2023-2024

Cushing High School

Curriculum Synopsis

Course Description

Accredited By

Oklahoma State Department of Education

Cushing High School

1700 E. Walnut

Cushing, OK 74023

Phone: 225-6622

Fax: 225-0933

**Useful information**

1. 24 credits are required for graduation for Cushing High School. A Carnegie Unit of credit is given for the successful completion of a course that meets 40 minutes a day, five days per week, for at least 36 weeks, or the equivalent of 120 clock hours within the school year. Students will receive 1/2 credit/unit per passed semester.
2. Student's grade classification is based on total credits earned. The following are classification requirements:

 Sophomore..........6 credits Junior.........11 credits Senior.........17 credits

3. Students who need more than 1 credit for graduation will not be permitted to participate in the graduation exercises.

4. Grading policy

 The following grading scale will be used:

 A = 90 -100

 B = 80 - 89

 C = 70 - 79

 D = 60 – 69

 F = 59 and below

5. Calculating GPA

 The following points will be used to calculate an unweighted GPA

 A = 4.0

 B = 3.0

 C = 2.0

 D = 1.0

 F = 0.0

 The following classes will receive a weighted grade and will use the following points to calculate a weighted GPA:

 A = 5.0

 B = 4.0

 C = 3.0

 D = 2.0

 F = 0.0

 Language Arts Math Social Studies

 Honors English I Honors Geometry Honors Oklahoma History

 Honors English II Honors Algebra II Honors Geography

 AP English 3 Trig/Pre-Calculus Honors World History

 Statistics AP US History

 AP Calculus AP Human Geography

 AP Statistics (offered at Central Tech)

 Science Other

 Honors Biology Any concurrent class

 Chemistry

 AP Physics

 AP Biology

 AP Chemistry

7. **Valedictorian**

* Students must have all A’s on their transcript for grades 9-12
* Students must complete 12 of the advanced, Honors, and AP classes. At least 4 of the 12 classes need to be AP/Concurrent classes that have an AP equivalent.

Advanced Classes Honors classes AP/Concurrent classes

Chemistry Honors English I AP English 3

Trig/Pre-Calculus Honors English II AP US History

Statistics Honors Geometry AP Calculus

Spanish III Honors Algebra II AP Biology

Core Concurrent classes Honors Biology AP Chemistry

 Honors Oklahoma History/ AP Physics

 Honors Geography AP Human Geography

 Honors World History Concurrent US History (2 semesters)

 Concurrent Comp I/Comp II

 Any Concurrent class that has a

 corresponding AP Test

* If no student meets these requirements, the valedictorian will be the student with the highest weighted grade point average.

8. Honors, and AP courses are for college-bound students who want a more comprehensive education. An Advanced Placement (AP) course provides students the opportunity to potentially earn college credit. Honors courses help students bridge the gap between on-level and AP by helping students develop the skills that are necessary to succeed in AP and college courses. These advanced classes require self-discipline, above average ability, adequate time for daily homework and a willingness to stay committed to the class until the end of the school year.

9. The Cushing Board of Education will issue a certificate of distinction to graduating seniors who meet the following criteria:

 <> Have overall grade point average of 3.250 or better

 <> 4 credits of English

 <> 4 credits of Math

 <> 4 credits of Science

 <> 4 credits of Social Studies

 <> 2 additional credits of technology, humanities, or the arts

 <> 2 credits of foreign language or computer technology

10. **Credit Recovery -** Cushing High School offers on-line classes for remediation and to recover credits to meet graduation requirements. Classes may be taken on-line in the Recovery and Remediation class. These classes will be under the same guidelines as a regular classroom: working on a time deadline, grade eligibility, and grades being recorded on transcripts.

11. **Blended Learning** – Students can take a mixture of traditional courses and online courses.  If taking 5 or fewer hours at the high school, enrollment of online courses is required at the beginning of the semester and students must complete all work by the end of the semester. Applications are available in the counseling office.

12. **Virtual Learning** - All classes are completed online.  Students must be enrolled in 6 classes.  The student will attend a weekly meeting via telephone or google meet with his/her mentor teacher. Attendance is monitored by a student logging in a minimum of 4.5 hours a day and turning in 4 assignments per day.  There are only 35 spots available for 2023-2024.

11. **NCAA Clearinghouse -** Cushing High School students who plan to register with the National Collegiate Athletic Association (NCAA) Clearinghouse are recommended to take Spanish. NCAA does not recognize computer classes. Please check the NCAA website to become familiar with their requirements.

12. **State testing requirements -** All juniors will take the ACT with writing on a day in the spring semester that is set by the state department of education.All juniors will also take a state mandated science and U.S. History test.

13. **Oklahoma’s Promise** - Oklahoma’s Promise is an outstanding opportunity to receive 5 years of free tuition at any Oklahoma Public College. If your family’s annual income does not exceed $60,000, then you qualify! Students must apply before the end of their junior year. Go to www.okpromise.org for more information and to complete an application. Flyers and applications can also be picked up in the counseling office

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| **Graduation Requirements** |
| **College Prep** English - 4 credits Math - 3 credits (Algebra I , Geometry, Algebra II, Trig/Pre- Calculus, Statistics or AP Calculus) Science - 3 credits (Biology , a Physical Science, and one other lab science above the rigor of Biology I approved for college admission) Social Studies - 3.5 credits (Oklahoma History, Geography, World History, US History, and Government) Foreign languages or computer— 2 credits from the same subject/area Additional Credit from courses above - 1 credit Fine arts or Speech - 1 credit **24 total credits** | **Core Curriculum** English - 4 credits Math - 3 credits (Algebra I and above) Science - 3 credits (Biology and 2 others) Social Studies - 3.5 credits (Oklahoma History, Geography, World History, US History, and Government) Computers or Foreign Language – 1 credit  Fine Arts - 1 credit   **24 total credits** |

**Please note – Contextual Algebra I cannot be counted for the College Prep coursework.**

Parents must sign a letter if they choose to opt their child out of the College Preparatory Curriculum Requirements. According to the law, if you do not select the core curriculum, your child will automatically be enrolled in the college preparatory/work ready curriculum.

Additional graduation requirements

1. Students must take the state tests when they are juniors. These tests consist of the ACT, the state US History test, and the state science test.
2. Students must satisfactorily complete the 14 areas of instruction for Personal Financial Literacy.
3. Students must be trained in CPR.
4. Students must complete the following ICAP requirements:
	1. Annually complete a career-and college-interest survey.
	2. Annually review and revise written post-secondary and workforce goals and document progress toward these goals.
	3. Annually review the sequence of courses that reflect progress toward the post-secondary goal.
	4. Annually document the student’s academic progress, including courses taken, assessment scores, concurrent or dual enrollment credits earned and/or career certificates received at Central Tech.
	5. Participate in-service learning and/or work environment activities (only needs to be completed one time, preferably during their junior or senior year)
5. Beginning with the class of 2025 – Students must pass the U.S. Naturalization test.

Four Year Plan

Core Curriculum

|  |
| --- |
| 9th grade |
| English |  |
| Math |  |
| Biology |  |
| Ok. Hist./ Geography |  |
| Elective (Must be a fine art, Spanish, or computer class) |  |
| Elective |  |
| Elective |  |

|  |
| --- |
| 11th grade |
| English |  |
| Math |  |
| Science |  |
| US History |  |
| Elective  |  |
| Elective |  |
| Elective |  |

|  |
| --- |
| 10th grade |
| English |  |
| Math |  |
| Science |  |
| World History |  |
| Elective  |  |
| Elective |  |
| Elective |  |

|  |
| --- |
| 12th grade |
| English |  |
| Government (1 semester) |  |
| Elective |  |
| Elective |  |
| Elective  |  |
| Elective |  |
| Elective |  |

In the elective boxes, you must have 1 fine art or speech and either 1 Spanish class **or** 1 computer class.

Four Year Plan

College Prep

|  |
| --- |
| 9th grade |
| English |  |
| Math |  |
| Biology |  |
| Ok. Hist./ Geography |  |
| Elective (Must be a fine art, Speech, Spanish, or computer class) |  |
| Elective |  |
| Elective |  |

|  |
| --- |
| 11th grade |
| English |  |
| Math |  |
| Science |  |
| US History |  |
| Elective  |  |
| Elective |  |
| Elective |  |

|  |
| --- |
| 10th grade |
| English |  |
| Math |  |
| Science |  |
| World History |  |
| Elective  |  |
| Elective |  |
| Elective |  |

|  |
| --- |
| 12th grade |
| English |  |
| Government (1 semester) |  |
| Elective |  |
| Elective |  |
| Elective  |  |
| Elective |  |
| Elective |  |

In the elective boxes, you must have 1 fine art or speech, 2 Spanish **or** 2 computer classes, and 1 extra core class (math, science, history, computer, or Spanish).

**COURSE DESCRIPTIONS**

**LANGUAGE ARTS**

**Grammar/Composition 1** (2 semesters) (1 credit)

**Level:** 9th grade students

**Synopsis:** The focus of this class is grammar, composition, and the study of literature.  Grammar and composition emphasizes correct usage, sentence structure, and paragraph development.  Spelling, vocabulary, as well as the rules of capitalization and punctuation are studied throughout the year.  Fundamental comprehension skills are taught through the reading of short stories, poetry, a Shakespearean play, and a contemporary novel.  Reading for pleasure is encouraged throughout the year with specific reading requirements and activities.

**Honors Grammar/Composition 1** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 9th grade college-bound students

**Synopsis:** Honors Grammar/Composition 1 focuses on preparing serious, motivated students for AP English as well as for college English classes.  Students entering Honors Grammar/Composition 1 should have a solid understanding of English grammar as they will be expected to apply this knowledge independently in their writing.  Students should also exhibit excellent reading comprehension skills, as independent reading is stressed, and literature is studied with an emphasis on analytical thinking. Vocabulary acquisition, the development of critical research techniques, and formal persuasive and literary analytical writing are also included in this rigorous course of study.  AP writing style and AP poetry analysis formats will be used.

**English 2 (**2 semesters) (1 credit)

**Level:** 10th grade students

**Synopsis:** Reading and composition skills will be developed throughout the year with an emphasis on the four types of writing and attention paid to the mechanics of writing, with an emphasis on grammar, usage, and sentence construction.  Drama, short stories, poetry, and novels will be studied throughout the year. Vocabulary will be taught regularly.  Book reports or other written reports will be due every semester.  Special projects are assigned at teacher's discretion.

**Honors English 2** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 10th grade college-bound students

**Prerequisite:** Grammar/Composition 1

**Synopsis:** Pre-AP English 2 focuses on preparing serious, motivated students for AP English as well as for college English classes.  Students entering Pre-AP English 2 will be expected to have a solid understanding of English Grammar, as they will be expected to apply this knowledge independently in their writing. Students should also exhibit excellent reading comprehension skills, as independent reading is stressed, and literature is studied with an emphasis on analytical thinking. Vocabulary acquisition, expository, literary analytical, and formal writing are also included in this accelerated course of study. AP writing style and AP poetry analysis formats will be used.

**English 3** (2 semesters) (1 credit)

**Level:** 11th grade students

**Synopsis:** Grammar, usage and mechanics will be reviewed periodically throughout this course.  Emphasis will be placed on analysis and composition as students study writers of American literature.  Various projects (some requiring computer skills) will be required throughout the year including, but not limited to, research, oral presentations, book reports, and creative writing.  Vocabulary development will be required.

**AP English Language and Composition 3** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 11th grade college-bound students

**Prerequisite:** English 2

**Synopsis:** This course will focus on persuasion and argumentation skills with an emphasis on the reading of nonfiction works, the analysis of advertising/satire, the development of rhetorical styles, and the process of research. It is designed to develop the skills necessary to create well-written argumentative papers with an emphasis on logic and rhetorical modes. Students should be capable of performing on an advanced level, and they should have a willingness to devote the energy necessary to complete a rigorous and demanding college-level curriculum. Timed writings and critical, close readings using pieces of non-fiction are an integral part of this course.   If at the end of this course, students opt to take the College Board exam and receive a passing score, they may receive 3-6 semester hours of credit at most colleges and universities.  A small summer project is required. See teacher for full AP syllabus.  Approximate cost of exam: $94.00

**English 4** (2 semesters) (1 credit)

**Level:** 12th grade students

**Synopsis**: Students will receive instruction in writing, literature, reading and grammar.  There will be emphasis on correct oral and written expression.  British literature and nonfiction pieces will be the basis of reading, and students will be expected to do outside reading and writing applications.  Students will participate in various projects as well as writing and scholarship contests.  Students will write a formal research paper and create an academic resume in preparation for college and career-readiness.

**College Composition I and II**

College Composition I and II classes take place of English 4. Seniors must complete both classes in order to receive credit for English 4. See your counselor for more information.

**Yearbook** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level**: 9th - 12th grade students

**Prerequisite:** Fill out application and interview

**Synopsis:** Students will learn each part of the yearbook and know how it is assembled; learn printing terms /concepts and how they relate to Yearbook Production; learn layout, typographic and graphic design, content options, and copy fitting; be involved in marketing and selling ads and yearbooks; help plan yearbook and page design; prepare layouts, copy, headlines, captions; work with entire staff to meet deadlines by proofreading and editing; take photographs using a digital camera for use in yearbook. The staff is required to sell a minimum of 10 ads in the community and to take pictures of activities from clubs and sports. Staff members are required to attend one after school activity a month to complete the yearbook.

**MATHEMATICS**

**Algebra 1** (2 semesters) (1 credit)

**Level:**  9th - 12th grade students.

**Recommended:**  Scientific Calculator

**Synopsis:**  This course is a standard Algebra 1 course designed to cover the Algebra 1 Oklahoma Academic Standards. It covers topics such as variables, operations with integers, polynomials, inequalities, algebraic properties, literal equations, radicals, and linear, piece-wise, absolute value, quadratic, and exponential functions. Daily work and participation are required.

**Contextual Algebra 1** (Algebra 1 credit)(2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:**  9th - 12th grade students

**Requirement**:  Scientific Calculator

**Synopsis:**  The contextual algebra course covers the topics in Algebra 1, but does so using a more hands-on approach. Algebra tiles, hands on equations, and kinesthetic learning will be used to help students develop a concrete model for abstract concepts. Topics include but are not limited to linear, quadratic, exponential and functions, solving systems of equations, polynomials, inequalities, radicals, and data and statistics. Students will be challenged to apply algebraic concepts to real-world situations.

**Geometry** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:**  9th - 12th grade students.

**Prerequisite**:  Successful completion of Contextual Algebra 1 or Algebra 1

**Requirement**: Scientific Calculator

**Synopsis:**  Geometry is the standard geometry class designed to cover the Geometry Oklahoma Academic Standards and prepare students for Algebra 2 and meet the Core or College Prep coursework for graduation. Geometry uses logical reasoning, measurement, and geometric construction to investigate the special relationships of line, angles, triangles, circles, and polygons. Through these methods we will investigate

congruence and similarities of triangles, parallel and perpendicular lines, area and volume, the Pythagorean Theorem, geometric proofs, transformation and the basics of trigonometry. Geometric ideas will regularly be applied to real world situations.

**Honors Geometry** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:**  9th - 12th grade students.

**Prerequisite**:  Successful completion of Algebra 1

**Recommended Prerequisite:**  Successful completion of Algebra 1

**Requirement**: Scientific Calculator

**Synopsis:**  Honors Geometry is an advanced placement Geometry course designed to cover the Geometry Oklahoma Academic Standards and prepare students for the challenge and rigor of the upper-level math courses of Precalculus, AP Calculus, Statistics as well as College Algebra/Trigonometry and Statistics. This course is recommended for students who are strong in math and willing to challenge themselves to improve their math skills in preparation of college coursework.

Geometry uses logical reasoning, measurement, and geometric construction to investigate the special

relationships of line, angles, triangles, circles, and polygons. Through these methods we will investigate congruence and similarities of triangles, parallel and perpendicular lines, area and volume, the Pythagorean Theorem, geometric proofs, transformation and the basics of trigonometry. Geometric ideas will regularly be applied to real world situations.

**Mathematics of Finance** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:**  10th - 12th grade students who are not taking Algebra 2 for their third math credit

**Prerequisite**:  Successful completion of Geometry

**Requirement**: Scientific Calculator (A graphing calculator is acceptable.)

**Synopsis:**  Scientific Calculator (A graphing calculator is acceptable.)

Synopsis: Mathematics of Finance offers students the opportunity to review, strengthen, and extend their algebra skills beyond Algebra 1. Students will calculate income earnings and deductions based on different types of compensation methods. Algebraic formulas will be used to calculate Simple Interest, Compound Interest, Average Daily Balances, Effective Interest Rate, Loan Payoff, and Monthly Payment. Students will calculate tax forms using forms W-2, 1040EZ, and 1040A. Students will also investigate the responsibilities of buying and owning an automobile, renting or buying a home, healthcare and life insurance options, stock investments, and creating a budget.

**Algebra 2** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:**  10th - 12th grade students

**Prerequisite:**  Successful completion of Geometry or Honors Geometry

**Requirement:**  Algebra 2 is the standard Algebra 2 course designed to cover the Algebra 2 Oklahoma Academic Standards and meet the College Prep coursework for graduation. This course emphasizes facility with algebraic expressions and forms, especially linear and quadratic forms, powers and roots, and functions based on these concepts. Students study logarithmic, trigonometric, polynomial, rational, and other special functions both for their abstract properties and as tools for modeling real-world situations. Data analysis is also used to make inferences and justify conclusions of statistical experiments, surveys, and studies.

**Honors Algebra 2** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:**  10th - 12th grade students

**Prerequisite:**  Successful completion of Geometry or Honors Geometry

**Recommended Prerequisite:**  Successful completion of Honors Geometry

**Requirement:**  Graphing Calculator (TI-84 series is recommended)

**Synopsis**:  Honors Algebra 2 is an advanced placement Algebra 2 course designed to cover the Algebra 2 Oklahoma Academic Standards and prepare students for the challenge and rigor of the upper-level math courses of Trigonometry, Statistics, AP Calculus as well as College Algebra, College Trigonometry, and College Statistics. This course is recommended for students who are strong in math and willing to challenge themselves to improve their math skills in preparation of college coursework. Algebra 2 emphasizes facility with algebraic expressions and forms, especially linear and quadratic forms, powers and roots, and functions based on these concepts. Students study logarithmic, trigonometric, polynomial, and other special functions both for their abstract properties and as tools for modeling real-world situations. Data analysis is also used to make inferences and justify conclusions of statistical experiments, surveys, and studies.

**Trigonometry** (1 semester; Fall) (.5 credit) **TEACHER RECOMMENDED**

**Level:**  11th - 12th grade college-bound students

**Prerequisite:**  Successful completion of Algebra 2 or Honors Algebra 2

**Recommended Prerequisite:**  Successful completion Honors Geometry and Honors Algebra 2

**Requirement**:  Graphing Calculator (TI-84 series is recommended)

**Synopsis**:  This course covers numerous aspects of trigonometry, including trigonometric ratios, equations, identities, graphs, and practical applications. This course is recommended for students who are strong in math and willing to challenge themselves to improve their math skills in preparation of AP Calculus and STEM-related college coursework..

**Precalculus** (1 semester; Spring) (.5 credit) **TEACHER RECOMMENDED**

**Level:**  11th - 12th grade college-bound students

**Prerequisite:**  Successful completion of Trigonometry

**Recommended Prerequisite:**  Successful completion of Algebra 1, Honors Geometry, Honors Algebra 2

**Requirement**:  Graphing Calculator (TI-84 series is recommended)

**Synopsis**:  This course revisits and expands on content first presented in Algebra 2 and Honors Algebra 2 in order to further the development of students’ skills in preparation for the ACT and College Algebra. This course is an optional second semester course to concurrent College Algebra.

**College Precalculus**

**Level:** 11th and 12th grade college-bound students

**Prerequisite:** Successful completion of Algebra 2 or Honors Algebra 2

**Requirement:** See counselor for more information

**Statistics** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:**  11th and 12th grade college-bound students

**Prerequisite:**  Successful completion of Geometry or Honors Geometry

**Requirement**:  Graphing Calculator (TI-84 series is recommended)

**Synopsis**:  This college prep course is designed to introduce statistical analysis and statistical

communication. Drawing on skills develop from previous courses including English, Science and Social Studies, students will develop skills in independent research, data collection, probability and random events, statistical inference, written and oral communication. Technology is a central component of the course and includes the use of graphing calculators, computers, and data analysis software. On a regular basis, graphing calculators and computers are used to explore, discover, and reinforce concepts of statistics and probability.

**AP Calculus** **AB** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:**  12th grade college-bound students

**Prerequisite**:  Successful completion of Precalculus

**Requirement**:  Graphing Calculator (TI-84 series is recommended)

**Synopsis**:  This course is intended to prepare seniors for taking calculus in college by introducing it to them at the high school level. Some of the topics will be graphing functions and understanding the language of functions. The rest of the course will contain calculus material. The first part will be rates of change, slope functions, and differentiation. The second part will include summation of areas, anti-differentiation, and integration. The AP exam will be offered at the end of the year.

**AP Calculus BC** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Prerequisite:**  Successful completion of Precalculus and a high interest in mathematics are necessary.

**Synopsis**:  The topics in this course will focus on those that are part of the AP Calculus BC exam. These are mainly the study of polar and parametric equations, and polynomial approximations and series. This is what most colleges will cover in Calculus I and Calculus II. The AP exam will be offered at the end of the year.

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**SCIENCE**

**College Bound Science Pathway**

|  |  |
| --- | --- |
| 9th grade | Biology I or Honors Biology I |
| 10th grade | Physical Science or Chemistry |
| 11th and 12th grade | Anatomy & Physiology or Zoology or Biology II or Chemistry or Concurrent Chemistry or AP Physics |

**Non-College Bound Science Pathway**

|  |  |
| --- | --- |
| 9th grade | Contextual Biology or Biology I |
| 10th grade | Contextual Physical Science or Physical Science |
| 11th grade | Anatomy & Physiology or Zoology |

**Biology** (2 semesters) (1 credit)

**Level:** 9th – 12th grade students, 9TH grade college bound students

**Synopsis:** This course is designed to acquaint students with the cell, its parts, and how it works; genetics and the function of DNA; and evolution and its relationship to life systems. The course also includes the study of ecosystems and the flow of energy and matter among life systems. There is laboratory work, particularly as we study representatives of the animal kingdom. Biology includes utilization of scientific processes with emphasis on terminology and classification.

**Contextual Biology** (2 semesters) (1 credit)

**Level:** 9th and 11th grade students

**Synopsis:** This course presents biological concepts in familiar language with minimal technical terminology and helps students connect biology to everyday living. Current coverage of ecology, pollution, drug abuse, and careers in life science will be stressed in this course as well as introduction to cells, heredity, plants, animals, and human biology. There is laboratory work. NOTE: You cannot take Contextual Biology and Biology to meet graduation requirements. You may take one or the other but not both.

**Honors Biology** (2 semesters) (1credit) **TEACHER RECOMMENDED**

**Level:** 10th-12th grade students, 9th grade college bound students

**Synopsis:** This course is designed to acquaint students with the cell, its parts and how it works; genetics and the function of DNA; as well as evolution and its relationship to life systems. The course also includes the study of ecosystems and the flow of energy and matter among life systems. Pre-AP/Honors Biology includes the utilization of scientific processes with emphasis on terminology, classification, and critical thinking and application of these concepts. Honors Biology is recommended for high achieving students and for students who have a particular interest in Biology and natural science.

**Physical Science** (2 semesters) (1 credit)

**Level:** 10th- 12th grade students.

**Synopsis:** This course is designed as a General Physical Science class. It is an introduction to the

sciences of Chemistry and Physics. The subject matter is developed through lecture, class notes, class discussion, demonstration, laboratory, and problem solving experiences.

**Contextual Physical Science** (2 semesters) (1 credit)

**Level:** 10th – 11th grade students

**Synopsis:** This course is designed as a General Physical Science class. It will be presented in familiar language with minimal technical terminology and help students to connect Chemistry and Physics concepts. The course involves the study of basic relationships between energy and matter as well as motion, waves and the nature of matter. The subject matter is developed through lecture, class notes, class discussion, demonstrations, laboratory and problem solving experiences. NOTE: You cannot take Contextual Physical Science and Physical Science to meet graduation requirements. You may take one or the other but not both.

**Anatomy and Physiology** (2 semesters) (1 credit)

**Level:** 11th - 12th grade

**Prerequisite:** Successful completion of Biology

**Synopsis:** This course is designed for the advanced student with an interest in the medical profession. This course includes the study of the human body, its parts and how they function, along with diseases and disorders common to humans. Some lab work to familiarize the student with testing procedures for certain diseases and dissection is involved. This class will be offered every other year in rotation with Zoology.

**Zoology** (2 semesters) (1 credit)

**Level:** 11th - 12th grade

**Prerequisite:** Successful completion of Biology

**Synopsis:** Zoology is designed to give an in-depth view of animals and their place in the environment. The course will include animal taxonomy, anatomy, physiology, heredity, behavior, and habitat. The laboratory portion of the class will include the use of scientific measurement, microscopic observation, and dissection. This class will be offered every other year in rotation with Anatomy.

**Biology II** (2 semesters) (1 credit)

**Level**: 11-12th college bound students

**Prerequisite**: Successfully completed Biology I and Physical Science and/or Chemistry

**Synopsis**: Biology II is designed to go into greater detail of microorganisms, botany, animal studies, and the human body.  This course is ideal for students going to college that will require taking a life science course.

**Chemistry** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 10th - 12th grade college bound students

**Requirements:** Calculator

**Prerequisite:** Advanced Physical Science or Physical Science, Algebra 1, and enrolled in Algebra II or Geometry

**Synopsis:** This course is for the advanced science student and is designed to help students understand the basics of chemistry, atomic theory, chemical bonding and composition. Equation writing and problem solving are emphasized along with lab work pertaining to various sections covered in this class.

**AP Physics I** (2 semesters)(1 credit) **TEACHER RECOMMENDED**

**Level:** 11th and 12th grade students

**Prerequisites:** Algebra 2 with at least a “B” average

**Synopsis**: The physics curriculum includes interaction of matter and energy, velocity, accelerations, force, energy, momentum, and etc. Students will be challenged to apply their knowledge of the laws of physics to solve physics related critical thinking problems. The subject matter is developed through lecture, class notes, discussion, demonstration, laboratory and problem solving experiences.

**Concepts of Engineering and Technology (STEM)** (2 semesters)(1 credit)

**Level:** 11th -12th grade students

**Prerequisites:** Completion of Geometry, Algebra I, Physical Science, and Biology

**Synopsis:** STEM is designed to give an in depth view of engineering and technology. Concepts that will be addressed in this course will include being able to work in teams, apply systems and optimization techniques, and investigations into how mechanisms work. This hands-on course will require a lot of lab time, projects, and competitions.

**CHEM 1314 GENERAL CHEMISTRY I (1 semester - 4 college credits)**

**Prerequisites:**ACT or Pre ACT Score or 20+ on English and Math or passed placement exam or have a 3.0 grade point average.  **Students must enroll in this class through OSUIT.**

**Description:**The study of fundamental laws, periodic principles, and theories dealing with the structure and interaction of matter, chemical bonding, chemical reactions, the physical states of matter, changes of state, and solutions. The fundamental concepts are applied to the solution of quantitative problems related to chemistry.  Course type is a theory/lab.

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**SOCIAL STUDIES**

**Oklahoma History** (1 semester) (1/2 credit)

**Level:** 9th grade students

**Synopsis:** This course covers the range of Oklahoma History from the prehistoric Spiro Mounds to modern-day Oklahoma. Also taught is a study of Oklahoma geography, politics, and economics. This course is taught in conjunction with US Government.

**Geography** (1 semester) (1/2 credit)

**Level:** 9th grade students

**Synopsis:** This course is designed to help you better understand our constantly changing and complex world through a study of geography. We will study geography from the physical, political, and cultural perspective through the five basic geographical themes of location, place, human-environment interaction, movement, and region. Special emphasis will be placed on geographical skills, and geographic literacy (locating countries, capitals, & physical features of the world).

**Honors Oklahoma History** (1 semester) (1/2 credit)

**Level:** 9th grade advanced students

**Synopsis:** Honors Oklahoma History is a one semester course offered in conjunction with Honors Government. Students will engage in an in-depth study of Oklahoma’s social, political and economic development from the prehistoric era through the present. Students will develop reading, writing, and critical thinking skills that will help prepare them for future advanced coursework in history.

**Honors Geography**(1 semester) (1/2 credit)

**Level:** 9th grade advanced students

**Synopsis:** This course is designed to help you better understand our constantly changing and complex world through a study of geography. We will study geography from the physical, political, and cultural perspective through the five basic geographical themes of location, place, human-environment interaction, movement, and region. Special emphasis will be placed on geographical skills, and geographic literacy (locating countries, capitals, & physical features of the world).  Students will develop reading, writing, and critical thinking skills that will help prepare them for future advanced coursework in history.

**World History** (2 semesters) (1 credit)

**Level:** 10th grade students

**Synopsis:** A survey course covering the development of civilization from prehistory to the present day. This course includes a study of the development and influence of geography, government, economic systems, religion, industry, and the arts.

**AP Human Geography** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 10h grade students

**Synopsis:** This course will present and cover the significance of spatial organization in today’s world, which includes location, events, and the connections that places and humans share on earth. Specific focus throughout the course will include location, space, place, scale, pattern, regionalization, and globalization. Each of the covered concepts are key to a student’s understanding of spatial interaction and behavior, population growth and movement, patterns of culture, the use of nature in economics, and human settlement patterns such as urbanization.

**United States History** (2 semesters) (1 credit)

**Level:** 11th grade students

**Synopsis:** This course offers a study of U.S. history beginning with the Reconstruction Era amendments to the present. The course emphasizes the foundation, formation, and transformation of the American political and economic systems, the cultural contributions of significant Americans, as well as the lasting impact of major events on contemporary America. Upon completion of this course, the student is required to take the state-mandated US History Exam.

**AP United States History** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level**: 11th grade college bound students

**Synopsis:** AP United States History is a study of the history of pre-colonial America through present day United States. Students will apply factual knowledge and develop analytical skills through a close study of eras, events, individuals, and forces of change. Students can develop valuable skills in critical reading, note taking, testing, and analytical writing. This is a college-level course that demands a high level of student responsibility in studying and homework.

**U.S. Government** (1 semester) (1/2 credit)

**Level:** 12th grade students

**Synopsis:** This course is designed for students to gain an understanding of the rights and responsibilities of citizenship in the United States and Oklahoma through the study of the historical development and evolution of the US Constitution and nation. Students will develop the skills needed for informed participation in the national and local systems of government as well as be able to make comparisons to other democratic and autocratic nations. This course is taught in conjunction with Oklahoma History.

**Concurrent U.S. Government**

**Level:** 11th or 12th grade college bound students

Students may take a college Government class, which will meet Government requirement for graduation. See your counselor for more information.

**Psychology** (2 semesters) (1 credit)

**Level:** 11th - 12th students

**Synopsis:** This course will offer a broad introduction to the field of psychology, the study of human behavior and mental processes. The course will examine the various contributors, approaches, theories, and methods of modern Psychology. Topics include: the life span, workings of the mind and body, learning and cognitive processes, personality and individuality, adjustment and breakdown, and social psychology.

**History Through Film** (2 semesters) (1 credit)

**Level:** 11th – 12th students – open enrollment; 10th grade – teacher approval needed

**Synopsis:** This class provides students a unique opportunity to engage in history through the viewing and analysis of Hollywood feature films and use of hands-on activities in a way not possible in a traditional history class.  Students will explore historical topics and themes using films, outside readings, hands-on projects, and class discussions.  Activities will be done both individually and in groups to demonstrate the relevance of particular economic, social, and political issues from American history to today.

This is a history elective, but is still a history class.  It will involve considerable reading and writing in addition to viewing the movies and working on projects.  Students will be expected to analyze and discuss, work independently and in teams, be creative and self-motivated, develop and deliver presentations to the class,  and create displays that may be viewed by the student body and the public.

Due to the mature concepts and content of this class, it is only open to 11th and 12th grade students or 10th grade students with approval from the teacher and counselor.

**Economics** (1 semester) (0.5 credit)

**Level:** 11TH and 12th grade students

**Synopsis:** All persons are affected by economics, whether or not they understand the subject. Those who do understand economics have the advantage. Classroom instruction, computer simulations and outside business leaders will be used to teach students about the role of economics in the student’s life and the world. The students will do projects such as Buying a House, Creating a Business Plan for a start-up business, conduct financial surveys as well as learning the vocabulary and theories of economics.

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**COMPUTER SCIENCE**

**Fundamentals of Technologies**

(2 semesters) (1 credit)

**Level:** 9th - 12th grade students

**Synopsis:** Students will gain an understanding of basic terminology, concepts and components of Microsoft Office Suite. Business Computer Applications such as Word Processing, Spreadsheet, and Graphics are also included. Units on successful methods of study, job readiness, problem solving, teamwork, financial fitness, and job skills will be included in the curriculum. Students will be introduced to Photo editing software, GPS/GIS.

**Fundamentals of Technologies II**

(2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 10th – 12th grade students

**Prerequisite:** Fundamentals of Technologies

**Synopsis:** Fundamentals of Technologies II provides the student with a general overview of computer applications that are used in the business world today. Practical experience will be offered in the use of Microsoft Office. These applications include WORD, EXCEL, PowerPoint and ACCESS. During the year we will continue to work on typing skills and computer coding. Problem Solving will be developed in the programming and running of NXT Robots. Students will develop an understanding of engineering design and the relationships it incurs with other fields of study, and basic financial literacy involving saving, investing and budgeting money.

**Computer Science Essentials** (2 semesters) (1 credit)

**Level:** 9th – 12th grade students:

**Prerequisite:** a PLTW computer course from middle school or Fundamentals of Technologies

**Synopsis:** PLTW Computer Science Essentials exposes students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence.

Students will use visual and block based programming and seamlessly transition to text-based programming such as python to create apps, program robots, develop websites and learn how to make computers work together to put their design into practice.  Students will learn to apply computational thinking practices, build their vocabulary, and collaborate just as professionals do.

**FOREIGN LANGUAGE**

**Spanish 1** (2 semesters) (1 credit)

**Level:** 9th - 12th grade students with at least a C average in English. Two years of Spanish are recommended for high school students and are highly recommended for college bound students.

**Synopsis:** This course is the first step to proficiency in the Spanish language and culture. Students will begin to acquire reading, writing, listening and speaking skills. Students will learn basic grammar, vocabulary and conversational phrases useful in travel and other encounters with native speakers of Spanish.

**Spanish 2** (2 Semesters) (1 credit)

**Prerequisite:** Successful completion of both semesters of Spanish I.

**Synopsis:** Spanish 2 is a continuation of Spanish 1.

**Spanish 3** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Prerequisite:** Students must have maintained at least a **B average** in all previous Spanish classes.

**Synopsis:** This course is the next step to proficiency in the Spanish language and culture. Students will begin a more in-depth study of Spanish grammar, literature and film in order to develop skills necessary for college-level courses.

**Spanish 4/5** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Prerequisite:** Students must have maintained at least a **B average** in Spanish 1, 2 and 3.

**Synopsis:** In this course, students will begin to understand more complex written and spoken language as they explore the literature, film and popular culture of various Spanish-speaking countries.

**FINE ARTS**

**Art 1** (2 semesters) (1 credit)

**Level**: 9th - 12th grade students

**Synopsis:** This course introduces students to basic study in the Arts. Major areas of emphasis include drawing, color theory, printing, painting, design, and clay. Technique, terminology, and history will be included in each unit. Students will be evaluated on individual progress, not artistic "talent".

**Drawing** (1 semester) (1/2 credit) **TEACHER RECOMMENDED**

**Level**: 10th - 12th grade students

**Prerequisite:** Successful completion of Art 1

**Synopsis:** This course will be based on drawing from observation. Students will build a solid foundation of their drawing skills.

**Ceramics/Sculpture** (1 semester) (1/2 credit) **TEACHER RECOMMENDED**

**Level:** 10th - 12th grade students

**Prerequisite:** Successful completion of Art 1

**Synopsis:** Students will explore multiple materials used in sculpture. Creative fabrication will be emphasized. Students will study sculptures, vocabulary and concepts associated with 3-dimensional art and sculpture.

**Art 3, & 4** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Recommendation:** 11th - 12th grade students

**Prerequisite:** Successful completion of Art I, Drawing, and Sculpture

**Synopsis**: Students will be encouraged to pursue their individual interests in depth.

**Independent Art Lab 1, 2, 3, & 4** (2 semesters) (1 credit) **PRE-ARRANGED**

**Level:** 12th grade students **TEACHER REQUIREMENT**

**Prerequisite:** Successful completion of Art 1, Drawing, and Ceramics/Sculpture

**Synopsis:** This course is limited to students who have scheduling conflicts with Art 4. This course cannot be taken consecutively with other art classes unless art is your declared major. Students must demonstrate the ability to work independently and be self-directed.

**Drama 1** (2 semesters) (1 credit)

**Level:** 9th - 12th grade students

**Synopsis:** This course will give an introduction and overview into the world of drama. A brief history of the origins of drama will be covered. Performance aspects will be focused on, including pantomime, improvisation and stage combat. Vocal elements, acting styles, and an into to script writing will also be included. Everyday class participation and **in-class performance will be required.** Outside class participation will be encouraged as students learn the techniques of working backstage at performances.

**Drama 2** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 10th - 12th grade students

**Prerequisite:** Drama 1

**Synopsis:** **This is a performance class.** This course will give an introduction and overview into the world of drama. A brief history of the origins of drama will be covered. Performance aspects will be focused on, including pantomime, improvisation and stage combat. Vocal elements, acting styles, and an into to script writing will also be included. Everyday class participation and **in-class performance will be required.** Outside class participation will be encouraged as students learn the techniques of working backstage at performances. Students will be strongly encouraged to participate in speech competitions.

**Drama 3** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 11th - 12th grade students

**Prerequisite:** Drama 2

**Synopsis:** **This is a performance class.** This course will give an introduction and overview into the world of drama. A brief history of the origins of drama will be covered. Performance aspects will be focused on, including pantomime, improvisation and stage combat. Vocal elements, acting styles, and an into to script writing will also be included. Everyday class participation and **in-class performance will be required.** Outside class participation will be encouraged as students learn the techniques of working backstage at performances. Students will be strongly encouraged to participate in speech competitions.

**Drama 4** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 12th grade students

**Prerequisite:** Drama 3

**Synopsis**: **This is a performance class.** This course will give an introduction and overview into the world of drama. A brief history of the origins of drama will be covered. Performance aspects will be focused on, including pantomime, improvisation and stage combat. Vocal elements, acting styles, and an into to script writing will also be included. Everyday class participation and **in-class performance will be required.** Outside class participation will be encouraged as students learn the techniques of working backstage at performances. Students will be strongly encouraged to participate in speech competitions.

**Speech** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 9th - 12th grade students

**Synopsis:** Students will learn the importance of public speaking, as well as how to research, construct and perform pieces of original writing. Students will memorize and perform all types of speeches, informal and formal, including but not limited to prose, poetry, manuscript, informative, persuasive, and monologues in the classroom Participating in speech competitions will be strongly encouraged.

**Choraliers** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 9th - 12th grade students

**Prerequisite:** Audition

**Synopsis:** This class is mixed chorus and designed for the students who are further along in the study of singing. Enrollment will be by audition only. Auditions for students that have not been in the choir the previous year or at all will be held each April or May for the following year. The judge will be the current Choir Teacher. This is a **Performance Class**. Students will perform in District and State Contests during the year and concerts that are mandatory. Students are strongly encouraged to try-out for Multiple All-State, Honor Choirs, and attend various concerts outside of the school day. Students must be willing to learn various styles of music. Students must purchase their own uniform. Students must pay and take a mandatory school drug test.

**Mixed Show Choir** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 9th -12th grade students

**Prerequisite:** Audition before Choral director and Middle School chorus or have a desire to sing classical songs.

**Synopsis**: This choir will require students to be willing to sing and dance together. They must provide their own costumes and must be willing to perform in front of crowds. This choir will learn various styles of music for show choir. This choir will also be required to come to out-of-school rehearsals and out-of-school performances. A short audition of simple moves and singing will be required before you will be allowed to perform with this group. This is not a T.V. show. This is real show choir. Performances are mandatory in school and outside school performances. Some dance workshops are optional and some mandatory. Students are always responsible for any fees. Fund-raising for this group will happen. Student choreography will be encouraged in this group. Students in this group must pay and take a mandatory school drug test.

**Instrumental Music - Band** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 9th-12th grade students

**Prerequisite:** Previous musical experience

**Synopsis:** High School Band further develops and refines musical skills of the individual and the group through diverse performances and competitive opportunities. During the first 9 week period, the emphasis is marching performance, including fundamental instruction and competition. The second 9 week period focuses on individual techniques in transition to concert band, including district, regional, and state honor band auditions and concerts. The third 9 week period is preparation for full band and individual competitions at the district and state level. The fourth 9 week period includes a spring trip / contest and concerts. All group performances and competitions are required. Individual performances and competitions are encouraged.

**Stageband** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level**: 9th-12th grade students

**Prerequisite**: Concurrent enrollment in HS Band or HS Chorus. Specific Instrumentation.

**Synopsis**: This course includes instruction in performance of specific types/genres and styles of music that encourage and develop creativity, synthesis, and evaluation through improvisation and small group activities. Required Performances will include concerts, competitions, and other local events.

**FAMILY AND CONSUMER SCIENCE**

**Family and Consumer Science Basics** (2 semesters) (1 credit)

**Level:** 9th - 12th grade students

**Synopsis**: This course is designed to provide students with basic information and skills needed to function effectively within the family and a changing, complex society. Emphasis is given to the development of competencies related to relationships, communication and conflict resolution, caring for children, designing personal space, basic sewing skills, clothing selection and care, promoting good health and nutrition, food selection and preparation, and career exploration. Upon completion of this course, the student will have developed basic life skills that promote a positive influence on the quality of life. Student leadership through Family, Career and Community Leaders of America (FCCLA) is an integral part of this course.

**Lifetime Nutrition and Wellness** (2 semesters)(1 credit)

**Level:** 9th – 12th grade students

**Synopsis:** A laboratory course in which students use nutrition knowledge to make informed choices to promote a lifetime of wellness, the importance of healthy eating and physical activity across the life span. Students will learn safe food handling practices, healthy menu planning and food preparation techniques, and how to recognize sources of stress and healthy strategies to reduce the impact of stress on total wellness. Needs of the competitive athlete are also addressed. Student leadership through Family, Career and Community Leaders of America (FCCLA) is an integral part of this course.

**Fashion Design I** (2 semesters) (1 credit)

**Level:** 9th – 12th grade

**Synopsis**: An introductory course that provide students with the most current information about the basic concepts and business aspects of fashion marketing and merchandising. It introduces students to the field of fashion promotion and provides foundational fashion concepts related to economics, textiles, and design. Students will learn basic fashion concepts and marketing terminology, fashion cycles, key components of the fashion industry, retail merchandise categories, and fashion promotion. Current issues related to industry globalization, social media, and sustainability as well as essential career skills and career opportunities will be explored. Student leadership through Family, Career and Community Leaders of America (FCCLA) is an integral part of this course.

**Culinary Basic Skills**

**Level:** 9th – 12th

**Synopsis:** This course focuses on food and workplace safety, kitchen management basics and culinary exploration including stocks, sauces and soups, breakfast foods, and the science of baking. The importance of teamwork in the food service environment is emphasized. Student leadership through Family, Career and Community Leaders of America (FCCLA) is an integral part of this course. This course is a laboratory-based course.

**Marriage, Parenting and Family Life**

**Level:** 9th – 12th

**Synopsis:** This course examines how relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers. Student leadership through Family, Career and Community Leaders of America (FCCLA) is an integral part of this course.

 **PE / ATHLETICS**

**Recreation and Leisure** (2 semesters) (1credit)

**Level:** 9th - 12th grade students

**Synopsis:** Recreation and Leisure will provide the student with a variety of both indoor and outdoor activities. Presenting the student with many different activities will increase the students’ knowledge and competence as well as a motivation to engage in a life-long healthy lifestyle with physical activity. Physical activity goes hand in hand with helping the student to relieve stress, increasing one’s ability to work with others, gain confidence, develop strategies, and improve problem solving ability.

**Health (Total Wellness and Fitness)** (2 semesters) (1credit)

**Level:** 10th - 12th grade students

**Synopsis:** This class will teach the basic concepts in fitness, nutrition, mental health, and total

body wellness. It will examine the primary health concerns facing our country today, and present the information and skills needed to combat these issues. Furthermore, this class will look at the most common behaviors practiced and the consequences of the behaviors. This class will consist of lectures, class activities, and demonstrations.

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**Outdoor Education** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level**: 10th – 12th grade students

**Synopsis**: Outdoor Education will provide the student with an increase in their understanding of their natural and human communities which leads to a sense of place. Through this connection of place, they will develop a stronger connection to their environment and civic behaviors. Outdoor learning experiences are the foundation of raising the next generation of active citizens who take care of their natural and human communities. These experiences will include but not limited to hunter education, aquatic education, archery, bow fishing and fishing.

**9th grade Boy's Athletics** (2 semesters) (1 credit) **COACH RECOMMENDED**

**Level:** 9th grade football, basketball, baseball players, and wrestlers

**Synopsis:** This course is for participating athletes only.

**9th grade Girls’ Basketball** (2 semesters) (1 credit) **COACH RECOMMENDED**

**Level**: 9th grade girl basketball players

**Synopsis:** This class starts before school and continues through the 1st period class

**High School Girls’ Basketball** (2 semesters) (1 credit) **COACH RECOMMENDED**

**Level:** 10th - 12th grade girl basketball players

**Synopsis:** This class starts before school and continues through the 1st period class.

**High School Girls’ Softball** (2 semesters) (1 credit) **COACH RECOMMENDED**

**Level:** 9th - 12th grade girls’ fast pitch and slow pitch players

**Synopsis:** This class will be during 7th period and continue after school.

**High School Girls’ and Boys’ Golf** (2 semesters) (1 credit) **COACH RECOMMENDED**

**Level:** 9th - 12th grade golfers

**Synopsis:** This class will be during 7th period and continue after school.

**High School Boy's Athletics** (2 semesters) (1 credit) **COACH RECOMMENDED**

**Level:** 10th - 12th grade football, baseball, basketball players and wrestlers.

**Synopsis:** This course is for participating athletes only and will be 7th hour.

**Body Mechanics (Boys and Girls)** (2 semesters) (1 credit) **COACH RECOMMENDED**

**Level:** 9th - 12th grade athletes

**Prerequisite:** Must be in high school athletics

**Synopsis:** The class is designed for athletes with emphasis being placed on: (1) anaerobic and aerobic exercise, (2) fundamentals of human physiology and kinesiology, and proper diet and nutrition. At the end of course students will have the basic knowledge of musculature and skeletal systems' relationships in various movements

**AGRICULTURE EDUCATION**

\*\* You must have had Agriscience 1 before you are allowed to enroll in any other agriculture class.

\*\* Freshmen are allowed to enroll in Agriscience only.

\*\* Livestock projects are not required. However, bonus points for livestock projects, judging contests and shop projects are given. Membership in FFA is required, FFA dues are $12.00. Facilities for livestock or crops are provided for those who can't keep them at home.

**Agriscience 1** (2 semesters) (1 credit)

**Level:** 9th - 12th grade students

**Synopsis:** Introductory course that acquaints students to all fields of agriculture including: animal science, plant science, leadership activities, and record keeping. FFA membership and participation is required. This course is designed as a prerequisite to all other agriculture courses.

**Agriculture Power & Technology** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level**: 10th - 12th grade students

**Prerequisite:** Agriscience

**Synopsis:** Curriculum provides information about the selection, operation, maintenance, and use of electricity, agricultural machinery and equipment and agricultural shop, including welding, cutting, and wood working.

**Horticulture 1** (2 semesters) (1 credit)

**Level:** 10th – 12th grade students

**Prerequisite:** Agriscience 1

**Synopsis:** An introduction study of plants in a greenhouse and other controlled environments. Objectives will include establishing, maintaining, and management of ornamental horticulture enterprises. Classroom content will include classroom lecture, laboratory, and competitive activities, identification of plants, trees, shrubs, selection and judging, as well as basic information regarding horticulture.

**Greenhouse Management** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 11th -12th grade students

**Prerequisite:** Horticulture

**Synopsis:** This course is designed to acquaint students with the production of greenhouse plants, observing growth responses through experimentation, and qualitative changes due to fertilizer & soil treatments. Students will learn to use environmental controls to adjust the seasons within a greenhouse. Using the school greenhouse, students will grow thousands of plants from start to finish by using both sexual & asexual propagation techniques. Interpretation of the results will be documented as the students participate in the production and marketing of the plants that they grew, thus resulting in the "real world" application of science as it relates to the horticulture industry. (Greenhouse Management and Nursery/Landscape Operations & Management are in rotation yearly).

**Nursery/Landscape Operations & Management**  (2 semesters) (1 credit) **TEACHER**

**Level: 11th -12th grade students RECOMMENDED**

**Prerequisite:** Horticulture

**Synopsis:** This course is designed to acquaint students with the classification, taxonomy & identification of landscape plants, observing growth responses through experimentation, and qualitative changes due to fertilizer & soil treatments. Trees and shrubs will be the major point and focus for this class. Pruning, propagating, and planting of these plants will be done at both school and after school activities. Using the school greenhouse, students will grow thousands of nursery plants from start to finish by using both sexual & asexual propagation techniques. Interpreting the results of their efforts will be made as the students participate in the production and marketing of the

plants that they grew, thus resulting in the "real world" application as it relates to the horticulture industry. (Greenhouse Management and Nursery/Landscape Operations & Management are in rotation yearly).

**Introduction to Natural Resources and Environmental Science** (2 semesters) (1 credit)

**Level**: 10th – 12th grade students

**Prerequisite**: Agriscience I

**Synopsis:** This course is for students with an interest in the use and stewardship of natural resources and the environment. Content includes the importance of natural resources, issues associated with preservation and conservation, kinds of resource use, human population demands, recycling, ecology, weather and climate, biosecurity, land description, energy, minerals, rangeland, and waste management.

**Ag Communications** (2 semesters) (1 credit)

**Level**: -10th – 12th grade students

**Prerequisite**: Agriculture I

**Synopsis**: This course introduces the broad field of agricultural communication and provides for the development of knowledge and skill in specific areas related to communications theory and practice. Content includes news and feature writing in agriculture, news photography, layout and design, and ethics in agricultural communication. Content may also include web design and broadcast journalism in agriculture. Students will be encouraged to begin developing a portfolio in an area of interest such as print media, electronic media, or public relations. FFA and supervised experience will be included as appropriate. Participation in public speaking is encouraged as communication practice.

**AIDE POSITIONS AND CAREERS**

**Peer Aide** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 10th - 12th grade students who would like to work in Special Education.

**Requirement:** For these teachers only: Mrs. Lee, Mr. Lofton, Mr. Reese, Mrs. Garrison, and Mrs. Holcomb

**Synopsis:** Students will assist with special students in numerous settings. Duties will consist of working one-on-one and providing guidance and assistance in the areas of grooming, physical therapy, feeding, completing individual tasks, house-hold chores, leisure activities, and social and academic needs. Peer aides will be graded on their attendance, attitude, participation, and following classroom guidelines. Duties may require responsibilities outside regular classroom time. Parents should be aware of enrollment and aides should receive teacher approval.

**Media Aide** (2 semesters) (1 credit) **LIBRARIAN RECOMMENDED**

**Level**: 11th - 12th grade students

**Requirements:** Application Process.

**Synopsis:** Media Aides will each be responsible for shelving and maintaining sections of circulating books. Each aide will be expected to submit a creative project each nine weeks (display of themed books, library signage, etc.). They will also be expected to operate the circulation computer--checking in & out library materials and alerting students about overdue items and any fines. Other Media Center tasks might include, but not be limited to: helping patrons in locating and using library resources; maintenance and cleaning of mobile laptop labs, straightening the magazine rack and newspapers; general cleaning and filing videos. Library Media Aides will be graded daily on attendance, attitude, job completion, participation, and following Media Center guidelines.

**Administrative Aide** (2 semesters) (1 credit) **TEACHER RECOMMENDED**

**Level:** 11th - 12th grade students.

**Requirements:** Application Process.

**Synopsis:** Primary duty involves delivering notes, answering the phone, and putting up mail. Administrative aides are expected to keep all information or actions seen in the office confidential. Confidentiality for all students is the utmost requirement. Administrative Aides will be limited to two aides per hour.

**Careers/Internship** (2 semesters) (1 credit)

**Required:** 12th grade students

**Synopsis:** This class is for seniors who have provided documentation of proof of employment or proof of an accepted internship. Students will be able to use one or two class periods of the day to fulfill the weekly requirement. Students will be required to provide a copy of their paycheck or proof of internship on a regular basis and complete career ready coursework in Edmentum. Seniors will be able to enroll in this class when they have proof of employment or internship.