



West-Mont Christian Academy

Bringing God's Truth and Purpose into the lives of our students

2017-2018 High School Academic Course Description Guide

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☐ Honors Courses - alternating years

For 2017-18:

- AP U.S. History
- Collegiate Critical Reading & Response
- Anatomy & Physiology

For 2018-19:

- AP English Literature & Composition
- AP Environmental Science

☐ Honors Courses - every year

- AP Calculus
- Greek III, IV
- Physics
- Spanish III, IV
- Trigonometry/Pre-Calculus

Please note, some classes are offered in rotation every other year.

English

Advanced Placement English Literature and Composition (11th and 12th grade only) (☑ Honors)

Eligibility and Pre-requisites: Admission to this course is by invitation only. The level of academic mastery achieved in previous history and social studies courses determines eligibility. Strong study skills and a teachable attitude are also determinants for eligibility. Eligibility decisions are made by the WCA Administrator. Track: Academic, (1.0 credit)

Students may apply to enter course. Eligibility is based on English ability, as well as strong work ethic and teachable attitude. This is a college level English course. Students must take the AP exam (at a cost of 85.00 to the student) in the spring and may earn college credits as a result. Students will develop critical thinking through college level novels, poetry, and logic exercises. Students must be prepared to share their learning through formal and informal public speaking, as well as extensive analytical writing. Reading expectations average 75-100 pages a week, and 2-4 pages of typed writing is also expected weekly. Moodle is used in this course.

Collegiate Critical Reading and Response (11th, 12th grade) (☑ Honors)

Track: Academic/Honors, (1.0 credit)

The goal of this course is to prepare students to analyze primary arguments, isolate the logic used in persuasive writing, and respond with logical and thoughtful arguments. This skill, more than any other, is what students need as he or she prepares for college. The ultimate goal is to produce passionate learners who are not afraid to engage in fruitful discussion and disagreement, and who see learning as a means to glorify God. This course is taught on alternating years with AP English. Moodle is used in this course.

Foundations of Writing and Literature Grade Level Offered: (9,10,11,12)

This course MUST BE TAKEN by all students graduating from WCA Track: Academic and General (1.0 credit)

This course focuses on reading and learning about specific genres of literature. Students also learn to confront and evaluate literature in light of God's Word. Key writing skills are learned in this course. These skills are necessary for written projects and are used in all high school courses. Therefore, all students entering 9th grade and those new to West-Mont who have never had such a course should take Foundations of Writing and Literature. **(Only newly enrolled 10-12th grade students may test out of Foundations. For testing appointment, please call Mrs. Brittney Pettis, the High School Administrative Secretary, immediately. Passing the test allows you to bypass Foundations, but you are still required to take another English in its place.)**

British Literature Grade Level Offered: (9, 10, 11, 12) This Course Is Available Only Certain Years.

Pre-requisites: None - Track: Academic, (1.0 credit)

The study of British Literature is an opportunity to confront the great literary works of the past from Great Britain. This course is recommended for the 11th or 12th grade student although it is not too difficult for the 9th or 10th grader. It correlates in some instances with World History but this is not a pre-requisite. Students will learn to recognize major authors, periods, forms, and works in English Literature. Additionally, they will be able to respond to literature in both oral and written form and be able to make correlations between literature and history, life, the arts, language, and God's truth. Offered on alternating years with American Literature.

American Literature Grade Level Offered: (11, 12) This Course Is Available Only Certain Years.

Pre-requisites: US History (may be taken in conjunction with American Literature) - Track: Academic, (1.0 credit)

This course is designed to give the student the opportunity to confront the great literature of America. This includes the study of the secular worldview and how it contrasts with the Christian worldview, to teach the student how to defend their Christian faith in a secular world. This course begins with a study of colonial literature, and continues with progressive studies of American literature through the development of America, and into literature based on human thought and fiction. This course uses non-fiction, essays, poetry, biography, autobiography and fiction. Offered on alternating years with British Literature.

World Literature Grade Level Offered: (10,11,12) This Course Is Available Only Certain Years.

Pre-requisites: None - Track: Academic, (1.0 credit)

A study of World Literature is an opportunity to confront the great classics of the World and evaluate them in the light of God's Word in order that the student may further understand and articulate God's truth. This course is recommended for 10-12 grades although it should not prove too difficult for the 9th grade student. A benefit of increased understanding is achieved if this course is taken concurrently or following World History.

Christian Literature Grade Levels Offered (9, 10, 11, 12)

Pre-requisites: None - Track: Academic and General, (1.0 credit)

This course is a survey of modern Christian literature. Students will read and examine in detail at least 5 works. Past examples have included: *Normal Christian Life* - by Watchman Nee, *Mere Christianity* - by C.S. Lewis, and *Purpose Driven Life* - by Rick Warren.

English & Foreign Language

Christian Literature Grade Levels Offered (9, 10, 11, 12)

Pre-requisites: None - Track: Academic and General, (1.0 credit)

This course is a survey of modern Christian literature. Students will read and examine in detail at least 5 works. Past examples have included: *Normal Christian Life* - by Watchman Nee, *Mere Christianity* - by C.S. Lewis, and *Purpose Driven Life* - by Rick Warren.

General Grammar and Literature Grade Levels Offered (9, 10, 11, 12), Year 1.

Pre-requisites: None - Track: General, (1.0 credit)

This course is designed for students who would benefit from a review of basic grammar skills. This course also contains a literature component to help strengthen students' reading and comprehension abilities. It is recommended that students taking this course would also take **General Writing and Literature** then proceed to Foundations of Writing and Literature and then a literature course to complete their four years of English.

Foreign Language

Spanish I Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None - Track: Academic, (1.0 credit)

Spanish I is an introductory level course, which assumes the student has no background in the language. Spanish is spoken all over the world by millions of people. Communicating and learning the basics of the language can be an exciting and valuable experience. Students who earn a minimum grade of "C" may continue their foreign language study in the Spanish II course. Specifically, this course will teach students: the sounds of the language through the Spanish alphabet; the four skill areas of a language - reading, writing, speaking, and listening comprehension; practical vocabulary involving food, family, familiar objects and surroundings, greetings, preferences and describing people and places; while helping students learn to be culturally aware of Spanish customs, holidays, foods, and activities.

Spanish II Grade Level Offered: (10, 11, 12)

Pre-requisites: Spanish I (minimum average: "C") - Track: Academic, (1.0 credit)

Spanish II is a continuation and reinforcement of Spanish I, and an expansion and addition of skills learned. Successful completion of the Spanish I is necessary to continue at this intermediate level. Upon satisfactorily completing this course, students who wish to continue their study of foreign language are eligible to enroll in advanced Spanish III course. This course offers students the chance to review vocabulary and grammar presented in Spanish I, reinforce establish proficiency in the skill areas of listening, speaking, reading, and writing in Spanish, to encourage students to become increasingly creative in their oral and written expression, to expand the students' knowledge of Spanish grammar and vocabulary, and cultural awareness.

Spanish III (☑ Honors) Grade Level Offered: (11, 12)

Pre-requisites: Spanish I & Spanish II (minimum average: "C") - Track: Academic, Honors (1.0 credit)

Spanish III is designed to build on and expand the foreign language skills developed in introductory and intermediate courses. Successful completion of Spanish II is necessary to continue at this advanced level. Students who satisfactorily complete this course are prepared to continue their language study at the college level. Spanish III students will: review vocabulary and grammar presented in Spanish II; continue to reinforce and further the student's proficiency in the skill areas of listening, speaking, reading and writing in Spanish; enable students to become involved in situations that a young person might actually encounter in a Spanish speaking environment; expand the students cultural knowledge to include information about art, music, drama, and literature of various parts of the Spanish-speaking world.

Spanish IV (☑ Honors) Grade Level Offered: (11, 12)

Pre-requisites: Spanish I, II, III (minimum average: "C") - Track: Academic, Honors(1.0 credit)

New Testament Greek (I, II, III, IV) (☑ III & IV Honors) Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None - Track: Academic, (1.0 credit)

These courses are designed especially for students who plan to attend Christian colleges. Students are expected to take New Testament Greek over a minimum of two consecutive years of study. The main goals of these courses are to help the student master a minimum of 200 base vocabulary words, the Greek system of verb tenses (including present, future, imperfect, aorist, and perfect), as well as the importance of Greek participles, and to master sufficient vocabulary and grammar skills to be able to begin to translate I John near the end of the second year.

History & Social Studies

U.S. History (Colonial Period-Present) Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Academic and General, (1.0 credit)

History is both a record of what mankind has done with the time God has given them and an account of what God has done and is doing in the midst of humanity. U.S. History views that record and account of the people who now inhabit these United States of America from the time of Columbus' voyage to the present from both of these above mentioned perspectives. U.S. History profoundly merges with world history in the 21st century.

General History Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, General, (1.0 credit)

This course provides a general overview of World and American History as well as the United States government. Students will complete basic projects and reports.

AP United States History (@ Honors) Eligibility and Pre-requisites: Admission to this course is by invitation only. The level of academic mastery achieved in previous history and social studies courses determines eligibility. Strong study skills and a teachable attitude are also determinants for eligibility. Eligibility decisions are made by the WCA Administrator.

Track: Academic, (1.0 credit)

This Advanced Placement (AP) course in U.S. History consists of a full high school academic year of work comparable to U.S. History courses in colleges and universities. It is expected that students who take an AP course in U.S. History will seek college credit, college placement or both, from institutions of higher learning. Students will have the opportunity to pass an AP Exam that may provide such college-level credit. The course curriculum is very demanding. Students must be highly self-motivated, and understand the large commitment needed to successfully complete AP U.S. History. Saturday and/or evening review sessions will be required during the month of April, as the AP Exam date approaches. Students may be required to sign a contract of commitment prior to beginning this course. A course fee, above tuition, may be required to cover expenses incurred by WCA in offering this advanced course. Such fees will be determined on an annual basis.. Offered on alternating years (Year 1).

Civil War History Grade Level Offered: (11, 12) This Course Is Available Only Certain Years.

Pre-requisites: None, Track: Academic, (1.0 credit)

This is an upper level (11th and 12th) history course designed to help satisfy the requirements for an Academic Honors Diploma. Worth one full credit, this class meets for one full academic year, 5 times a week. Students will survey the history of the supreme American crisis known as the U.S. Civil War in a manner that is not possible in a typical high school U.S. History course. The goal of Civil War History is to assist the student to discover the answer to the questions: Why was it necessary that the young American nation divide and bring on this war? Why did the war proceed in the manner that it did with the South enjoying early success but eventually being defeated after four bloody years? Why did the process of Reconstruction end only half completed? We will seek to answer this question whenever possible through the lens of scripture. Offered on alternating years (Year 1).

Twentieth Century History Grade Level Offered: (11, 12) This Course Is Available Only Certain Years. Pre-requisites: None, Track: Academic, (1.0 credit)

This course is designed to acquaint the Christian high school student with the terrible consequences borne out in the 20th century of man's reason acting in an autonomous fashion (apart from God) upon human affairs. The main goals of this course are to help students understand: the background to the First World War, sequences of events and strains upon nations that emerged during the First World War; the tension and consequences of the Peace of Versailles, the terrible drift and the abdication of responsibility by the victorious powers, the world-wide Great Depression, the immediate causes of World War II, the course of World War II and the political consequences of the Rise of the Soviet Union and America, the origins of the cold war, the course of the Cold War as well as the end of colonialism, the end of the Cold War and the repercussions for a world of multi-polar (rather than bi-polar) rivalry and the problems and challenges of the Post Cold War world. Offered on alternating years (Year 2).

History & Social Studies

World History Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General, (1.0 credit)

World History (Western Civilization) views the record and account of Europeans from ancient times unto the modern era. In the modern era this narrative merges with and profoundly influences the general trend of world history. World History is a senior high history course that can be taken anytime during the four years (9th - 12th) of high school. Course topics include: the Greco-Roman world, the unique socio-economic political structure of the middle ages, the Christian Church including the medieval Roman Catholic Church and the Protestant Reformation, the causes behind the rise of the principle countries of the modern era, the events and causes behind the revolutionary terror and war of the 20th century, and the causes events and outcomes of the cold war. Offered on alternating years (Year 1).

World War II History Grade Level Offered: (11,12) This Course Is Available Only Certain Years.

Pre-requisites: None, Track: Academic, (1.0 credit)

This upper level course is designed to acquaint the student with the essential facts concerning the 2nd world war. The war was the ultimate example of human depravity based on a rejection of Biblical Revelation and a terrifying illustration of the provocative temptation offend when that which stands for good is weak and irresolute. The course will be taught to make these very points clear to the students. This is an upper level course (11th and 12th) history course designed to help satisfy the requirements for an Academic Honors Diploma. Worth one full academic credit the course will meet 5 times a week for a full academic year. The course is designed to acquaint students with the tragic consequences of the Treaty of Versailles, which laid the groundwork for W.W. II and the Pre-war developments in Europe and Asia, which led to the outbreak of aggression. The course will also help students become familiar with the course of the war and especially the role of U.S.A. in its outcome. It will also deeply impress on the students' minds the atrocities of the Holocaust and Japanese War crimes; and will create in the students a clear picture of the war's conclusion and how the manor of that conclusion thrust the U.S.A. and the USSR into the Cold War. Offered on alternating years (Year 2).

Civics: American Government and Economics Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General, (1.0 credit)

The word "government" comes from a Latin word which means, "to steer a ship." Man's fallen sinful nature makes some form of government essential if utter chaos misery and barbarism is to be avoided. God has ordained human government, which in simple terms is the authority to direct the affairs and control the actions of others. This authority comes from the Creator unto whom people and governments must give an account. The U.S. Government and its corresponding economic system, owing much to the Judeo-Christian influence and the Protestant reformation has been the most successful in history. U.S. Government is a Senior High course that can be taken at anytime during the 4 years (9th through 12th) of high school. It is preferable if the student has had some U.S. history first. The goals of the course are to familiarize the student with the biblical basis for human government and a brief survey of the history and meaning of various types of government, our English and Biblical heritage of American Government and Law including the colonial era, the history and principles involved in the writing of our Constitution and Bill of Rights, the structure and functioning of government as contained in the constitution, the origin and structure of state and local government, the workings of the principle economic systems, as well as the basic laws of economics and the structure and dynamics of the U.S. economy. Offered on alternating years (Year 2).

Western Civilization- Art, Culture and Politics Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General

Can count as a History or Fine Arts credit, (1.0 credit)

The purpose of this class is to educate students in the development of Art over time beginning with a survey of the earliest known Western visual arts and moving through current modern forms of art. The intention is to show how God has used political and social climates over time to steer and influence art. This course will also bring out art's influence on society as well. Offered on alternating years (Year 1).

Mathematics

Math Fundamentals Grade Level Offered: (9, 10, 11, 12 – Offered every 3rd year)

Pre-requisites: None - Track: General, (1.0 credit)

Students will review basic math skills including: addition, subtraction, multiplication, division, the ability to estimate and solve word problems, the metric system, systems of measurement, understand geometric definitions, and the Pythagorean theorem. Students will also demonstrate the ability to do basic fractions, find the area and volume of various shapes and sizes, rates, ratios, proportions, and understand probability and statistics. Additionally, students will have the ability to use positive and negative numbers, understand variable expressions, work with equations, and establish coordinates on graphs. This course is offered on alternating years with Personal Finance and Consumer Math.

Personal Finance Grade Level Offered: (9,10,11,12 – Offered every 3rd year)

Pre-requisites: None – Track: General, (1.0 credit)

Students will be introduced to the basics of accounting (Journals, General Ledger, Balance Sheet, Income Statement, etc.) They will continuously use various arithmetic calculations to learn the basics of business accounting, which will develop improved mathematical skills. This course is offered on alternating years with Math Fundamental and Consumer Math.

Consumer Math Grade Level Offered (9,10,11,12 – Offered every 3rd year)

Pre-requisite: None – Track: General, (1.0 credit)

Students study the principles surrounding everyday living needs and the math associated with each area. Leases, rent payments, budgeting, stocks, bonds, insurance, vehicle maintenance, educational expenses, taxes, and more are covered in this valuable course. A micro-economy is developed in the class where students get first-hand experience in knowing what it is like to perform various functions in our society such as: policeman, doctor, tax collector, business owner, etc. This course is offered on alternating years with Personal Finance and Math Fundamentals.

Algebra I Grade Level Offered: (8, 9)

Pre-requisites: 8th Grade Math or, successful completion of placement test - Track: Academic, (1.0 credit)

Algebra I is the first course in high school to embrace the abstract reasoning of math. It usually follows Eighth Grade Math and precedes Geometry. Because Algebra I assumes the student is ready to handle abstract concepts, students are pre-tested to make sure they are solid in fractions, decimals, percentages, the use of negative numbers, and the basic functions of math. All West-Mont 7th grade students are tested at the end of the school year. If they pass the pre-test, they have the option to take Algebra I in 8th grade. **(Students that take Algebra I in 8th grade will not receive HS math credit, but will be able to go further in their math classes in High School.)** The goals of Algebra I include: a review of the basic math functions, solving complex equations of one variable, solving inequality equations, learning to operate with exponential notation, working with polynomial and the factoring of polynomials, introducing linear equations and functions, and learning the rules related to working with irrational expressions.

Geometry Grade Level Offered; (9,10,11,12)

Pre-requisites: Since Geometry uses and strengthens the algebraic solution to word problems, Geometry normally follows Algebra I. Algebra II then follows geometry. Some students may elect to take Algebra II before Geometry, however since Algebra II involves more difficult abstract math, it should precede Geometry only if the student has completely mastered the material presented in Algebra I. - Track: Academic, (1.0 credit)

Geometry, more than any other high school math course, teaches students the concept that truths must stand behind any statement. As the student studies the geometric relationship between shapes, they will begin to understand that proven statements must support conclusions. Some topics included in the course: geometric measurements and shapes, proof systems, congruency, trigonometric relationships and constructions.

Algebra II Grade Level Offered: (10, 11) Pre-requisites: Algebra I & Geometry - Track: Academic, (1.0 credit)

Algebra II requires mature abstract thinking abilities. Algebra II is best taken after Geometry and before Trigonometry. Upon approval of the math department, a student may choose to take Algebra II before Geometry to satisfy a scheduling conflict. But the concern is that the student may not be ready for the more demanding abstract thinking skills required. The course includes a review of real numbers and problem solving and more complex exponential expressions while reintroducing equations and complex inequalities, relations, functions and their graphs, solution systems of equations, and manipulating Polynomials and polynomial expressions. Students will also learn to work with rational expressions, the properties of powers, roots and complex numbers, as well as solve quadratic equations.

Trigonometry / Pre-Calculus (☑ Honors) Grade Level Offered: (11-12)

Pre-requisites: Algebra II & Geometry - Track: Academic/Honors, (1.0 credit)

Trigonometry is an in-depth study of angles and circular motion. While it requires the student to think in new and innovative ways, trigonometry challenges the student to understand the math behind physics and chemistry. Trigonometry follows (and needs as a foundation) both Geometry and Algebra II. After Trigonometry has been completed, AP Calculus is the next math course to follow for those pursuing a college path.

Mathematics & Technology

AP Calculus (☉ Honors) Grade Level Offered: (12)

Eligibility and Pre-requisites: Admission to this course is by invitation only. The level of academic mastery achieved in previous algebra, geometry, and trigonometry classes determines eligibility. Strong study skills and a teachable attitude are also determinants for eligibility. Permission from the WCA Administration is required. - Track: Academic/ Honors, (1.0 credit)

This Advanced Placement (AP) course in Calculus consists of a full high school academic year of work comparable to Calculus courses in colleges and universities. It is expected that students who take an AP course in Calculus will seek college credit, college placement or both, from institutions of higher learning. Students will have the opportunity to pass an AP Exam that may provide such college-level credit. The course curriculum is very demanding. Students must be highly motivated and understand the large commitment needed to successfully complete AP Calculus. Saturday and/or evening review sessions will be required during the month of April, as the AP Exam date approaches. Students must possess an approved calculator, such as a TI-83. Students may be required to sign a contract of commitment prior to beginning this course. A course fee, above tuition, may be required to cover expenses incurred by WCA in offering this advanced course. Such fees will be determined on an annual basis.

Technology

Computer Applications Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General. (1.0 credit)

Can Count as Technology Credit or a General Science Credit.

This course is designed to develop the Christian high school student's computer application and keyboarding skills to a level of proficiency that they will feel comfortable with typical collegiate and/ or business demands. The student will gain a detailed awareness of computers and their use in society. Much of the course work will be self-paced to allow students to progress independently. In this course, students will learn proper typing skills, the general use of computers our society, application software and operating systems utilized in business settings (word processors, spread sheets, databases, web-browsers), computer hardware and associated media devices, and simple programming languages.

Word™ Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General, (0.25 credit)

This course is designed the Christian high school student's word processing skills, in order to demonstrate competency as it relates to collegiate-level and/or business standards. The student will gain a detailed awareness of computers and their use in society. Students will explore current and possible future uses of word processing in our society.

Excel™ Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General, (0.25 credit)

This course is designed to develop the Christian high school student's spreadsheet/database skills, in order to demonstrate competency as it relates to collegiate-level and/or business standards. The student will gain a detailed awareness of computers and their use in society. Students will explore current and possible future uses of spreadsheets/databases in our society.

Powerpoint™ Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General, (0.25 credit)

This course is designed to develop the Christian high school student's presentation skills, in order to demonstrate competency as it relates to collegiate-level and/or business standards. The student will gain a detailed awareness of computers and their use in society. Students will explore current and possible future uses of presentation software in our society.

Publisher™ Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General, (0.25 credit)

This course is designed to develop the Christian high school student's publishing skills, in order to demonstrate competency as it relates to collegiate-level and/or business standards. The student will gain a detailed awareness of computers and their use in society. Students will explore current and possible future uses of publishing software in our society.

Technology

Real World Technology Grade Level Offered: (9, 10, 11, 12), All Tracks (.25 credit)

This class deals with the myriad of technological innovations we use almost every day, such as smoke detectors, circuit breakers, heating systems, automobiles, catalytic converters, toilets, plumbing applications, basic home wiring, radon detection, microwaves, radio frequency tags, electric motors, transformers, refrigeration, lasers, basic medical procedures, etc. Students will also be encouraged to submit topics that they are curious about for inclusion in the curriculum. This class will meet once a week for classroom demonstrations and discussion. Students will also use Moodle* to keep track of grades and assignments.

Emerging Professional Technology Grade Level Offered: (9, 10, 11, 12), All Tracks (.25 credit)

This class explores the many new and exciting technologies that are changing our world. Topics include genetic engineering, nano-medicine, CT, MRI, and PET imaging, arteriography, cardiac pacemakers, fetal monitoring, robotic surgery, solar photovoltaics (summary), geothermal energy (summary), fiber optics, crowd source applications, etc. Students will also be encouraged to submit topics that they are curious about for inclusion in the curriculum. This class will meet once a week for classroom demonstrations and discussion. Students will also use Moodle* to keep track of grades and assignments.

Emerging Future Technology Grade Level Offered: (9, 10, 11, 12), All Tracks (.25 credit)

This class explores the many new and exciting technologies that are poised to change our world. Topics would include 3-D printing, satellite communications, graphene, fuel cells, robotics, geothermal energy (detailed), photovoltaics, crowd source application, nano-engineering, maglev trains, electric vehicles, hypersonic travel, and aerodynamics. Students will also be encouraged to submit topics that they are curious about for inclusion in the curriculum. This class will meet once a week for classroom demonstrations and discussion. Students will also use Moodle* to keep track of grades and assignments.

Computer Assisted Design Grade Level Offered: (9, 10, 11, 12), All Tracks (.25 credit)

This is an entry level course for students to explore a technology that is reshaping every area of our lives. Students will learn AutoCAD techniques, art design, exploring the skills needed for architecture, construction, manufacturing, engineering, 3-D modeling and printing, animation, layering, crowd generation, and other motion graphics applications. This technology is now a driving force in every occupation from 3-D printed dental implants to customized wedding pastries. The software utilized for this course is state-of-the-art and is also available for students to download at home at no cost. Students should be aware that this curriculum is relatively intense and requires a solid academic commitment to be successful. (The optional home download of this software requires a fast processor and a recommended 8 Gb of RAM.)

***Moodle is an electronic classroom that augments and accelerates WCA traditional teacher-taught classroom environment.**

Science

Anatomy & Physiology (☑ Honors) Grade Level Offered: (11, 12)

This Course Is Available Only Certain Years. Pre-requisites: Grade "C+" or above in Academic Biology, and permission from the WCA Administration, Track: Academic, (1.0 credit)

Anatomy & Physiology is a course for students definitely planning on seeking a medically oriented, or biology-related degree in post-secondary college work. The course content is extremely demanding. Only highly motivated students with strong memorization skills and good study habits should ask permission to take this course. This course is taught a in Moodle format. Student iPads are required. Class size is limited. (Year 1) Offered on alternating years with Sustainable Energy. Ipads are recommended but not required.

Physics (☑ Honors) Grade Level Offered: (11,12)

Pre-requisites: Algebra II, Physical Science Recommended

Track: Academic/Honors, (1.0 credit)

Physics is a comprehensive review of traditional physics (mechanics) as well as the properties of matter, light, sound, thermodynamics, electricity, magnetism and nuclear physics. The course does not place a heavy emphasis on the higher mathematics applications related to physics, but does seek to bring a strong conceptual understanding to every student. Physics students are required to have successfully completed Algebra II as a pre-requisite. A working knowledge of geometry is also helpful, but not required. Generally, it is recommended that students wait until their senior year to take this course. In doing so, there is the added benefit that the course material will help support the curriculum of AP Calculus which is also generally taken during the senior year.

AP Environmental Science (☑ Honors) Grade Level offered: (11, 12) Eligibility and Pre-requisites: Admission to this course is by invitation only. The level of academic mastery achieved in previous history and social studies courses determines eligibility. Strong study skills and a teachable attitude are also determinants for eligibility. Eligibility decisions are made by the WCA Administrator. Students must have successfully completed Chemistry and Physics to take this course. Track: Academic/Honors (1.0 credit)

The AP Environmental Science course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. The course content will also focus on principles of Biblical stewardship and include understandings promoting a Christian worldview. This course is taught a in Moodle format. iPads are recommended but not required.

Academic Biology Grade Level Offered: (10-11-12)

Pre-requisites: None, Track: Academic, (1.0 credit)

Academic Biology is a course, which lays a foundation of understanding toward Botany, Human Anatomy and Physiology, and Zoology. The course content is designed to prepare students for entry-level college biological sciences courses. The course requires strong memorization skills and good study habits. The course includes student and demonstration labs designed to familiarize students with laboratory techniques and safety. Animal and plant dissections are also part of the program; however, students may elect not to participate, without that decision affecting their quarterly grade. The course is designed to give students an understanding into the wonders of God's universe and an appreciation of the God's creation around us. This course is taught a in Moodle format. iPads are recommended but not required.

Physical Science Grade Level Offered: (9)

Pre-requisites: None, Track: Academic and General, (1.0 credit)

Physical Science is an overview of Meteorology, Oceanography, Geology, Chemistry and Physics. Additionally, this course lays an important foundation of scientific understanding to prepare students for more advanced science courses, and provides each student the opportunity to master the study skills and study habits necessary for success in those courses. Physical Science is designed for 9th grade students who have matriculated through the standard 7th & 8th grade science curriculum. The course material is foundational for student success in more advance science courses. Moodle is used in this course.

Science

Chemistry Grade Level Offered: (10,11,12)

Pre-requisites: Algebra I, Physical Science Recommended, Track: Academic, (1.0 credit)

Chemistry is a course, which lays a foundation of understanding toward modern chemistry. The course content is designed to prepare students for entry-level college chemistry and includes analytical, physical, stoichiometric, organic and nuclear chemistry. The course content is demanding. The course includes student and demonstration labs designed to familiarize students with laboratory techniques and safety. This course is taught a in Moodle format. Student iPads are required.

General Biology Grade Level Offered: (10-11-12)

This Course Is Available Only Certain Years

Pre-requisites: None, Track: General, (1.0 credit)

General Biology is a course, which lays a foundation of understanding toward Botany, Human Anatomy and Physiology, and Zoology. The course content is designed to provide students with an overview of the biological sciences. The course requires strong memorization skills and good study habits. The course includes student and demonstration labs designed to familiarize students with laboratory techniques and safety. The course is designed to give students an understanding into the wonders of God's universe and an appreciation of the God's creation around us. This course is a full credit science course, but may not be used to qualify the student for an "Honors Academic" diploma.

Earth Science Grade Level Offered: (10-11-12)

This Course Is Available Only Certain Years

Pre-requisites: None, Track: General, (1.0 credit)

This course reflects the current knowledge and advances in the earth sciences. Modern, accurate explanations of the study of minerals, water and glaciers, the atmosphere, plate tectonics and continental drift, the oceans, weather, and the solar system and space are included. Important current problems such as conservation and pollution of the environment are also presented.

Ecology Grade Level Offered: (9,10,11,12)

This Course Is Available Only Certain Years.

Pre-requisites: None, Track: General, (1.0 credit)

This is a general science course designed to give students a comprehensive understanding of our stewardship responsibility to the world in which we live. Topics include erosion, pollution, industrialization and conservation. This course is a full credit science course, but may not be used to qualify the student for an "Honors Academic" diploma.

Computer Applications - Qualifies as a general level Science or Technology Course - See course description under Technology.

Sports Science -Can count as a General Science Credit- see course description under Health/Physical Education.

Fine Arts - Visual & Other

Art Studio I Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None Track: Academic and General, (0.25 credit)

This course is an introduction to high school Art. Students will study the principles and elements of Art as seen in Modern Art and Art through the ages. A variety of media is used including pencil, colored pencil, charcoal, colored chalk, pastels, tempera paint, acrylic paint, watercolor paint, and oil paint. Students will be creating both 2-D and 3-D artwork. Some graphic design is also explored.

Drawing and Painting Level Offered: (9, 10, 11, 12)

Pre-requisites: None Track: Academic and General, (0.5 credit)

Two groups meet and complete different studies during one class period. The drawing group will learn mechanical drawing, drafting methods, architectural drawing with pencil and a computer. The painting group will learn to work with different media including watercolor, acrylics, tempera, oils, and oil and chalk pastels on canvas and paper. In both classes, students learn the elements and principles of design and various artists and their styles.

Visual Communications Level Offered: (9, 10, 11, 12)

Pre-requisites: None Track: Academic and General, (0.25 credit)

Posters, brochures, advertisements, ads, buttons, logos and patches are designed in this class. Digital photography is used in all designs. Students should have a digital camera available for class use.

Western Civilization- Art, Culture and Politics Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General Can count as a History or Fine Arts credit, (1.0 credit) See full description under History section.

Yearbook Grade Level Offered: (11,12)

Pre-requisites: Invitation and Application ONLY, Track: Academic and General, (0.5 credits)

Yearbook Staff is an opportunity to creatively use pictures to capture the school year in a book. It is a challenging task and responsibility. Staff will have to learn deadlines, time management and teamwork to get the yearbook completed. Students on yearbook staff must be committed individuals with a creative eye, willingness to learn and a commitment to working together. They will learn and develop skills in layout design, photography, journalism and theme.

Fine Arts - Performing

Concert Band Grade Level Offered: (9,10,11,12)

Pre-requisites: None, Track: Academic and General (0.50 credit)

This class is designed to increase the musicianship of all students in measurable ways through the mastery of progressive band music and the performance of the music in the concert setting. Band provides an opportunity to master the skill of working together. Concert band is an elective course for high school students who have demonstrated an interest and aptitude for playing a musical instrument. It provides training for students preparing to go further with music in college or other performance settings. The course allows students to: master the performance music and apply it in the concert band setting; advance their skills through the years, as the selected works become more challenging.

Concert Choir - Students in Concert Choir must also participate in High School Chorus.

Grade Level Offered: (9, 10, 11, 12) Pre-requisites: None, Track: Academic and General, (0.5 credit) There are two required performances per year: The Winter and Spring Fine Arts Nights. Students will also compete in the ACSI Fine Arts competition in the spring.

High School Chorus Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General (0.25 credit)

Students enrolling in this class must have a love of music, singing and willingness to work hard. The class requires a minimal developed voice and the ability to sing a particular part (S,A,T,B). The students work on selections of mid-range difficulty. Each student is encouraged to develop their listening skills, voice quality and range, and correct breathing methods.

String Ensemble Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General (.25 credit)

The string ensemble is an elective class for high school students who have demonstrated an interest and aptitude for playing a string musical instrument. It provides training for students preparing to go further with music in college or other performance settings.

Theater Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: Academic and General, (0.25 credit)

Students will learn various acting skills and elements of theater. Students will learn how to develop a character, about improvisation, presenting a monologue, scene and costume design, lighting, sound and much more.

Vocal Ensemble Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: High School Chorus/ Min. GPA: 2.00, Track: Academic and General

Students in ensemble must also participate in High School Chorus & Concert Choir. (0.75 credit)

This class is an audition entry class. Auditions are conducted the first and second weeks of school in the fall. The group usually consists of 6-8 members. Students that are eligible to audition must have a developed voice, ability to sing and stay on a vocal part, be a member of the high school chorus, have high standards in character and attitude, must maintain a GPA 2.00 or above. Each student may be asked to sing solos and give a personal testimony during performances. The main goals of this group are to minister to others through music and to promote WCA in our community. Each member must commit to being available for numerous outings to local churches and events throughout the year, usually 3-4 in the months of December and May 2 times per month Feb-June (totally 10-15 per year). Required school performances are both Fine Arts programs, Faith Banquet and Senior Graduation Ceremony. Required outfit is worn throughout the year and selected by the group's members. The outfit will cost: \$75 -100.

Biblical Studies

Christian Literature Grade Levels Offered (9, 10, 11, 12)

Pre-requisites: None – Track: Academic and General, (1.0 credit)

See description under English.

Exegetical Bible Grade Levels Offered: (9, 10, 11, 12)

Pre-requisites: None- Track: Academic and General, (1.0 credit)

Students will analyze and interpret passages of Scripture in these courses offered to students in grades 9-12. These courses are arranged into four units (years) of study. Each year is a cross section of various books of the Bible. A student taking these courses from grades 9 through 12 will be exposed to a complete overview of the Bible without repetition. Those choosing only one of these courses (for just one year) will still be exposed to a unified message of the Bible.

Faith Quest Grade Levels Offered: (9, 10 – offered on even numbered years)

Pre-requisites: None Track: Academic and General, (1.0 credit)

This Bible survey course focuses on helping students understand God's redemptive plan for man, see how it unfolds in Scripture, and embrace their part in it. Students will trace the implementation of God's plan from pre-creation to the unfolding of Heaven, emphasizing the connections between the events and their meaning for today's world. Offered on alternating years – (Year 2).

Future Quest Grade Levels Offered: (11, 12 – offered on even numbered years)

Pre-requisites: None - Track: Academic and General, (1.0 credit)

This Bible application course provides juniors and seniors with a solid foundation in Bible knowledge and application. Students study stewardship, career success, family relations, personal ethics, defending the faith, and community responsibilities in relation to a Biblical worldview. Students will be prepared to transition into adulthood as disciples of Christ; committed to sharing their faith with others. Offered on alternating years – (Year 2).

Life Quest Grade Levels Offered: (9, 10 – offered on odd numbered years)

Pre-requisites: None Track: Academic and General, (1.0 credit)

Life Quest teaches the 9th and 10th grade student how they can access the life and teachings of Christ to discover the "code" for living. It goes beyond a review of the events surrounding Jesus' life by providing an in-depth look at the character of Christ and the application of His teachings. Through a study of the four Gospels, students learn to navigate their own lives by using Biblical truths as their standard. Offered on alternating years (Year 1).

Pursuit of Worship Grade Levels Offered: (9, 10, 11, 12)

Pre-requisites: None- Track: Academic and General, (1.0 credit)

The purpose of this class is to educate students in the Biblical view of worship and hopefully inspire them to worship the Lord with their whole being. The intention is to develop student leaders who are willing and ready to lead their generation toward serving and worshiping God with all that is within them. Offered on alternating years – (Year 1).

Truth Quest Grade Levels Offered: (11, 12 – offered on odd numbered years)

Pre-requisites: None Track: Academic and General, (1.0 credit)

This Bible course focuses on the basic doctrines of the Bible to help students defend their faith in a post-modern culture. It addresses the questions faced by many juniors and seniors: What's life all about? Will I go away to college? Will I be able to take care of myself in the real world? Will I be able to live my life the way God intended? Students are taught how to apply biblical truths to their daily lives today and in the future. Students learn that God has given them the Bible so they personally can find the Biblical truths that satisfy all their questions. Offered on alternating years – (Year 1).

Life Purpose Grade Levels Offered: (required in 11th or 12th grade) Pre-requisites: None, Track: Academic and General (1.0 Credit) Graduation requirement beginning with the graduating class of 2018.

"Life Calling" can be defined as a confidence in an overriding purpose for your life. Regardless of how strong your confidence is at this point about a specific purpose for your life, God has created you in a unique and intentional way thus giving you significance and meaning. Life Calling is based on three core components: foundational values, unique design, and personal leadership. By considering what each of these three components mean in your life, a picture of God's specific design and direction for you can begin to appear. Understanding God's direction becomes especially important once you begin asking questions about important life decisions.

Other Electives

Professional Vocational Skills Training Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None, Track: General (0.5 credit)

This course is designed to give students the opportunity to achieve a certain level of proficiency in professional and vocational skills such as: auto detailing, auto maintenance, auto sales & service: auto restoration and body work, two stroke/small engine study, small electronic/machinery repair, outdoor gardening/landscaping, and building maintenance. Throughout this hands-on course, students will study basic tools and their uses; gain a basic knowledge of the techniques demonstrated in class; as well as learn about different professions and vocations.

Health Care Professions Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None Track: General and Academic (Vocational Credit - 0.25)

Health Care Professions is designed to expose students to different areas of the field of health care to help students determine their future profession. This course integrates teaching and special speakers from various nursing specialties and different educational backgrounds. Students are exposed to medical equipment, medical terminology, and visits to a variety of medical facilities.

Study Skills/ College Prep - Grade Level Offered: (9, 10, 11, 12) Pre-requisites: None, Track: General (0.25 credit)

This course helps students develop organizational and study strategy skills. This is an excellent course to help students develop good study habits that will be a benefit throughout high school and college. It is also designed to help students understand and prepare for the College Board Scholastic Aptitude Test (SAT). Students will be given an understanding of everything from the test format and question samples to scoring and college reports. Students will also learn other College and Career bound skills like resume writing, interviews, college essays, budgeting, career interests and much more.

Biblical Foundation of Missions— Grade Level Offered: (9,10, 11, 12) Pre-requisites: None, Track: General, Academic (0.25 credit)

The purpose of this class is to gain a Biblical understanding of missions and how we are expected to live out our mission in everyday life as believers. We will study the Scripture to build our understanding of missions, as well as look at various books, mission organizations, and missionaries to better understand people, cultures and how to live out our life's commission of being a disciple of Christ.

Future Teachers—Grade Level Offered : (12) Track General, Academic (1 credit)

This class is design for students who are considering teaching or ministry as a career. In this class students are given the opportunity to serve as a teacher's aide for one period a day. Students are assigned to an elementary (and in some cases a middle school classroom) at a level they might be interested in teaching someday.

Health / Physical Education

Healthy Living Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None - Track: Academic and General, (0.25 credit)

This course will primarily focus on *Health Lifestyle Living* including Biblical principles for maintaining sexual purity. Throughout the course, students will learn about the major disease causes of morbidity and mortality in the 20th century; diagnosis, treatment and prevention, basic understanding of the body's defense mechanisms, developing a nutritious dietary plan; and a plan for a healthy lifestyle.

Physical Education - Includes Weight Lifting, Fitness Training, Aerobics, and Karate Classes

Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None - Track: Academic and General, (0.25 credit)

Physical Education is used as a means to set a student on a lifetime path of exercise and fun. Individual skills will be taught for each activity, team play and strategy will exhibited. This course will help students maintain a minimum degree of physical fitness.

Sports Science Grade Level Offered: (9, 10, 11, 12) (1.0 credit)

Pre-requisites: None, Track: Academic and General, (1.0 credit)

Can count as a General Science Credit.

The goal of this course is to teach the dynamics of training for sports (strength and cardiovascular), proper nutritional habits, care and prevention of athletic injuries, as well as ways of maintaining personal fitness habits for life. Students will also learn about the history of various aspects of common sports. Offered on alternating years.

School Sports— Grade Level Offered: (9, 10, 11, 12)

Pre-requisites: None - Track: Academic and General, (0.25 credit)

Students who participate in a full season of any West-Mont sport will receive .25 P.E./Health Credit.