construction industries.

## Precision Metal (966/986)

Grade level 11-12

This program specializes in advanced welding processes that are used to join, cut, bend, drill, punch and manipulate a variety of metal types. Using elements of traditional welding and fabrication techniques, students design and layout patterns, interpret blueprints and meticulously follow engineering specifications to complete projects.

## Health Careers (967/987)

Grade level 11-12

If you know you want a career in the medical profession the Health Careers program is the perfect place for you. From learning the basics of patient care to knowing how to use advanced medical and diagnostic equipment, you'll get to work alongside and support medical professionals in a variety of health care settings while providing quality patient care. Upon completion of this program, you will be eligible to become a certified nursing assistant (CNA), a certified home health aide, a certified clinical medical assistant, a certified phlebotomy

technician, and a medication administration technician (MAT).

## Information Technology (968/988)

Grade level 11-12

Learn how to repair, service and troubleshoot personal computers and computer-related equipment when you study to become a PC Support Technician. Or advance your tech skills and become the go-to person for computer repairs, servicing and troubleshooting as a Network PC Support Specialist. Ensure that a company's networking is running smooth and efficiently as a Network Systems Engineer. Are you more interested in the world of cybercrime? Put your investigative skills to work as a digital detective and become a Cybercrime Specialist and learn how to work with law enforcement officers to gather evidence that can be used in trial. If you're interested in protecting people, networks and intellectual property from hackers, explore the Cyber Security Professional program.

## Electrical Tech (970/990)

Grade level 11-12

Find your spark in Electrical Technology. Students in this program experience the "rough in" to "finish" stages of wiring a building as they design, install and test commercial, residential and industrial electrical control systems. Using a lab that's comprised of a frame and empty walls, students master how to safely and efficiently install electrical fixtures according to blueprints and schematics. Students gain industry experience from wiring houses with Stillwater Habitat for Humanity and a variety of construction projects.

## Pharmacy Technician (991/992)

Grade level 12

This one year program will help you develop an understanding of the names, appropriate uses and potential side effects of commonly prescribed medications. In addition to studying in a simulated pharmacy where you will learn how to manage, dispense and compound prescription medicines, you'll also learn how to fill prescriptions using advanced robotic equipment often found in high-tech pharmacies.

## Energy and Power (993/994)

Grade level 11-12

Learn about Energy and Power through hands-on projects to understand the interplay of the generation, distribution and the use of energy. Students will work in small groups to research, design, build and evaluate their solutions to the problems they are presented. They will collect and analyze data, study and modify their prototypes and practice project management while learning how to work and collaborate in a team environment. The Energy and Power program will cover how to design and construct motors, pumps, heat exchangers, hydraulics and pipeline systems. Students will explore renewable and non-renewable energy generation, transformers and the electrical grid to understand how energy travels along power lines. Five types of energy will be covered – mechanical, heat, chemical, electromagnetic and nuclear power. Also, time will be spent discussing automation by programming and managing robotics.

## Bio Medical Sciences (997/998)

Grade level 10-12

Put your critical thinking skills to the test in Biomedical Sciences! Whether you're investigating a potential crime scene, offering medical advice to a fictitious family, monitoring muscle movement or evaluating cancer treatment options this program brings science to life through human medicine, physiology, genetics, microbiology and public health. Students in this program will work collaboratively to understand the most pressing health challenges of today and the future. The college preparatory Project Lead the Way curriculum introduces students to the human body, cell biology, genetics, disease and other biomedical topics in a sequence of four courses. Students are exposed to a diverse curriculum with a strong math and science foundation to better equip them for success in a science-related major at the university level. When students enter the Biomedical Sciences STEM Academy as a sophomore they are able to take additional elective courses. Healthcare Provider and CPR certifications are built into this program. This program is ideal for high school students interested in pursuing a pre-med college pathway.

## Athletics

In order to participate in competitive activities, a student must have a current physical on file and be currently (within the semester) passing all classes. Specific implementation of this policy follows the regulations established by the Oklahoma Secondary Schools Activities Association. Competitive Athletics may be repeated for credit.

Football (810)

Cross Country (811)

Boys Basketball (812)

Girls Basketball (813)

Wrestling (814)

Softball (815)

Boys Track (816)

Girls Track (817)

Boys Golf (818)

Girls Golf (819)

Baseball (820)

Boys Tennis (821)

Girls Tennis (822)

Swimming (824)

Boys Soccer (825)

Girls Soccer (828)

Volleyball (829)

Spirit Squad (826)

### Strength and Conditioning (823)

Strength and Conditioning is for students enrolled in Athletics only and is only offered in the spring for fall sports. There is no S & C for spring sports.

## Special Services

### Essentials of English II (019)

Prerequisites: Recommendation of IEP Team and successful completion of English I

Grade level 10-12                      1 credit

Consists of specifically designed instruction of World Literature, including short stories, biographical and autobiographical essays, novels, poetry, and drama. Works of fiction and non-fiction include, Everyday Use and To Build a Fire. Composition skills include formal and informal writing and an informative essay. Instruction includes grammar and vocabulary lessons. An oral book report presentation will be given. This course is offered on a rotating curriculum.

### Essentials of English III (020)

Prerequisites: Recommendation of IEP Team and successful completion of English II

Grade level 10-12                      1 credit

This is a direct service English class taught with modified curriculum to address the individual needs of enrolled students. Consists of specifically designed instruction of American Literature that includes short stories, novels, poetry, fiction and non-fiction. Major works include The Crucible. Accompanying the literature study is a variety of writing, both formal and informal and a persuasive essay. Grammar is studied in conjunction with writing. An oral book report presentation will be given. This course is offered on a rotating curriculum.

### Essentials of English IV (021)

Prerequisites: Recommendation of IEP Team and successful completion of English III

Grade level 10-12                      1 credit

This is a direct service English class taught with modified curriculum to address the individual needs of enrolled students. Consists of specifically designed instruction in British Literature that includes short stories, essays, novels, and poetry. Major works include Beowulf. Composition skills include formal and informal writing which includes an argumentative essay. An oral presentation will be given on their book of choice, using google slides. Correct formatting will be taught through their development of google slides. This course is offered on a rotating curriculum.

### Essentials of Biology (022)

Prerequisites: Recommendation of IEP Team

Grade level 10-12                      1 credit

This is a direct service Biology class taught with modified curriculum to address the individual needs of enrolled students.

## Essentials of Earth Science (023)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service Earth Science class taught with modified curriculum to address the individual needs of enrolled students.

## Essentials of Physical Science (023a)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service Physical Science class taught with modified curriculum to address the individual needs of enrolled students.

## Essentials of US History (024)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service US History class taught with modified curriculum to address the individual needs of enrolled students.

## Essentials of World History (025)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service World History class taught with modified curriculum to address the individual needs of enrolled students.

## Essentials of Geometry (028)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service Geometry class taught with modified curriculum to address the individual needs of enrolled students.

## Essentials of Intermediate Algebra (017)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service class taught with modified curriculum to address the individual needs of enrolled students.

## Essentials of Math of Finance (018)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service class taught with modified curriculum to address the individual needs of enrolled students.

## Essentials of Geography (037)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service Geography class taught with modified curriculum to address the individual needs of enrolled students.

## Essentials of Fine Arts (751a)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service Fine Arts class taught with modified curriculum to address the individual needs of enrolled students.

## Essentials of Acting (720a)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service Acting class taught with modified curriculum to address the individual needs of enrolled students.

## Introduction to Careers (045)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

Students enrolled in Intro to Careers will participate in career exploration and begin the process of identifying future potential careers. Career exploration will be done through interest assessments, time at community employment sites, and preference evaluation. Through this course students will begin to develop a portfolio of employable skills and employment preferences.

## Independent Living Skills and Financial Literacy (048)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

In this course, students will learn skills in consumer economics and community resources. Skills targeted are money, money management and fiscal responsibility. Students will also learn skills in measuring, budgeting, banking, and accessing and using community services such as recreational services, public transportation, social security, health services, and police and fire services.

## English II (107)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

Consists of specifically designed instruction of literature and composition. The literature study includes classical and contemporary works of world authors including a wide variety of short stories, essays, novels, poetry, and drama. Composition skills include the development of narrative, expository, descriptive and persuasive modes of writing including both formal and informal. Students will also practice test taking skills. This course is offered on a rotating curriculum.

## English III (108)

Prerequisites: Recommendation of IEP Team

Grade level 11-12     1 credit

English III focuses on a study of American literature that includes short stories, novels, poetry, drama, and assorted non-fiction. Accompanying the literature study is a variety of writing, both formal and informal. Grammar is studied in conjunction with writing.

## English IV (109)

Prerequisites: Recommendation of IEP Team

Grade level 12             1 credit

Consists of specifically designed instruction of literature and composition. The literature study includes classical and contemporary works of British authors including a wide variety of short stories, essays, novels, poetry, and drama. Composition skills include the development of definition, compare/contrast, classification, descriptive and persuasive/argumentation modes of writing including both formal and informal. Students will also practice test taking skills. This course is offered on a rotating curriculum.

## Work Study (050)

Prerequisites: Recommendation of IEP Team

Grade level 11-12     1 credit

In this course, students will participate in job sampling experiences, work adjustment programs, and on-site training both on school campuses and in the community. These skills will prepare students for the "real" world of work.

## Study Skills (051)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

The course is designed to help students gain and improve the skills necessary for them to be personally and academically successful. This is NOT a study hall, it is a practice-driven course, which means skills will be taught and practiced. Students will become familiar with their IEPs, enhance their study skills, transition skills, reading skills, math skills, and test prep skills. Students will also be provided time to complete homework and study for general curriculum classes with teacher support.

## Introduction to Music (053)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service music class taught with modified curriculum to address the individual needs of enrolled students.



## Introduction to Art (054)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

This is a direct service art class taught with modified curriculum to address the individual needs of enrolled students.

## Pioneer Tech (098)

Prerequisites: Recommendation of IEP Team

Grade level 10-12     1 credit

Pioneer Tech is a class designed to introduce students to computer applications and career exploration. Students will learn basic concepts of graphic design while exploring careers and interests. The students learn how to use the following software programs as they create career-oriented products: CorelDRAW Graphics Suite X4 and Corel Photo-Paint X4. Tech-Now is specifically designed instruction and requires instructor approval prior to enrollment.