

Boyd Buchanan High School Academic Handbook



2021-2022

REQUIREMENTS FOR GRADUATION

To receive a diploma, a student must satisfactorily meet all graduation requirements and earn a minimum of 24 Carnegie units. In consultation with parents, students may choose the Honors, College Preparatory, or General program. All students are encouraged to seek post-high school training. The Honors and College Preparatory programs are designed to provide students not only with all the prerequisites necessary for admission to most colleges, including the University of Tennessee system, but also to equip them for success in even the most rigorous of post-secondary schools. The student and parents are urged to research the entrance requirements of the college he/she wishes to attend and to plan carefully together the course of studies best for the student.

COLLEGE PREPARATORY DIPLOMA

To qualify for a College Preparatory Diploma, students must complete the minimum requirements listed below. Transfer students with fewer than four Bible credits must substitute electives to fulfill total unit requirements. High School Physical Science taken in middle school will count as an elective. Students are encouraged to take Science every year. **For students considering a competitive university, a 5th credit of math is recommended along with appropriate Advanced Placement courses in multiple subjects.*

| | | | |
|--------------------|---|-------------------------|---|
| Bible | 4 | Wellness | ½ |
| English | 4 | Single Foreign Language | 2 |
| Mathematics | 4 | Fine Arts: Art, Music | 1 |
| Sciences | 4 | Electives | 2 |
| Social Sciences | 3 | | |
| Physical Education | 1 | | |
| ACT Preparation | ½ | | |

- Math units must include Algebra I, Geometry, Algebra II, and Pre-Calculus.
- Science units must include Biology I, Chemistry I, and a Physics course.

Minimum Units 26

- These 3 units must include US Government/ Economics, US History, and World History.
- ½ credit for Biblical Personal Finance is required of all students.

GENERAL DIPLOMA

This diploma **does not meet** the requirements for any four-year college programs. The student and parents are urged to research the entrance requirements of the college or post-secondary program the student wishes to attend and to plan carefully together the course of studies best for the student. Transfer students with fewer than four Bible credits must substitute electives to fulfill the total unit requirement.

| | | | |
|--------------------|---|-------------------------|---|
| Bible | 4 | Wellness | ½ |
| English | 4 | Single Foreign Language | 2 |
| Mathematics | 3 | Fine Arts: Art, Music | 1 |
| Sciences | 4 | Electives | 2 |
| Social Sciences | 3 | | |
| Physical Education | 1 | | |
| ACT Preparation | ½ | | |

- Math units must include Algebra 1, Geometry and Algebra 2.
- Science units must include Biology I, Chemistry I, and a Physics course.
- These 3 units must include US Government/ Economics, US History, and World History.

Minimum Units 25

- Students are encouraged, but not required, to take 2 credits in a single foreign language to meet the entrance requirements for all four year colleges/universities.
- ½ credit for Biblical Personal Finance is required of all students.

HONORS DISTINCTIONS

Beginning with the graduating class of 2024, students may complete the following requirements to earn Honors Distinction in academic disciplines. The previous Honors diploma requirements will end with the Class of 2023. Students may earn as many Honors Distinctions as they wish and are able. Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on the BBS transcript.

Honors Distinction in English:

Successful completion of Accelerated English I, Accelerated English II, Advanced Placement Language and Composition, and Advanced Placement Literature and Composition. Students must complete each course with at least a B average every semester.

Honors Distinction in Mathematics:

Successful completion of 4 of the following: Accelerated Geometry, Accelerated Algebra II, Accelerated Pre-Calculus or Pre-Calculus, and Calculus or Advanced Placement Calculus or Advanced Placement Statistics. Students must complete each course with at least a B average every semester.

Honors Distinction Science:

Successful completion of 4 of the following: Accelerated Biology, Accelerated Chemistry, Physics or Advanced Placement Physics I, and one additional Advanced Placement Science (AP Biology, AP Chemistry, or AP Physics II). Students must complete each course with at least a B average every semester.

Honors Distinction in the Social Sciences:

Successful completion of 2 Advanced Placement courses. This includes Advanced Placement World History, Advanced Placement United States History, or Advanced Placement United States Government and Politics. Students must complete each course with at least a B average every semester.

Honors Distinction in Foreign Language:

Consecutive credits in the same foreign language must be completed (French or Spanish). Successful completion of the following are required beyond the first two years of a foreign language: French III or Spanish III, and French IV or Advanced Placement French or Spanish IV or Advanced Placement Spanish. Students must complete each course with at least a B average every semester.

Honors Distinction in the Fine Arts:

Visual Arts Distinction: Completion of 2 of the following: Advanced Art, Advanced Placement 2-D Art and Design, Advanced Placement 3-D Art and Design, or Advanced Placement Drawing. Students must complete each course with at least a B average every semester.

Performance Arts Distinction: 4 years of high school participation in either Marching Band or Concert Chorus. Students must complete each course with at least a B average every semester.

Honors Distinction in Technology:

AP Computer Science Principles is required. Students must take 2 of the following as well: CAD (Computer Assisted Drafting), Introduction to Coding, Engineering Design/Fabrication, Introduction to Robotics, or Graphic/Digital Design. Students must complete each course with at least a B average every semester.

***Quality Points:** The letter grade on the transcript from the report card (not the quality point) will be the determining factor for qualification.

SENIOR HIGH ACADEMIC POLICIES

1. Students are counseled to take courses appropriate to their plans for post-secondary education.
2. Some courses may not be offered as a result of insufficient demand, teacher placement or scheduling conflicts.
3. Students will not be scheduled for courses for which they have not fulfilled the stated prerequisites. Exceptions are considered by administrative approval.
4. Students are counseled to complete their Wellness, Fine Arts, and World History requirements by the end of their sophomore year.
5. Students are expected to carry 7 credits per year. Exceptions may be made with administrative approval.
6. In order to receive credit for a full-year course, a student must receive a passing grade for the last semester of that course. BBS students may not receive partial credit on full-credit core requirement courses. In order for the student to receive a full credit for the year, not only must the second semester be passed, but the average for the entire year must be a passing grade.
7. Students transferring to BBS during their High School program are required to take a Bible course each semester but are required to take only as many as the number of semesters they attend BBS.
8. No credit is accepted for correspondence, online or summer school courses without administrative approval prior to enrollment in the course. Routine permission will not be granted for repeated failures in the same department. All summer coursework must be completed before the beginning of the new school year. Any senior **not** meeting graduation requirements for commencement must successfully complete coursework by August 1st to receive a Boyd Buchanan School diploma.
9. Because of their nature and difficulty, all Advanced Placement courses receive an additional 1.0 in GPA advancement. Physics and Calculus students will receive a 0.5 in GPA advancement.
10. Advanced Placement students who take the College Board's national examination in the spring may be exempt from the second semester final in their AP class(es) (the student may elect to take the final exam to improve their semester grade). A student who is enrolled in an Advanced Placement course but does NOT sit for the national exam will not receive the AP designation on his transcript. The course name will be changed to Honor and they lose the quality point. The College Board does not designate courses to be AP unless the national exam is taken.
11. Boyd Buchanan eighth grade students passing Algebra I, Physical Science, and Foreign Language (Spanish I, French I, etc) will receive 1 credit per class toward their high school GPA.
12. A high school student who participates in at least one varsity sport and/or marching band may receive ¼ credit per school year to satisfy up to one of the required P.E. credits (4 years of participation equals one credit in P.E.). A student must remain on the team roster the entire season to receive ¼ credit.
13. Electives do not satisfy the core curriculum requirements for graduation.
14. National Honor Society
The Boyd Buchanan chapter of the National Honor Society recognizes outstanding students who have demonstrated the unique traits of scholarship, leadership, character, and service. Students do not apply for membership in the National Honor Society. Membership is granted only to those students selected by a faculty council.

To be eligible for membership, the candidate must be a member of the junior or senior class. The candidate must have been in attendance at the school at least one semester, and have a cumulative grade point average of at least 3.50 on a 4.00 plus scale to be considered for membership.

Candidates must have had at least one college-bound math and one college-bound science and be enrolled in the second courses of college-bound science and math. After meeting GPA and academic course requirements, the candidate is evaluated on the basis of service, leadership, and character.

Once inducted, members must maintain the standards under which they were inducted in order to remain in good standing.

15. Valedictorian and Salutatorian

Each spring seniors from among those with the highest cumulative grade point averages are designated Valedictorian and Salutatorian. These students must have fulfilled the minimum requirements for the Honors Diploma program and be in at least their second year at Boyd Buchanan School. All classes that are P/F or Non-Credit will be removed when calculating for Valedictorian and Salutatorian status.

16. All BBS students are required to be enrolled in an English course, mathematics course, and Bible course each year. Any rare exception will be determined by the administration.

17. Semester exams count 15% of the semester grade.

18. Designated "Top Scholars" will be recognized annually. Students are selected on the basis of the current school year grades, and not on class rank nor cumulative grade point average.

19. All high school students are required to have a fully functioning laptop every class period each school day.

20. Courses may not be dropped after the first five days of each semester unless a student is changing levels of a course (i.e. accelerated to regular). After the first five days, a student who wishes to drop an elective course may only do so at the semester. Core courses may not be dropped. Rare exceptions may be made by administration.

BIBLE COURSES

The Bible curriculum is designed to provide students with a solid foundation for lifelong Bible study. Emphasis is placed on basic Bible knowledge with a view to students' applying this knowledge to their daily lives. Eight service hours are required every nine weeks from each high school student. Each course syllabus details the nature of these hours.

Freshman Bible: Biblical Wellness

Semesters: 2

Credit: ½ each semester

Grade Placement: 9

Students will study the relationship between spiritual, physical, and emotional health. Approaching wellness topics from the Biblical perspective that all people are created by God and are made in His image. Topics covered will include, but are not limited to, healthy habits, nutrition, general safety, first aid, managing stress, online/social media responsibility, goal setting, healthy relationships, and the importance of sleep/rest. Students will need a Bible for this course (preferably a physical Bible).

Sophomore Bible

Study of Old and New Testament Figures

Semesters: 2

Credit: ½ each semester

Grade Placement: 10

Students study a variety of different male and female figures in the Bible examining their character, identity, and what role each played in God's Word. Students will recognize what influence each figure had in the lives of those around them. In addition, students will discover how God worked in each of their lives and learn what we can gain from each figure to discover more about who God is.

Junior Bible: Biblical Personal Finance (required for graduation)

Semesters: 1

Credit: ½

Grade Placement: 11

Personal Finance is a course designed to apply Biblical wisdom to financial decision-making. Students will see how individual choices directly influence occupational goals and future earnings potential. Biblical topics include stewardship, generosity, debt, giving and thanksgiving. Real world topics covered will include income, money management, spending and credit, taxes, as well as saving and investing.

Junior Bible: Comparative World Religions

Semesters: 1

Credit: ½

Grade Placement: 11

In this one-semester course, students will study the practices, beliefs, and intricacies of the world's major religions. Additionally, students will explore the nature of "religion" as a category of human experience. The goal is to understand, as much as possible, religions as they relate to their historical and cultural contexts.

Senior Bible: Seminar

Semesters: 2

Credit: ½

Grade Placement: 12

The Senior Seminar is a course designed to channel the collective learning and experiences of students into a reflective process on the topic of authentic Christianity. For the purposes of the course, authentic Christianity is defined as a holistic means of thinking, speaking, and acting in a way that honors the life of Jesus Christ, leading an individual into discipleship and Gospel community. Students explore aspects of Christian Worldview and concepts of Kingdom Citizenship while actively engaging in community service experiences both on and off campus. Throughout the course, students compile a portfolio that serves as an artifact of their spiritual journey as they prepare to begin the next chapter of their lives.

ENGLISH COURSES

English I

Semester: 2

Credit: 1

Grade Placement: 9

This course introduces students to senior high English with a variety of literature genres. The reading includes a Shakespearean play, and American short stories, as well as other genres of literature. Emphasis will be placed on reading comprehension and the ability to understand major themes and the literary devices used to convey them. Writing will be used as a common response to reading in order to improve comprehension of the text as well as composition skills with focuses on grammar, tone, and organization of thought. In addition to literature studied in class, outside reading, vocabulary, and a research paper are required in this course.

Accelerated English I

Semesters: 2

Credit: 1

Grade Placement: 9

Prerequisite: Outstanding completion of eighth grade English with a "B" or departmental approval.

This course moves at a faster pace than standard English I with an emphasis on critical and analytical thought. It introduces students to senior high English with a variety of literature genres. The reading includes a Shakespearean play and American short stories, as well as other genres of literature. Emphasis will be placed on reading comprehension and the ability to understand major themes and the literary devices used to convey them. Writing will be used as a common response to reading in order to improve comprehension of the text as well as composition skills with focuses on grammar, tone, and organization of thought. In addition to literature studied in class, outside reading, vocabulary, and a research paper are required in this course. Students will be given more outside reading and more timed writing assignments than standard English I in order to broaden their literary knowledge and challenge their composition skills. Class discussion will be utilized to encourage critical thought and provide a platform for rhetorical essays.

English II

Semesters: 2

Credit: 1

Grade Placement: 10

Prerequisite: Satisfactory completion of ninth grade English.

This course includes the study of literature from many world cultures. Beginning with an investigation of culture, students will understand the commonalities and differences among human cultures as represented in literature, media, and nonfiction. Emphasis will be placed on the development of critical and analytical thinking skills through classroom discussion, seminar, and compositions. In addition, students will conduct a research project on a current, real-world issue. In the writing process, students will continue to explore language for expressive, informational/explanatory, analytical, argumentative, and literary purposes as appropriate to the author's purpose. Students will use standard conventions in all compositions. Outside reading and the study of vocabulary is required in this course.

Accelerated English II

Semesters: 2

Credit: 1

Prerequisite: Outstanding completion of ninth grade English with a "B" or departmental approval.

This course is intended to prepare students for AP Language & Composition and AP Literature. Not only does this course move at an accelerated pace, but it also consists of a rigorous curriculum intended to challenge the students' thinking. If a student does not plan to take AP Language & Composition nor AP Literature, this course may not be suitable for your graduation path. The course begins with a unit that focuses on the process of analysis training students to think metaphorically rather than literally. The thematic units for this course include Identity and Society, Ambition & Restraint, Ethics, Cultures in Conflict, and Utopia/Dystopia. Throughout these thematic units of study, students will learn literary and compositional skills needed to be successful in their AP courses. Emphasis will be placed on the development of critical and analytical thinking skills needed to synthesize information through the reading of

complex texts, classroom discussion, seminar, and compositions. Outside reading and the independent study of vocabulary is required in this course.

English III

Semesters: 2

Credit: 1

Grade Placement: 11

Prerequisite: Satisfactory completion of tenth grade English.

Thematic and historical approaches of American literary history are the basis for English III. The class integrates lessons on vocabulary and advanced grammar and punctuation throughout the year. Students learn how to write with more complexity and richness by completing a variety of writing assignments. To continue their development with research skills, English III offers students additional practice in documentation of sources, using MLA, organization of material, completing and analyzing research, and compiling a research project. Students are presented the major works of noted American authors and complete various assignments including essays and projects.

Advanced Placement English: Language and Composition

Semester: 2

Credit: 1

Grade Placement: 11,12

Prerequisite: Outstanding completion of tenth grade Accelerated English.

*A student who enrolls in this course must obtain a minimum combined score of 60 in Reading, Writing, & Language on the PSAT. Exceptions can only be made by Boyd Buchanan Administration and the English Department Head.

Juniors may enroll in AP English: Language and Composition and then as seniors take either English IV, or AP English: Literature and Composition. In special situations, consideration will be given to granting exceptions to those qualified seniors who wish to enroll in both AP English: Language and Composition and AP English: Literature and Composition. Seniors who wish to take AP English: Language and Composition in addition to their senior English IV class may do so.

This course engages students in becoming skilled readers of prose written from various literary periods, disciplines, and rhetorical contexts. Students become writers who are more skilled by composing pieces for a variety of purposes and audiences. The purpose of this course is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity in order to communicate effectively with mature readers. Students specifically gain skills through their study and practice of nonfiction and persuasive essays.

Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcript.

English IV

Semesters: 2

Credit: 1

Grade Placement: 12

Prerequisite: Satisfactory completion of eleventh grade English.

English IV is a yearlong required course focused on college readiness that covers an array of literature and writing styles with a particularly British emphasis. Students will analyze the historical, political, social, economic, and cultural messages of a given time period in Great Britain as well as the relevance of the literary works to the world students live in today. English IV students are expected to produce coherent and well-organized writing using the writing process and incorporate their weekly independent study of vocabulary. A wide variety of assessments will measure students' progress throughout their study of the content. Full participation, high quality work, and assignment completion are required.

Advanced Placement English: Literature and Composition

Semester: 2

Credit: 1

Grade Placement: 12

Prerequisite: Outstanding completion of eleventh grade English.

*A student who enrolls in this course must obtain a minimum combined score of 60 in Reading, Writing, & Language on the PSAT. Exceptions can only be made by Boyd Buchanan Administration and the English Department Head.

A primary goal of this course is to prepare students for successful performance on the AP Literature Test; however, the course embraces a wide variety of literary concepts in order to provide a truly well rounded English education. While reading, writing, and classroom discussion are typical staples of the course, students will experience a unique array of works in all genres and in various mediums and will respond to these works with a diverse range of creative and analytical assessments. Students will examine contemporary and classic works of both poetry and prose and will practice writing skills designed to prepare every student for academic writing on the college level. The course is academically rigorous but very fulfilling and requires a solid work ethic, and a high degree of thoughtfulness, and personal creativity.

Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcripts.

ENGLISH ELECTIVE COURSES

*These courses do not meet English graduation requirements, but meet elective graduation requirements.

Creative Writing

Semester: 1

Credit: ½

Grade Placement: 10-12

The purpose of this course is to develop the students' writing and their creative voice through a study and imitation of various styles and through a variety of original writing assignments. Students work both independently as well as collaboratively to develop and polish their work.

Fundamentals of Speaking and Debate

Semesters: 1

Credit: ½

Grade Placement: 10-12

Fundamentals of Speaking and Debate is a practical and general course designed for students who desire to improve their communication skills, speech proficiency, poise and self-confidence in public speaking situations. The course is designed to develop better intrapersonal and interpersonal communication skills and lead the potential speaker step-by-step from simple to relatively complex original speaking presentations.

Students who complete the required work will be prepared to achieve two major objectives: First, to understand the principles of effective oral communication, and second, to be able to apply these principles in actual speaking situations.

Yearbook- Application required

Semesters: 2

Credit: 1

Grade Placement: 10-12

This course is for creative and highly motivated students. It focuses on creating the school's yearbook within the school year. In doing so, students must meet all scheduled deadlines. Students develop their creative skills in page design and layout; their writing and proofreading skills are enhanced through writing articles. Students are required to photograph sporting events as well as other school activities. Some after-school work may be required.

MATHEMATICS COURSES

The mathematics curriculum outlined in the following courses is intended to prepare each student for college-level work in mathematics. Consideration should be given to the recommendation of the math department regarding the best placement of each student. This recommendation is based on previous performance in mathematics and study skills. Students who receive summer school credit will not be enrolled in accelerated or honors courses without the approval of the department head and the administration.

*** The TI-84 calculator is required for all courses. If purchasing a calculator, the TI-84 Plus CE is highly recommended.**

Algebra I

Semesters: 2

Credit: 1

Grade Placement: 8-11

This course introduces the basic structure of Algebra. Emphasis is placed on performing basic operations, solving linear equations, working with polynomials, coordinate graphing, systems of linear equations, and the application of algebraic skills in problem solving. Topics will also include quadratic equations, factoring, functions, exponents, and radicals.

Geometry

Semesters: 2

Credit: 1

Grade Placement: 9-12

Prerequisite: Completion of Algebra I.

The goals of this course are to help the student to understand the basic structure of geometry as an axiomatic system, develop powers of spatial visualization, and improve understanding of the deductive methods of reasoning and the need for precision of language in mathematics. Instruction encompasses the basic properties of geometric figures in both two and three dimensions. An introduction to trigonometry is included.

Accelerated Geometry

Semesters: 2

Credit: 1

Grade Placement: 9-10

Prerequisite: At least a "B" average the second semester of Algebra I at Boyd Buchanan School.

This course is designed to be a more rigorous and faster-paced presentation of the traditional topics of plane and solid geometry. Geometric projects and explorations that reflect real life situations are required.

Algebra II

Semesters: 2

Credit: 1

Grade Placement: 10-12

Prerequisite: Completion of Algebra I and Geometry. (Students with less than a C average in the second semester of Algebra I will need a strong Algebra review to be successful in Algebra II.)

This course contains a comprehensive review of the real and complex number systems. Other topics include relations, graphs, linear and polynomial functions, linear equations and inequalities, exponential and logarithmic functions, and determinants and matrices. Continuing goals of this course are the enhancement of a student's ability to reason deductively and to understand the need for precision of language in mathematics.

Accelerated Algebra II

Semesters: 2

Credit: 1

Grade Placement: 10-11

Prerequisite: At least a "B" average in second semester of Algebra I at Boyd Buchanan School.

This course is designed to be a more rigorous and faster-paced presentation of the traditional topics of Algebra II. Additional topics to be included are sequences, series, and a more in-depth study of trigonometry and conics. *

College Algebra

Semesters: 2

Credit: 1

Grade Placement: 11, 12

Prerequisites: Completion of Algebra I, Geometry, and Algebra II

This course covers advanced algebra content and skills to prepare students for Pre-Calculus in college. Topics include various functions, designed to help those who have had two years of algebra strengthen their understanding and skill.

Probability and Statistics

Semesters: 2

Credit: 1

Grade Placement: 11, 12

Prerequisite: Completion of Algebra II with at least a C average.

This introductory course is appropriate for all college-bound students. Statistics is the art of gathering, analyzing, and making inferences from data. This course includes an introduction to statistics, statistical descriptions, frequency distributions, possibilities and probabilities, probability distributions, sampling, sampling distributions, testing hypothesis, and uses appropriate statistical models to draw conclusions from data.

This course may be taken concurrently with pre-calculus. *Students interested in a career in the natural sciences, chemistry, physics, mathematics engineering, or medicine should only take this course as an elective in addition to pre-calculus or calculus.*

Pre-Calculus

Semesters: 2

Credit: 1

Grade Placement: 11,12

Prerequisite: Algebra I, Geometry, and Algebra II (with a "B" average in the second semester of Algebra II at BBS or administrative approval).

This course includes the traditional topics of college preparatory pre-calculus. It is an integrated study of trigonometry, analytic geometry, and the usual topics of advanced algebra. This course is appropriate for those students who plan to continue the study of mathematics by enrolling in calculus. *

Accelerated Pre-Calculus

Semesters: 2

Credit: 1

Grade Placement: 11,12

Prerequisite: Algebra I, Geometry, and Algebra II (with at least a "B" in the second semester of Algebra II at BBS). Accelerated sections of the prerequisites are highly recommended. (No summer school credit will satisfy the prerequisite.)

This course is intended for above-average, self-motivated students who wish to experience a challenging introduction to college mathematics, including an integrated study of trigonometry, analytic geometry, and the usual topics of advanced algebra. Projects and laboratories that reflect real-life situations are required. This course is appropriate for those students planning to enroll in calculus or AP Calculus. *

Calculus

Semesters: 2

Credit: 1

Grade Placement: 12

Prerequisite: Strong performance in Pre-Calculus at BBS. (No summer school credit will satisfy the prerequisite.)

While including a thorough treatment of analytic geometry, this course begins with limits, and then deals with differential calculus and its applications. In the second semester, emphasis is given to integral calculus, transcendental functions, and methods of integration.

Advanced Placement Calculus AB

Semesters: 2

Credit: 1

Grade Placement: 12

Prerequisite: Strong performance in Pre-calculus (a B or better) at BBS. (No summer school credit will satisfy the prerequisite.)

This is an Advanced Placement course in single variable calculus. It includes techniques and applications of the derivative and the definite integral. Algebraic, numerical, and graphical representations are emphasized throughout the course. Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcript. *

Advanced Placement Statistics

Semesters: 2

Credit: 1

Grade Placement: 12

Prerequisite: Successful completion of Pre-calculus (a B or better) at BBS. (No summer school credit will satisfy the prerequisite.)

This is an Advanced Placement course in statistics. It includes exploring data, sampling and experimentation, anticipating patterns, and statistical inference. This course draws connections between all aspects of the statistical process, including design, analysis, and conclusion. It teaches communication methods, results, and interpretations using the vocabulary of statistics. This course includes direct instruction as well as a project conducted and presented by the student. Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcript. *

SCIENCE COURSES

Biology I

Semesters: 2

Credit: 1

Grade Placement: 9, 10

This study of the science of life utilizes a variety of strategies, including laboratories and discussion. Students investigate the structures and function of cells as well as the transfer of energy during photosynthesis and respiration; evidences of biological evolution and forces of natural selection are analyzed. Students also investigate concepts of genetics and heredity in addition to the patterns of heredity and genetic disorders. DNA technologies are explored and evaluated from a scientific and ethical perspective. Systems of classification and the interactions of organisms with their environment through population dynamics and patterns of behavior are studied.

Accelerated Biology I

Semesters: 2

Credit: 1

Grade Placement: 9, 10

Prerequisite: "B" in eighth grade physical science or instructor's permission.

This accelerated class is designed for those students who desire a faster-paced, more in-depth study of the topics of Biology I. Students who excel in science or intend to take AP Biology are encouraged to take Accelerated Biology I.

Advanced Placement Biology

Semester: 2

Credit: 1

Grade Placement: 10 - 12

Prerequisite: Strong performance in Biology I and Chemistry I or instructor's permission. Accelerated sections of the prerequisites are recommended.

This college-level introductory biology course is designed to cover the major areas included in the College Board outline in preparation for the AP examination. Areas of study include genetics, evolution, molecules and cells as well as recommended laboratory experiences.

Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcript.

Chemistry

Semesters: 2

Credit: 1

Grade Placement: 10-12

Prerequisite: Satisfactory completion of Biology I and Algebra I.

Chemistry is the science dealing with the structure and composition of various materials. The topics studied include electron configuration, periodic properties, chemical bonding, chemical formulas and equations, stoichiometry, gas laws, and properties of solutions. Chemistry is a laboratory-oriented course.

Accelerated Chemistry

Semester: 2

Credit: 1

Grade Placement: 10-12

Prerequisite: Completion of Biology I and Algebra I with at least a "B" average or instructor's approval.

Accelerated takes a deeper and more conceptual approach to Chemistry in an effort to better prepare students for Advanced Placement and college Chemistry. Students who are going into medicine, nursing, engineering, or food nutrition and those who excel in science are encouraged to take Accelerated Chemistry. This is a laboratory-oriented, college-preparatory course.

Advanced Placement Chemistry

Semesters: 2

Credit: 1

Grade Placement: 11, 12

Prerequisite: Strong performance in Algebra II and Chemistry or instructor's permission. Accelerated sections of the prerequisites are recommended.

This second-year chemistry course is designed to strengthen and expand a student's chemistry background to the first-year college level. The topics studied include stoichiometry, thermochemistry, bonding, colligative properties, kinetics, rate laws, equilibrium, acids and bases, pH, and electrochemistry.

Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcript.

Conceptual Physics

Semesters: 2

Credit: 1

Grade Placement: 9-10

Prerequisite: Satisfactory completion of Algebra I.

This course describes the workings of the world around us. Topics to be studied include such subjects as motion, forces, energy, electricity, magnetism, sound, light, and intriguing concepts of modern physics such as relativity, atoms, and nuclei. The laboratory portion of the course is used to improve the students' observations in measurement and in the acquisition, graphing, and interpretation of data.

Physics

Semesters: 2

Credit: 1

Grade Placement: 11, 12

Prerequisite: Satisfactory completion of, or concurrently taking, Pre-Calculus.

Physics is defined as the branch of science that involves the study of physical phenomena in order to establish patterns. Topics to be studied include such subjects as motion, forces, vectors, momentum, energy, waves, light, and electricity. Laboratories will be performed to enhance the students' understanding of the concepts.

Advanced Placement Physics I

Semesters: 2

Credit: 1

Grade Placement: Designed for 11th but 12th may take course

Prerequisite: Completion of Algebra II and concurrently taking Pre-Calculus or Calculus.

AP Physics I provides students with an introductory experience in the concepts and methods of physical analysis, focused kinematics, dynamics, conservation laws, rotation, oscillations and gravitation, mechanical waves and sound, charge, current, and circuits. Students have the primary responsibility for building understanding, with the instructor as a resource and guide. Students will spend instructional time engaging with the textbook, hands-on labs (constituting 25% of instructional time), online homework problems, and tests/exams.

Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcript.

AP Physics 1 is the equivalent to a second-semester college course in algebra-based physics and **will be a prerequisite to take AP Physics 2.**

Advanced Placement Physics II

Semesters: 2

Credit: 1

Grade Placement: 12th grade

Prerequisite: Completion of Advanced Placement Physics I and Pre-calculus.

AP Physics 2 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 fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.

Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcript.

SCIENCE ELECTIVE COURSES

***These courses do not meet science graduation requirements, but do meet elective graduation requirements.**

Introduction to Robotics

A fee is required for this course.

Semester: 1

Credit: ½ each semester

Grade placement: 10-12

This course does not fulfill the Physics requirement for graduation.

Students will learn the basics of using shop tools, shop safety, and the basics of engineering principles while designing tools/machines/equipment for a selected person with special needs. The project will explore brainstorming techniques, researching methods, rapid prototyping procedures, and shop practices for the final product.

CAD/ 3D Printing

A fee is required for this course

Semesters: 1

Credit ½

Grade Placement: 10–12

Prerequisite: Satisfactory completion of Biology I or Accelerated Biology I.

This course introduces computer-aided design with SolidWorks to create parts using a 3D printer. SolidWorks design focuses on parametric modeling while introducing the student to the paperless, computer-based design process utilizing the modern parametric 3-D design software SolidWorks. The course reviews the following topics: design process, design engineering, assembly modeling, mechanism analysis, rapid prototyping, and team design. Students will participate in individual & team design projects.

Introduction to Coding

Semesters: 1

Credit ½

Grade Placement: 10–12

This class will consist of teaching students the basics of coding using various curriculum including, Scratch, Minecraft, Code.org, and CodeHS. Students will be introduced to various computing languages to help them with standard ‘logical’ computing practices.

Engineering Design/Fabrication

Semesters: 1

Credit ½

Grade Placement: 10-12

Students will learn the basics of using shop tools, shop safety, and the basics of engineering principles while designing tools/machines/equipment for a selected person with special needs. The project will explore brainstorming techniques, researching methods, rapid prototyping procedures, and shop practices for the final product.

Agriscience

Semesters: 2

Credit: 1

Grade Placement: 10–12

Prerequisite: Satisfactory completion of Biology I or Accelerated Biology I.

Agriscience is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses and postsecondary study. This course helps students understand the important role that agriculture science and technology plays in the twenty-first century. In addition, it serves as the first course for all programs of study in the Agriculture, Food, & Natural Resources cluster. Upon completion of this course, proficient students will be prepared for success in more advanced agriculture and science coursework.

Small Animal Science

Semesters: 1

Credit $\frac{1}{2}$

Grade Placement: 10–12

Prerequisite: Satisfactory completion of Agriscience or administrative approval.

Small Animal Science is an intermediate course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of small animals, as well as careers, leadership, and history of the industry. Upon completion of this course, proficient students will be prepared for more advanced coursework in veterinary and animal science.

Large Animal Science

Semesters: 1

Credit $\frac{1}{2}$

Grade Placement: 10–12

Prerequisite: Satisfactory completion of Agriscience or administrative approval.

Large Animal Science is an applied course in veterinary and animal science for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of large animals, as well as careers, leadership, and history of the industry. Upon completion of this course, proficient students will be prepared for success in the level-four Veterinary Science course and further postsecondary training.

Human Anatomy & Physiology

Semesters: 2

Credit 1

Grade Placement: 10–12

Prerequisite: Completion of Accelerated Biology I with a B or higher or administrative approval..

Human anatomy and physiology is an elective year-long course that integrates class work, dissections, and other laboratory experiences to present the human as a marvel of creation. Human anatomy is presented from the cellular, tissue, organ, organ system, and organismal level. Physiology of the musculoskeletal, circulatory, respiratory, digestive, nervous, endocrine, excretory and reproductive systems will emphasize the biological engineering and the relationship of form to function. Student labs use a variety of skills that enable students to meaningfully explore both anatomy and physiology. Textbooks, online resources, and hands-on labs will facilitate student learning. This course is designed as an introduction to students heading into various health related fields. It is intended to expose those students to the terminology and techniques that they will be using in their advanced education.

SOCIAL SCIENCE COURSES

World History

Semesters: 2

Credit: 1

Grade Placement: 9-12

In the chronological study of the development of the major cultures of the world, emphasis is placed on the similarities and differences between various cultures and their views toward politics, economics, religion, and other social aspects. The course begins with an ancient civilization review and ends with WWII. These topics are enhanced through the use of lecture, discussion, writing, and audio-visual materials.

Advanced Placement World History Modern

Semesters: 2

Credit: 1

Grade Placement: 10-12

Prerequisite: Outstanding completion of Accelerated Freshman English (at least a "B" average)

Due to writing requirements it is highly recommended that the student be enrolled in Accelerated Sophomore English or an AP English.

AP World History examines themes, patterns, and processes from a global perspective. Students study the historical records from 8000 BC to current issues. Special emphasis is given to regions and societies traditionally under-represented in world history courses. Using the five themes of AP World History and the "habits of the mind for social studies" this study follows the course outline described by the College Board.

AP World History is designed as an introductory college level survey course for students seeking a rigorous program of study. As such, the reading and writing demands are significant and require a highly engaged and motivated student.

Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcript.

United States History

Semesters: 2

Credit: 1

Grade Placement: 11, 12

United States history from Reconstruction to the present is covered with an emphasis on political development, social reform, and domestic affairs. The study concentrates on the understanding of cause-and-effect relationships and on developing the ability to detect historical trends. The course topics are enhanced through the use of lecture, discussion, writing, and audio-visual materials.

Advanced Placement United States History

Semesters: 2

Credit: 1

Grade Placement: 11

Prerequisite: Outstanding completion of World History and Accelerated Sophomore English (at least a "B" average). AP World History is highly recommended, but not required.

Due to writing requirements it is highly recommended that the student be enrolled in AP English: Language and Composition.

Advanced Placement United States History (APUSH) is a program designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. APUSH is a demanding introduction to American history and culture that assumes a high level of interest and competence. APUSH integrates political and social history. Because the course is similar to a first-year college course, students should expect the workload to be challenging. The analytical thinking, writing, and reading skills that students develop in APUSH equip them for college and lifelong learning. Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcript.

Economics

Semesters: 1

Credit: ½

Grade Placement: 11, 12

This course introduces the student to the workings of the free enterprise economic system. The student is given an understanding of the vocabulary of economics and current problems. The government's place in the economy today is surveyed. The free enterprise system is compared with other economic systems. A unit on basic economic decision-making skills such as budgeting, renting/purchasing a home, establishing credit, and investing is included. This course requires outside research and a semester project.

United States Government

Semesters: 1

Credit: ½

Grade Placement: 11, 12

Students enrolled in this course study and analyze the basic law of the United States (the Constitution) and its past and present applications. The structures of both federal and state governments are surveyed. A current-events journal, out-of-class reading, and a semester project are required. The objective is to help students become active and effective participants in the American system of government.

Advanced Placement United States Government and Politics

Semesters: 2

Credit: 1

Grade Placement: 11, 12

***Due to writing requirements, it is highly recommended that students be enrolled in an AP English course while taking AP Government.**

AP® United States Government and Politics is an intensive study of the formal and informal structures of government and the processes of the American political system, with an emphasis on policy-making and implementation. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes in government and politics. The concepts and specific topics examined in this course are those that may appear on the AP exam.

Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcript.

SOCIAL SCIENCE ELECTIVE COURSES

***These courses do not meet social studies graduation requirements, but do meet elective graduation requirements.**

The West Between the Wars

Semester: 1

Credit: ½

Grade Placement: 10-12

In this Social Studies elective course we will examine the time period 1919 to 1939, the fragile peace between the wars, the so-called "Age of Anxiety and Depression", in more close detail. Approached as an historical survey, students will be exposed to the political, economic, religious, cultural, technological and artistic forces that shaped this period in history. The instructor will employ a variety of methods to instruct this course, including class discussions, audio-visually, assessments and projects.

Contemporary Issues

Semester: 1

Credit: ½

Grade Placement: 10-12

Students have an opportunity to examine challenges facing the United States and the global community. Students will analyze current social issues such as political and economic institutions, education, diversity, health care, poverty, the family, international terrorism, and economic disputes. Students will engage in discussion and debate, and an emphasis will be placed on research to promote the

formulation of informed opinions. The goal of this course is for students to develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in both oral and written formats.

Psychology

Semester: 1

Credit: ½

Grade Placement: 11, 12

Psychology is defined as the study of behavior and thought processes. Students differentiate and discuss the theories of learning, motivation, personality, and psychological disorders. Leading figures in psychological research and philosophy are examined. In addition, students recognize factors in a healthy self-image and social relationships with others. They research current events and complete a major project.

Sociology

Semesters: 1

Credit: ½

Grade Placement: 11, 12

Sociology is the study of society. The course focuses on the behavior of groups in American society. Some of the topics included in the course are culture, conformity and deviance, the family, adolescence, minorities and discrimination, poverty, crime, and other problems of society. Out-of-class reading and a current-events folder are required.

World Geography

Semester: 2

Credit: ½ each semester

Grade placement: 10-12

World Geography focuses on the five themes of geography: location, place, human/environment interaction, movement, and region. Students are introduced to physical and human geography. A special emphasis is placed on the use of current events resources including audio-visual materials, Internet use, and publications. This course requires outside research, a current-events journal, and at least one project each semester.

FOREIGN LANGUAGE

***Two consecutive years of foreign language is required for graduation (college preparatory and honors diplomas). These first and second year courses meet graduation requirements.**

Spanish I

Semesters: 2

Credit: 1

Grade Placement: 9-12

“Teaching Proficiency through Reading and Storytelling” (TPRS) is the method used in this course to help students acquire Spanish. The use of physical action and stories aids in the acquisition of vocabulary which leads to reading, writing, and speaking proficiency. In addition, students are introduced to the Hispanic culture.

Spanish II

Semesters: 2

Credit: 1

Grade Placement: 9-12

While continuing the teaching methods of Spanish I, students expand their knowledge of Spanish and increase their fluency in speaking and writing. Students begin to read independently and fulfill a reading contract during second semester.

Accelerated Spanish II

Semesters: 2

Credit: 1

Grade Placement: 9-12

Prerequisite: Completion of Spanish I with a "B" or department approval.

Accelerated Spanish II is designed for students who have proven themselves capable and willing to pursue language acquisition on a more involved level. Students begin reading independently during first semester and read more advanced novels than students read in Spanish II classes. Students also develop a greater awareness of the mechanics of the language.

French I

Semesters: 2

Credit: 1

Grade Placement: 9-12

TPRS (Teaching Proficiency through Reading and Storytelling) is the main method used to assist students in rapidly acquiring comprehension which leads to speaking, reading and writing in French. The use of physical activity and story-telling is a less-stressful learning style and aids in longer retention. In addition, students are introduced to French culture in different parts of the world.

French II

Semesters: 2

Credit: 1

Grade Placement: 9-12

TPRS continues to be the primary teaching method as students develop the skills of reading and listening comprehension. Emphasis on reading and writing in French, as well as speaking in French, is extended to a greater degree. French culture is woven into the course study.

FOREIGN LANGUAGE ELECTIVE COURSES

***Students are encouraged to take 4 consecutive years of the same foreign language. These courses fulfill elective graduation requirements.**

Spanish III

Semesters: 2

Credit: 1

Grade Placement: 10-12

Prerequisite: Satisfactory Completion of Spanish II.

Spanish III is designed for students who would like to continue the study of Spanish using the TPRS method from Level I and II Spanish, and other comprehensible input methods. Students learn to edit the written and spoken language at a higher level. Outside reading is required during the course. This class **does not** pursue the grammar curriculum needed for students wishing to enroll in AP Spanish.

Spanish IV

Semesters: 2

Credit: 1

Grade Placement: 11-12

Prerequisite: Satisfactory completion of Spanish III and instructor's permission.

This course is designed for students who have successfully completed Accelerated Spanish III but wish to take another year of Spanish before taking AP Spanish. The emphasis will be on increasing knowledge, fluency, correctness (in both vocabulary and grammar usage), and fluid use of the Spanish language. A variety of texts and types of assignments will be used. In addition, students will be expected to self assess and pursue improvement of their skills outside of class.

Advanced Placement Spanish

Semesters: 2

Credit: 1

Grade Placement: 11, 12

Prerequisite: Completion of Spanish III with a "B" or better or instructor's permission.

This college-level course puts emphasis on writing, reading (including authentic literature), listening, and improving conversational skills. The skills tested on the AP exam are stressed. Students are required to take the College Board AP examination in order to receive the Advanced Placement designation on their transcript.

French III

Semesters: 2

Credit: 1

Grade Placement: 10-12

Prerequisite: "B" or better in French II or instructor's approval.

Third-year French students fine-tune their reading, writing, and speaking skills by developing the mechanics and structure of the French language. Students are immersed in reading, writing, and conversing in French as well as conducting research and independent study. A variety of materials are used including novels, films, and some college-level curriculum.

French IV

Semesters: 2

Credit: 1

Grade Placement: 11, 12

Prerequisite: Completion of French III with a "B" or better or instructor's permission.

Level IV students must be prepared for more advanced independent study, reading, writing, and a strong emphasis on oral proficiency.

FINE ARTS COURSES

***These courses meet the fine arts graduation requirement.**

Band **A fee is required for this course**

Semesters: 2 Credit: 1 Grade Placement: 9–12

Prerequisite: Previous band instruction or instructor's permission.

This class is designed to give students the opportunity to use their developing music skills in a group environment. Emphasis is placed on group technique as well as individual improvement and execution. The band performs for school activities and athletics events as well as for local and out-of-town band contests. All students must be a part of both marching band and concert band. Any exceptions must be approved by the band director.

Dance **A fee is required for this course**

Semesters: 2 Credit: 1 Grade Placement: 9-12

This beginner course is an introduction to the fundamentals of Ballet, Modern, Tap and Jazz. This course will culminate in a spring performance at Arts a la Carte. Dance classes require the student to be dressed appropriately for dance and participation is essential to the fulfillment and completion of this course. The course will be facilitated by Mrs. Wortman and techniques will be taught by guest instructors and video instruction. **This course will have a fee requirement and a class uniform including proper shoes.**

Concert Chorus **A fee is required for this course**

Semesters: 2 Credit: 1 Grade Placement: 9-12

Prerequisite: By audition only. (Grades 9-10 by instructor invitation only).

Concert Chorus is for selected students who would like to achieve an advanced level of choral singing. The repertoire includes music from a variety of periods and languages. The ability to sight sing is required. Participation in concert performances is required.

Visual Art I **A fee is required for this course**

Semesters: 2 Credit: 1 Grade Placement: 9-12

Introduction to Visual Art I is a prerequisite for all other art courses. Students coordinate the elements and principles of art into compositions. Areas explored are painting, drawing, pottery, graphic and fiber arts, and art history. **This class requires students to purchase a list of art supplies.**

Theatre Arts

Semesters: 2 Credit: 1 Grade Placement: 9-12

Taking a Theatre class is a great opportunity for students to explore their inner voice and develop into young adults who are able to express themselves in a competent and confident way. It is an exciting class, not only because it is entertaining, but also because it is based on human experience. Students enroll in Theatre for various reasons. Some hope to prepare for a career in the theatre and/or learn more about themselves, their talents, and their abilities to work together with their peers while others merely take the course to meet their Fine Arts requirement. Whatever the reason, the study of acting is a unique process that helps students become comfortable, assertive, creative, problem solving individuals.

Introduction to Piano **Student must supply keyboard**

Semesters: 2

Credit: 1

Grade Placement: 9-12

This year-long course is tailored to students that have no previous piano experience. Students will learn, create, and problem solve at a beginner level on piano. Students will be taught different styles, techniques, and aspects of piano that they can use to further their ability on the piano.

The goal of this course is for students to have a basic understanding of piano and music that they can use their entire lives.

Specific Course Goals:

- Learn the Basics of reading music and rhythm
- Identify parts of the piano
- Proper Hand position for Piano
- Note reading and positions on Piano
- Scales on the Piano
- Identify and play basic chord structures on the Piano
- Begin to listen by ear and play what you hear on the piano.
- Participate in performances to assess the student's knowledge of the particular lesson.

Introduction to Guitar

Student must supply guitar

Semesters: 2

Credit: 1

Grade Placement: 9-12

This full-year course is tailored to students that have no previous guitar experience. Students will learn, create, and problem solve at a beginner level on guitar. Students will be taught different styles, techniques, and aspects of guitar that they can use to further their ability on the guitar.

The goal of this course is for students to have a basic understanding of guitar and music that they can use their entire lives.

Specific Course Goals:

- Learn the Basics of reading music and rhythm
- Identify parts of the guitar
- Proper Hand position for Guitar
- Guitar Strumming Techniques
- To learn basic notes and chords on Guitar
- To learn basic strumming and fingering techniques
- Participate in performances to assess the student's knowledge of the particular lesson.

FINE ART ELECTIVE COURSES

***These courses meet elective graduation requirements.**

Pottery and Sculpture

A fee is required for this course.

Semesters: 2

Credit: 1

Grade Placement: 10-12

Prerequisite: Satisfactory completion of Introduction to Visual Art.

Students focus on developing skills in sculpture, ceramics, and 3D design. Students explore and practice many techniques, materials, and subject matter in their project assignments. Students also expand their understanding of art history, art criticism, and aesthetics.

Advanced Art

Semesters: 2

Credit: 1

Grade Placement: 11,12

Prerequisite: Satisfactory completion of two previous HS art courses and instructor's permission.

This is an advanced course designed for serious students who are not interested in taking Advanced Placement Studio Art. Areas of special emphasis are advanced projects, preparation of a college portfolio, and competitions. Drawing, painting, pottery, printmaking, and sculpture are included in this study. This class requires students to purchase a list of art supplies.

Advanced Placement Studio Art

Semesters: 2

Credit: 1

Grade Placement: 10 - 12

Prerequisite: Art I and instructor's permission.

This is a course for highly motivated, responsible, and talented students who are willing to work at a high rate of speed, both in and out of the classroom. Other facets of this course are ongoing critical analyses and a journal illustrating the concentration, breadth, and quality of the student's work. For Advanced Placement designation on the student's transcript, the student will present a portfolio of work which follows the College Board guidelines for evaluation by AP graders. **This class requires students to purchase a list of art supplies.**

Graphic Design

Semester: 2

Credit: 1

Grade Placement 10-12

Students in this elective course learn the basic principles of Graphic Design using Adobe Photoshop, In-Design, and Illustrator programs. Students design and create such products as tee-shirts, advertisements posters, logos, and CD and DVD covers. This course teaches students how to communicate through their work while incorporating their own personality and style in their design. Students continue to develop and refine their design skills in the second semester. Taking a more in-depth look into design programs studied in the first semester, students are introduced to a wide range of projects such as designing and creating a digital self-portrait collage, a product package design, a calendar, a tri-fold brochure, and a comic book.

Photographic Foundations

Semesters: 2

Credit: 1

Grade Placement: 10-12

This course is designed to introduce students to basic techniques in color and black and white photography. Areas covered are the camera, the lens, film, and exposure. Students become acquainted with application of photography as a means of artistic expression and photojournalism. Students will enter work in gallery exhibits and local as well as national competitions. **A fee is required for this course.**

PHYSICAL EDUCATION/WELLNESS

Wellness-Boys/Girls

Semesters: 1

Credit: 1/2

Grade Placement: 9-12

The wellness class is designed to help students appreciate the value of physical, mental, social, and spiritual health, while helping them acquire the knowledge needed to achieve and maintain a state of balanced well-being. This class emphasizes that health is largely a matter of each person's responsibility and that choices made about one's own lifestyle during the teenage years have important long-term effects on health and happiness.

Personal Fitness

Semesters: 1

Credit: 1/2

Grade Placement: 9-12

Personal Fitness is designed to help students set and achieve their own personal fitness goals. Each student develops a physical fitness plan, which enhances his/her knowledge of nutrition, cardiovascular endurance, strength training and weightlifting. Students are involved in daily fitness activities designed to meet and achieve their fitness goals. Students who are part of an athletic team will have their fitness plans designed around the physical requirements of that sport (in-season or out-of-season).

Introduction to Yoga

Semesters: 1

Credit: 1/2

Grade Placement: 9-12

This course is designed to introduce students to the basic postures, breathing techniques, and relaxation methods of yoga. Students will learn to experience the benefits of stretching, moving, and breathing as they relieve built up stress, learn to relax, and strengthen core muscle groups.

BUSINESS/CAREERS ELECTIVE COURSES

Introduction to Business

Semester: 1

Credit: ½

Grade Placement: 10-12

In this course the students are exposed to various aspects of the business world. Topics for exposure/discussion are: marketing, management, economics, accounting, finance, business law, and business ethics. Students also explore various careers in business.

Introduction to Entrepreneurship

Semester: 1

Credit: ½

Grade Placement: 10-12

Prerequisite: Introduction to Business.

In this course, students will use an original idea to create a workable business model. This course encompasses the following areas to create a new venture: innovation, creativity, accounting, finance, marketing, operations, management, law, support, and communication.

COMPUTER SCIENCE ELECTIVE COURSES

Advanced Placement Computer Science Principles

Semesters: 2

Credit: 1

Grade Placement: 10-12

Prerequisite: Satisfactory completion of Algebra I with at least a B.

AP Computer Science Principles introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using simulations to explore questions that interest them. Rather than teaching a particular programming language or tool, the course focuses on using technology and programming as a means to solve computational problems and create exciting and personally relevant artifacts. Students design and implement innovative solutions using an iterative process similar to what artists, writers, computer scientists, and engineers to bring ideas to life (from The College Board).

Computer Applications

Semester: 1

Credit: ½

Grade Placement: 10-12

This course covers usage of Microsoft Office. Letters, reports, and tables are among the variety of documentation which students create using Microsoft Word. Excel is used to create various types of spreadsheets that will include formula work and graphs. In addition, students use PowerPoint to create slide presentations where public speaking skills are enhanced by giving presentations to classmates.

Video Production

Semester: 1

Credit: ½

Grade Placement: 10- 12

The Video Production course is for students who have an interest in the field of video production. This course will include all aspects of creating a video: equipment, lighting, planning, interviewing, editing, etc. Students will produce several short films, which will span a variety of genres (shots & angles, inanimate object, still shot, music, instructional, lip dub, free choice, etc.). Students may also be required to produce promotional videos of/for various school events/functions. Students will be required to plan projects, write scripts, create storyboards, direct, shoot, and edit these films independently and in a group. Students will develop skills in time management and leadership skills while working on individual and group projects. Students are encouraged, but not required, to own or have access to video and still cameras. The school will provide students with the technology (editing software and computers) to produce student videos.

Web Design

Semester: 1

Credit: ½

Grade Placement: 10-12

Students use Adobe Dreamweaver software to design web pages. Among the topics included are setting up a new site; adding pages; manipulation of text; setting and editing a color; incorporating and editing images; working with templates, style sheets, animation, and behaviors; and creating tables, forms, layers, image maps, absolute and relative links, and navigation bars.