

*Terre Hill Mennonite
High School*



**Course
Descriptions
Booklet**

July 2020 Edition

Bible

Old Testament Grade Level - 9

1.0 credit

The goals of this course are to think through the Old Testament in chronological narrative form, to construct maps of Old Testament periods and places, and to outline Old Testament covenants. Students should develop a deeper understanding of the plan of salvation, develop good Bible study skills for personal study of God's Word, see the Old Testament as a foundation for Christianity and grow in applying Old Testament principles in everyday life.

New Testament Grade Level - 10

1.0 credit

In this class the New Testament will be studied as the revelation of the Old Testament, the Old and New covenants will be compared and contrasted, and it will be observed how Christ and the early church bridged the gap between the Jews and Gentiles. Students should be able to think through the New Testament in chronological narrative form, give distinguishing features of New Testament books, know the location of specific content in the New Testament, and construct maps of Paul's missionary journeys. The goal of this study is to gain a deeper understanding of how to live the teachings of the New Testament and to grow in relationship with the Lord Jesus Christ.

Bible Doctrine Grade Level - 11

1.0 credit

The goal of this class is to strengthen within the life of each student faith and convictions that are founded upon the doctrinal truths of Scripture. God's Word is recognized to be the absolute basis of all life and truth, and as the only foundation upon which we can build our faith and practice. The outline of the class is based on the 20 articles listed in the 1963 Mennonite Confession of Faith and includes such topics as theology, Bibliology, Christology, etc. Biblical doctrine will be related to daily living.

Practical Christian Living Grade Level - 12

1.0 credit

This class is focused on living out our daily Christian lives according to God's Word. Focus is on issues related to students' lives now and in the near future. The units of study are: methods of Bible study, self discovery (spiritual gifts, personalities, interests, and vocation), dating and marriage, finances, and God's will. There are frequent discussions on current Christian issues.

Bible Study Methods/Teaching Grade Level - 10, 11, 12 0.5 credit

Students will learn how to study the Bible for themselves. They will explore various Bible study methods and techniques that will help them understand

scripture. Students will learn how to use and evaluate sources and translations. Students will also explore and practice the art of preparing and presenting a Bible lesson or devotional. The aim of this class is to prepare pupils to be lifelong students of the Word who do not need to be ashamed of their work (2 Tim. 2:15) and to help them learn how to communicate the teachings of scripture in a meaningful, relevant way.

Missions

Grade Level - 11, 12

0.5 credit

In this class we will expand our vision of the spiritual needs of the world. We will evaluate and be challenged in our response to Christ’s commission to go and make disciples of all nations. There will be first hand opportunities to interact with those who have had experience serving in mission settings. Through practical projects and assignments we will build a mission mentality for service.

Business Education

Accounting I

Grade Level - 11, 12

1.0 credit

This course is learning about business transactions, record keeping, and reporting. Students learn the principles of accounting, how to record and report business transactions for sole proprietorships, partnerships and corporations. Students do simulations of several businesses using “actual” documents to record transactions and create reports. Students also do a significant amount of their accounting using computers.

Accounting II

Grade Level - 11, 12

1.0 credit

Accounting 2 gives more in-depth experience with the concepts learned in accounting I.

Computer

High School Prep

Grade Level - 9

0.5 credit

High School Prep is designed to instruct new students on how to navigate the complex academic, social, and spiritual challenges that are faced in high school. The main objective of the course is to equip students with the necessary skills to become independent thinkers and self-learners. Topics such as research, writing, note-taking, organization, planning, test taking, study techniques, critical thinking, and reading will be covered.

Microsoft Office I: Word Processing & Basic Spreadsheets

Grade Level – 9

0.5 credit

Students will begin an in-depth look into the functions and features that make word processing and graphic design easy with Microsoft Word. Students will have opportunities to create many different types of documents such as: reports, newsletters, brochures, and flyers. There will also be instruction on the ever changing field of technology and IT. Instruction will be designed to be applied both in the workplace and at home.

Microsoft Office II: Advanced Spreadsheets, PowerPoint, & Access

Grade Level – 10, 11, 12

0.5 credit

This course is designed to instruct students on the use of the Microsoft Office Suite in the workplace. The first section will focus on using spreadsheets to find solutions to complex problems & creating professional attractive spreadsheets. The PowerPoint section will focus on creating attractive slides that capture the observer's attention through to-the-point and impactful presentations. If there is time in this class, students will be able to collect, organize, store and retrieve data through the powerful tools built into Microsoft Access.

Access

Grade Level - 11, 12

0.5 credit

This class is to instruct students how to use the Access program to collect data and then use the data to provide meaningful information. They will look at needs and then develop systems to provide the needed information. This includes evaluating the need, and design and development of solutions. There is instruction as needed, but most of the work is in projects to provide solutions to increasingly more complex situations. There may also be some group learning in cooperation in finding solutions.

Computer Aided Design (CAD) Grade Level - 10, 11, 12

0.5 credit

Drafting is a course with two objectives. First: learning to use a computer sided design program to draw a variety of objects. It counts toward the required computer credit. Second: a significant part of the class is related to drafting design. Learning how to design, draw and dimension drawings for a variety of different things from desks to houses.

Computer Service & Repair I

Grade Level – 10 - 12

0.5 credit

This is an advanced course designed to start students on the path to being a successful computer repair professional. This course will include in-depth studies on: Operating Systems, Motherboards, CPU, Power Supplies, Memory, Input Devices, Video & Audio Systems, Magnetic & Solid State Devices, Optical

Storage Technology, and Printers. This class is a prerequisite for Computer Service & Repair 2.

Computer Service & Repair II Grade Level – 10 - 12 0.5 credit

This course is a sequel to Computer Service & Repair 1 (see course description). In this class we will examine the following areas of study: Laptops & Mobile Devices, Modems & Transceivers, Physical & Digital Security, PC Troubleshooting, Introduction to Networking, Network Administration, Wide Area Networks (WAN), Small-Office/Home-Office (SOHO) Networking, Customer Support, and Communication & Professionalism. After the successful completion of this course, students will be ready to take and pass the CompTIA A+ Certification Exam, which is the leading certification employers look for when hiring IT technicians.

Foreign Language

Spanish IA Grade Level - 10, 11, 12 0.5 credit

In this class, we learn how to speak and write basic Spanish. The class focuses on learning Spanish vocabulary and on learning some basic grammatical concepts. The goal of the class is to provide a foundation for further study of Spanish.

Spanish IB Grade Level - 10, 11, 12 0.5 credit

Prerequisite: Spanish 1B

This class is a continuation of Spanish 1A.

Spanish II Grade Level - 11, 12 1.0 credit

Prerequisite - Spanish 1A & 1B

A Beka video is used for this course.

History

World History Grade Level - 9 1.0 credit

This class focuses on the development of Western civilization in Europe from the ancient world. We then look at how Europeans spread their culture around the world, and how other civilizations interacted with them. The goal of the class is to understand how our own culture has developed, and to understand how it influences events around the world.

United States History Grade Level - 10**1.0 credit**

In this class, we focus on the history of the United States of America from its colonial beginnings to the current time. The goal of the class is to understand how our country has developed, to look at some of its strengths and its weaknesses, and to help us put our current time into a broader perspective.

Church History**Grade Level - 11****1.0 credit**

In the first part of this class, we look at how the Church began and developed during the Roman Empire and the Middle Ages. Then we focus on the Reformation and groups which arose during that time period and who came to America. After that, the focus is on general American religious history. This is to establish a framework in which to understand our own role as Anabaptists. In the second semester, we focus on the beginning of Anabaptism during the Reformation, the spread of Anabaptism to America, and the story of several Anabaptist groups in America: the Mennonites, the Amish, and the Brethren. The goal of the class is to gain an appreciation for Anabaptism by examining our history, and to gain an understanding of Anabaptism's interaction with other religious traditions.

Industrial/Domestic Courses

Wood Shop I**Grade Level - 9****0.50 credit**

In this class students develop and improve knowledge and skills of basic wood working. They learn and practice safety in the shop and develop Christian character traits such as orderliness, diligence, thoroughness, and patience.

Adv Wood Shop**Grade Level - 10, 11, 12****0.25+ credit**

Students develop and improve knowledge and skills of advanced processes of woodworking.

Home Economics I**Grade Level - 9****0.5 credit**

The goals of this class are to gain skill in operating a sewing machine and constructing a garment, and to increase skill in cooking and baking and learn to make a variety of food. The first quarter will be learning to use the sewing machine and spending most of the class time constructing a simple but complete outfit. The second quarter will be spent working in the kitchen.

Adv Home Economics**Grade Level - 10, 11, 12****0.5 credit**

This class varies due to class size and interest. Approximately half of the classes are focused on kitchen skills. The main areas are breads and ethnic

spelling lists are practical words and many of them are words which are frequently misspelled.

English II

Grade Level - 10

1.0 credit

English 2 includes grammar, composition, literature, vocabulary, and spelling. Because the study of grammar is foundational to mastering the English language, grammar is given a place of major importance throughout English 2. The variety of composition assignments allows students the opportunity to practice applying the grammar concepts they learn. Students complete a formal literary research project. The study of literature gains increasing importance in English 2, as students are exposed to significant works from ancient literature as well as many modern classics. The goal is for students to comprehend and appreciate the basic elements of a work of literature through author biographical material, analysis of the literary work, a knowledge of literary terms, and literary compositions. Knowing and using a good selection of choice vocabulary words definitely gives high school students an advantage, whether it is in a job interview, on a college entrance exam, or simply in meeting today's emphasis on expression and communication. The ability to spell well is an equally important educational asset. In addition to the spelling and vocabulary lists, English 2 students learn the meanings of word parts (prefixes, roots, suffixes) that will help them determine the meanings of thousands of other words.

American Literature A

0.5 credit

Prerequisite: English 2

Grade Level - 11, 12

American Literature A is intended for the college-bound student. Students should have completed English 2 before taking American literature. The focus of the course shifts from grammar to literature and from descriptive to argumentative writing. The literature segment provides foundational instruction in American literature by presenting great works of early American poets, short story authors, essayists, and novelists with an emphasis on the novel *The Scarlet Letter*. The goal is for the students to comprehend and appreciate the basic elements of a work of literature. The course includes a variety of composition assignments that develop the students' ability to think and analyze literary works and develop the maturity of their writing style. They learn to organize their thoughts and present them in a concise, readable, understandable, and convincing manner. The goal of the grammar review in this course is editing and improving the students' writing.

American Literature B

0.5 credit

Prerequisite: English 2

Grade Level - 11, 12

American Literature B is intended for the college-bound student. Students should have completed English 2 before taking American literature. The focus of the course shifts from grammar to literature and from descriptive to argumentative writing. The literature segment provides foundational instruction in American literature by presenting great works of the nineteenth century in chronological format and then leads into twentieth century American literature. The goal is for the students to comprehend and appreciate the basic elements of a work of literature. The course includes a variety of composition assignments that develop the students' ability to think and analyze literary works and develop the maturity of their writing style. They learn to organize their thoughts and present them in a concise, readable, understandable, and convincing manner. The goal of the grammar review in this course is editing and improving the students' writing. American Literature A is NOT a prerequisite to this class.

British Literature A

each 0.5 credit

Prerequisite: English 2

Grade Level - 11, 12

British Literature A is intended for the college-bound student. Students should have completed English 2 before taking British Literature. Literature and composition are given top priority in this course. British literature presents great works of British writers from the Anglo-Saxon period through the Age of the Puritans, with special emphasis on Macbeth, and Pilgrim's Progress. The goal is for the students to comprehend and appreciate the basic elements of a work of literature. The course includes a variety of composition assignments that develop the students' ability to think and analyze literary works and develop the maturity of their writing style. They learn to organize their thoughts and present them in a concise, readable, understandable, and convincing manner. The goal of the grammar review in this course is editing and improving the students' writing. Students may take either the first or second semester for a half credit or the whole year for one credit.

British Literature B

each 0.5 credit

Prerequisite: English 2

Grade Level - 11, 12

British Literature B is intended for the college-bound student. Students should have completed English 2 before taking British Literature. Literature and composition are given top priority in this course. British literature presents great works of British writers from the Restoration and the eighteenth century through the twentieth century. The goal is for the students to comprehend and appreciate the basic elements of a work of literature. The course includes a variety of composition assignments that develop the students' ability to think

proofreading documents. The goal of this course is to help students communicate more effectively in business.

Creative Writing **Grade Level - 10, 11, 12** **0.5 credit**

Creative Writing allows students to pursue the enjoyment of writing. Students begin with writing short stories from their own life experiences. As they master the story form, they expand their skills to include fiction, article, and poetry writing. Students learn to critique, revise and edit both their own and other students' stories and articles. The goal of the course is to help students enjoy story and poetry writing and gain confidence in submitting manuscripts for publication.

Christian Authors **Grade Level - 10, 11, 12** **0.5 credit**

Christian Authors reviews basic story elements and writing techniques through stories and poems written by various Christian authors. Most of these authors are from the nineteenth and twentieth centuries. Students also choose a specific Christian author for a more in-depth study. The focus of this part of the course is to learn to analyze an author's writings to determine his motivating theme or common characteristics of his writings. The goal of this course is to help students become more discriminating readers.

<h2>Mathematics</h2>

Pre-Algebra **Grade Level - 9** **1.0 credit**

The goal of this class is to help the student master the mathematical skills necessary to succeed in Algebra 1, other classes where logical skills are needed, and life outside of school.

Algebra I **Grade Level - 9, 10** **1.0 credit**

Algebra 1 is the first course in the high school algebra sequence and is the beginning of the abstract study of arithmetic operations. The intent of the course is to give the student a good foundation in the basic fundamentals of algebra. It is required for all students who are determined to be adequately prepared as per their scores on an algebra prognosis test, eighth grade achievement test ranking, and/or eighth grade math teacher recommendation.

Topics emphasized in this course are the properties of the real number system, statistical graphs, graphing with the Cartesian coordinate system, simplification and evaluation of algebraic expressions, equations, inequalities, linear functions, polynomials, exponents, factoring, and problem-solving. A calculator is required with a scientific calculator being preferred.

Geometry**Grade Level - 10, 11, 12****1.0 credit****Prerequisite - Algebra I**

Geometry emphasizes the development of both inductive and deductive reasoning within the context of Euclidian geometry. It is required for all students who have taken and passed Algebra 1 in either eighth or ninth grade and is recommended for all other students who have completed Algebra 1. Topics taught include the properties of lines, polygons, and circles, constructions, coordinate geometry, congruence, including some deductive proofs using congruent triangles, similarity, area, volume, and triangle trigonometry. Additional topics taught as time permits may include logic, deductive proofs, and transformations. A calculator, ruler with both English and metric units, protractor, and drawing compass are required.

Algebra II**Grade Level - 10, 11, 12****1.0 credit****Prerequisite - Algebra I & Geometry**

Algebra 2 is suggested for the academic student who has completed Algebra 1 and Geometry with at least an average grade of "C" or who has received a teacher recommendation. Topics emphasized in this course include the study of equations and functions (including linear, absolute value, quadratic, polynomial, and exponential), linear, absolute value, and quadratic inequalities, systems of equations and inequalities, polynomials, exponents, irrational and complex numbers, conic sections, factoring, algebraic fractions, combinatorics, probability, statistical analysis, and using math models to solve real life problems. Additional topics taught as time permits may include matrices and a review of triangle trigonometry. A scientific calculator is required. Students will gain some experience in using the TI-83+ graphing calculator.

Pre-Calculus**Grade Level - 11, 12****1.0 credit****Prerequisite: Algebra II**

Pre-Calculus is intended for the college-bound student or the student with above-average mathematical skills. A student enrolling in Pre-Calculus must have received an "A" or "B" in Algebra 2 or have a teacher recommendation. Pre-Calculus is largely an Algebra 3/Trigonometry course. Topics taught in this course include a review of the types of equations, inequalities, systems, and functions learned in Algebra 2, logarithms, including equations and functions, analytical geometry, trigonometry, including its functions, properties, and applications, and some pre-calculus topics as time permits, which may include polar coordinates and equations, sequences and series, and limits. A scientific calculator is required. Students will extend their knowledge and use of the TI-83+ graphing calculator.

Calculus**Grade Level - 12****1.0 credit****Prerequisite: Pre-Calculus**

This course is intended for college-bound students with interests in math and/or science or those with above-average mathematical ability. It is NOT intended to prepare students for the AP Calculus Exam, although students who do well would likely be prepared for it. Students must have received an “A” or “B” in Pre-Calculus before enrolling in Calculus and must be self-motivated.

The topics taught in Calculus include a review and extension of some topics taught in Pre-Calculus, including trigonometry and analytical geometry, limits, derivation, integration, and their applications.

The textbook used is *Calculus* by Saxon and Wang and the course is self-study with a faculty advisor who will answer questions, grade exercises, and administer and grade the exams. Students are required to satisfactorily complete lessons 1-80 and the appropriate exams to receive one credit or lessons 1-40 and the appropriate exams for one-half credit. A scientific or graphing (recommended) calculator is required.

Consumer Math**Grade Level - 11, 12****1.0 credit**

Consumer Math focuses on mastering basic math fundamentals. The class will be taught from a consumer’s perspective and will result in students learning consumer terms practical to everyday life. Students will study subjects such as bank accounts, loans, mortgages, automobile ownership, insurance, purchasing and taxes. Projects will be complete on insurance, home ownership, banking, and taxes.

Music

Music Theory**Grade Level - 9****0.5 credit**

This course focuses on music fundamentals, symbols and vocabulary. Music is a language and this class focuses on learning how to read the language, not necessarily speaking (singing) it. By the end of the course, students will be able to pick up an unfamiliar piece of music and read it. Students will learn how to lead a singing audience, how to understand the piano keyboard, and how to sing with more confidence and ease.

Large Chorus**Grade Level - 9, 10, 11, 12****0.5 credit**

Participation in large chorus is required of all students. The goals for large chorus are to help students improve their singing skills, learn how to work together, and to present two Christmas and two Spring concerts by memory, consisting of sacred a capella music that honors and blesses the Lord. Concerts may also include student narration and/or reader’s theater style drama.

Students' grades will largely be determined by their participation and attitude during weekly rehearsals and their presence at and performance behavior during concerts. Students may also be asked to write the words of songs from memory.

Gospel Team

Grade Level - 11, 12

1.0 credit

The Gospel Team is an elective class for eleventh and twelfth grade students. Gospel Team is intended to be a growing experience musically, spiritually and socially for each student. The goals of the Gospel Team relate to these three areas of experience: 1) Students will improve their vocal skills (both individually and as a group) and general knowledge pertaining to choral music. 2) Students will be drawn closer to God in their spiritual lives, be an encouragement to one another, understand better how to praise God together, and be an instrument which God can use to draw others' hearts to Himself. 3) Students will learn to accept each other and relate well together despite their differing personalities, gifts, strengths, and weaknesses.

The Gospel Team gives programs of sacred a capella music and testimony in local churches, prisons and juvenile centers, rehabilitation programs, and rest homes during the months of January through May as planned by the director. A weekend tour consisting of four or five programs is also planned each year. It also participates in both the Christmas and Spring concerts.

Students are required to attend all programs, participate in a joint choral activity with Faith High School (if planned), give testimonies, attend a fall social and winter retreat, listen to sacred choral music, and memorize their songs and music vocabulary and symbols. Students may be required to listen to and practice their music outside of the normal class periods. Students' grades will be determined by their participation in daily rehearsals, their attendance and performance in programs, and quizzes.

Music Elective

Grade Level – 10, 11, 12

1.0 credit

This course is designed to help develop the tools necessary to read and sing music proficiently. Proper vocal technique will be a large component of this class. The collective enjoyment of the heart and soul of music will permeate our singing and listening.

Physical Education and Health

Girls' PE

Grade Level - 9, 10

0.5 credit

In this class grading is based on effort and attitude, then skill, in four main sports: soccer, basketball, volleyball, and softball, as well as some track and field activities. One game will be played each quarter with another school.

Girls' Fitness Class Grade Level - 11, 12 0.25 credit

In this physical education class grading is largely dependant on participation in various sports activities, aerobics, and setting personal fitness goals. This class is designed to broaden horizons in both fitness awareness and sports activities.

Girls' Volleyball Grade Level - 11, 12 0.25 credit

This is a fairly intense physical education class focusing on volleyball where students learn rules, referee signals, fundamentals, techniques and strategies. Students will be graded heavily on effort and performance. Students will be required to participate in several games with other Mennonite schools.

Girls' Basketball Grade Level - 11, 12 0.25 credit

This fairly intense physical education class focuses on basketball where students learn rules, referee signals, fundamentals, techniques and strategies. Students will be graded heavily on effort and performance. Students will be required to participate in several games with other Mennonite schools.

Guys' PE Grade Level - 9, 10 0.50 credit

This class will spend time on developing physical fitness, learning the rules of a variety of sports, practicing the basic fundamentals of the sports, and competing with other students. The sports that this class will focus on the most are soccer, basketball, volleyball, and softball. Each quarter a different sport will be played with the exception of fourth quarter. A test on the rules will be taken each quarter. One game will be played each quarter with another school.

Guys' Fitness Class Grade Level - 11, 12 0.25 credit

This class will focus primarily on aerobic activity and learning different forms of recreation. There will be no rule tests; however, students should expect to be tested on various physical fitness topics. Each class period there will be some time spent in various forms of recreation (wiffle ball, floor hockey, flag football, soccer, basketball, volleyball, softball, indoor soccer, track events, badminton, table tennis, team handball, etc.). Students in this class will not compete with other schools.

Guys' Basketball Grade Level - 11, 12 0.25 credit

This class will be fairly intense and focus primarily on the game of basketball. Students will learn the rules, referee signals, fundamentals, various techniques, and strategies. In this class teamwork will be emphasized, taught, and required. Students will be required to participate in games with other Mennonite schools. Students can plan on playing in four games plus a tournament.

Guys' Volleyball **Grade Level - 11, 12** **0.25 credit**

This class will be fairly intense and focus primarily on the game of volleyball. Students will learn the rules, referee signals, fundamentals, various techniques, and strategies. In this class teamwork will be emphasized, taught, and required. Students will be graded heavily on effort and performance. Students will be required to participate in several games with other Mennonite schools.

Health **Grade Level - 12** **0.5 credit**

This class is focused on our health: physically, mentally, emotionally, socially, and even spiritually. The goal is to learn more about ourselves to enable us to be followers of Christ.

<h2 style="margin: 0;">Science</h2>
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Earth Science **Grade Level - 9** **0.5 credit**

This course provides an introduction to five branches of science including meteorology, oceanography, geology, chemistry and physics. All of the subjects are approached from the creationist perspective, giving God the glory for the world that He has made. Included in the unit on geology is an extended look at the errors of evolution compared to Biblical Creationism. With the section on meteorology we include hurricane tracking along with the study of the atmosphere. Chemistry includes a very basic introduction to atomic and molecular structure and the forces involved. The unit on physics briefly discusses motion, sound, light, magnetism, and electricity. Limited laboratory experiences are included.

Biology **Grade Level - 10** **1.0 credit**

This course covers the subjects of botany, zoology, human anatomy, and cellular and molecular design and function. All subjects are approached from the aspect of God as the creator and sustainer of all living things. The wrong methods and philosophy of evolution are examined and critiqued while the Genesis account of creation is affirmed and established. The variety, beauty, and complexity of God's design are considered in all the categories studied. Laboratory exercises include dissecting animal and plant specimens, learning to use the microscope, and the careful observation of living things and their environment.

Chemistry **Grade Level - 11, 12** **1.0 credit**

This is a branch of science that deals with the composition, structure, and properties of matter, and the changes that matter undergoes. Elements,

compounds and the chemical bonds involved will be studied in detail, as well as the identity and interactions of acids, bases, and salts. Identifying different chemical reactions and balancing chemical equations along with learning the chemical formulas and symbols is an important part of the course. Time is given to experiencing hands-on observation of chemical properties and changes in the laboratory. A proficient ability in algebraic manipulation is helpful for this course.

Advanced Biology **Grade Level - 11, 12** **1.0 credit**

This course is designed to introduce the student to the structure and function of the human body. Students learn anatomic terminology and the medical regions and areas of the body and the functions that sustain life. Cell design and function are studied along with the chemical reactions that take place within the body. The eleven body systems are studied along with their interactions. Laboratory activities include microbiology, sterile technique, and the dissection of animal and organ specimens.

Physical Science **Grade Level - 11, 12** **1.0 credit**

This is a very practical course and includes numerous hands-on laboratory trials supporting the lessons taught. Atomic and molecular structure, the interactions of matter, motion and energy, machines and work, magnetism and electricity, fuel and engines, acids and bases, heat, light, sound, are all studied from the perspective of making them practical in life.

Agricultural Science **Grade Level - 11, 12** **1.0 credit**

This course is designed to introduce the student to crop and animal agriculture from a biological perspective. Instead of focusing on the “how to” it focuses more on the “why” perspective. Subjects covered range from soil science to food preservation and safety. Other subjects more specific to agriculture include plant and animal growth and reproduction, weed and insect control, and disease treatment and prevention. Specialty subjects include organically grown products, aquaculture, and forestry. Labs and field trips are included as appropriate.

Physics **Grade Level - 11, 12** **1.0 credit**

Prerequisites - Algebra I & II, Geometry

Physics is the study of energy and matter in their various forms and how they interact. This course is intended for college-bound students who have interest in the sciences or who have above-average mathematical ability. Algebra 1 and Geometry are pre-requisites for Physics and students must have received grades of “C” or better in those classes. Students must also have completed Algebra 2 or be taking it concurrently. Topics taught include motion,

Experiment with other mediums, such as charcoal, pastel, acrylic paints, and oil colors. More advanced classes may include murals, sculpture, and design elements. Expect assignments and occasional quizzes.

Graphic Arts A

0.5 credit

Grade Level 10, 11, 12

A project based class that explores Photoshop and Illustrator.

Photography Grade Level 10, 11, 12 0.25 credit per semester

In this class you will spend the first quarter of the semester exploring both technical and artistic aspects of photography. This will first involve a study of your camera's auto modes, aperture, ISO, shutter speeds, exposure, focus, and other functions within the photographer's control. We will also study good perspective and composition from the work of professionals, and observe the extraordinary role light can play in your photographs. Each of these topics will be followed by hands-on task or assignment. Learn to think visually, tell a story, and watch for the decisive moment when composing photographs. This class will involve experiential learning as well as instructional time in the classroom. There will be weekly assignments and occasional quizzes.

Students should have their own camera with these requirements: Digital Canon model (unless otherwise approved--must be able to manually control ISO, shutter speed, and aperture), 3x or more zoom, camera's instruction manual !!IMPORTANT! An extra set of charged batteries must be present every class.

The following quarter will involve photo editing using Photoshop Elements 7, a software program for photo enhancement and design.

Work Study

Grade Level - 12

1.00 - 2.00 credits

Work study provides a learning opportunity for students to work toward their life goals by learning a trade, skill or knowledge not available in the classroom. Students must attend school a minimum of four hours each day and carry a minimum of four academic credits. The student needs to be employed by an approved employer the rest of the school day.