

Secondary School Scope and Sequence

Electives

7-8 grade electives include choir, drawing, general art, acting, PE, orchestra, madrigal performers

8-12 grade electives include political science, computer programming, orchestra, theater, yearbook, creative writing, drawing, general art, leadership, photography, choir, madrigal performers, theology and philosophy, polyhedral, history and philosophy of math, number theory, and economics.

Grade Level	Omnibus	Math	Science	Paradigm Classes	Language	Special Events
Grade 7	<p><u>Curriculum:</u> Omnibus Textbook, assigned books and readings</p> <p><u>Goals:</u> Students will learn to read, discuss, and engage primary and secondary materials in theology, philosophy, history, and literature during the <i>ancient</i> period.</p> <p><u>Reading List</u> <u>Includes:</u> <i>Chronicles of Narnia, Epic of Gilgamesh, The Odyssey, The Holiness of God,</i> and more</p>	<p>Algebra A: <u>Curriculum:</u> <i>Introductory Algebra</i>, Elayn Martin-Gay <u>Goals:</u> Part 1 of a 3 year algebra sequence developing the algebraic language necessary for study in higher mathematics. Introduction to solving linear equations and their applications. <u>Assignments:</u> Graded Homework, Quizzes, Tests, Semester Final Exams</p> <p style="text-align: center;">-OR-</p> <p>Algebra AB <u>Curriculum:</u> <i>Elementary Algebra</i>, Harold R. Jacobs <u>Goals:</u> Part 1 of a 2 year algebra sequence developing the algebraic language necessary for study in higher mathematics. Introduction to solving equations up to the derivation and use of the quadratic formula. <u>Assignments:</u> Graded Homework, Quizzes, Tests, Semester Final Exams</p>	<p>Earth Science: <u>Curriculum:</u> <i>Prentice Hall Life Science</i>, Pearson <i>Earth Science</i></p> <p><u>Goals:</u> Provide an overview of our earth and the life on it; core knowledge in map skills, land forms, weather, minerals and rocks.</p> <p><u>Assignments:</u> Reading, worksheets, quizzes, tests</p>	<p>Logic 1: <u>Curriculum:</u> <i>Logic I : Categorical. Propositional. Predicate</i></p> <p><u>Goals:</u> Learn categorical logic, testing the validity of syllogisms using three rules of validity; learn propositional logic, testing the validity of arguments using rules of substitution and truth tables; and learn predicate logic, parsing propositions into subject and predicate and applying universal and existential quantifiers</p> <p><u>Assignments:</u> Quizzes, Tests</p>	<p>Latin: <u>Curriculum:</u> Latin Alive! Book 2</p> <p><u>Assignments:</u> Grammar worksheets, translations, reading comprehension, recitations, quizzes, unit tests.</p> <p><u>Goals:</u> Learn various degrees of adjective and adverbs, new ablatives and datives, pronouns, passive voice verbs, dependent clauses, and participles. Be able to apply grammar in such a way as to translate into idiomatic English.</p>	<p>Narnia Feast, Gödel Field Trip to Princeton, Omnibus Tea Party, Gödel Logic Test I, Math Unit/Chapter Study Guide, Washington DC field trip, Trip to NYC, Philadelphia, or Baltimore</p>

<p>Grade 8</p>	<p><u>Curriculum:</u> Omnibus Textbook, assigned books and readings</p> <p><u>Goals:</u> Students will learn to read, discuss, and engage primary and secondary materials in theology, philosophy, history, and literature during the medieval period.</p> <p><u>Reading List Includes:</u> <i>Lord of the Rings, Confessions, Inferno</i></p>	<p>Geometry: <u>Curriculum:</u> <i>Elements</i>, Euclid <i>Geometry: Seeing, Doing, Understanding</i>, Harold R. Jacobs</p> <p><u>Assignments:</u> Graded Homework, Quizzes, Tests, Semester Final Exams</p> <p><u>Goals:</u> Survey of Euclidean Geometry, beginning with book 1 of Euclid's <i>Elements</i> and Euclid's proof of the Pythagorean Theorem, and moving to modern geometry and introduction to trigonometric ratios.</p>	<p>Physical Science: <u>Curriculum:</u> <i>Prentice Hall Physical Science</i></p> <p><u>Goals:</u> Provide a dynamic, hand-on class designed to build comprehension of basic chemistry principles and the laws of physics. Application of scientific method</p> <p><u>Assignments:</u> Reading, worksheets, problem-solving, quizzes, tests</p>	<p>Logic 2 <u>Curriculum:</u> <i>Logic II: Principia. Application</i></p> <p><u>Goals:</u> Learn propositional logic axiomatically, following <i>Principia Mathematica</i>. End the year with applying informal fallacies to famous debates and translate passages of Scripture into logical form and prove the arguments as valid</p> <p><u>Assignments:</u> Quizzes, Tests</p>	<p>Greek: <u>Curriculum:</u> <i>Basics of Biblical Greek</i>, textbook and workbook. <i>Alpha to Omega Athanaze</i></p> <p><u>Assignments:</u> Quizzes on vocab and grammar, tests on vocab, grammar and translation, workbook pages, and parsing exercises</p> <p><u>Goals:</u> Memorize common NT Greek vocabulary; learn basic Greek grammar; translate simple NT passages. Key for the logic stage: Greek is a very logical language that forces students to look closely and think carefully and logically about details of words and sentences.</p>	<p>Rivendell Feast, Illuminated Manuscript Project, Beowulf, Logic, Gödel Logic Test II, Beowulf's arm project, Washington DC field trip, Trip to NYC, Philadelphia, or Baltimore, polyhedron model</p>
<p>Grade</p>	<p><u>Curriculum:</u></p>	<p>Algebra BC</p>	<p>Biology:</p>	<p>English Composition:</p>	<p>Latin 1:</p>	<p>Murder mystery</p>

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Grade	<u>Curriculum:</u>	Trigonometry:	Chemistry:	Rhetoric and	Latin 2/3:	Greek Olympics,

<p>10</p>	<p>Omnibus Textbook, assigned books and readings</p> <p><u>Goals:</u> Students will learn to read, discuss, and engage primary and secondary materials in theology, philosophy, history, and literature during the ancient period.</p> <p><u>Reading List Includes:</u> <i>Aeneid</i>, <i>Plato's Republic</i>, <i>Thucydides</i></p>	<p><u>Curriculum:</u> <i>Algebra & Trigonometry</i>, Paul A. Foerster</p> <p><u>Goals:</u> Exploration of the properties of trigonometric ratios and functions as well as other pre-calculus topics.</p> <p><u>Assignments:</u> Graded Homework, Quizzes, Tests, Semester Final Exams</p> <p>-OR-</p> <p>Algebra C <u>Curriculum:</u> <i>Advanced Algebra</i>, UCSMP</p> <p><u>Assignments:</u> Graded Homework, Quizzes, Tests, Semester Final Exams</p> <p><u>Goals:</u> Part 3 of a 3 year algebra sequence developing the algebraic language necessary for study in higher mathematics. Exploration of elementary functions including an introduction to trigonometric functions.</p>	<p><u>Curriculum:</u> Prentice Hall <i>Chemistry</i></p> <p><u>Goals:</u> Build competency in understanding of matter including the elements, periodic table, reactions, scientific measurement, and stoichiometry.</p> <p><u>Assignments:</u> Reading, problem-solving, memorization, worksheets, quizzes, tests</p>	<p>Systematic Theology Students learn the art of public speaking through progymnasmata in Rhetoric as well as the fundamentals of Christian theology in systematic theology</p>	<p><u>Curriculum:</u> Latin Alive! Reader</p> <p><u>Assignments:</u> Translation, composition, respond in Latin questions, tests.</p> <p><u>Goals:</u> Read and discuss unabridged Latin from various authors for a better understanding of Latin and Roman culture. Learn to scan lyric as well as epic poetry, and do literary analyses.</p> <p>Spanish II: <u>Curriculum:</u> Navegando I (ch. 9), Navegando II (chs. 1-6) <u>Assignments:</u> review Spanish I (grammar and vocabulary), homework, independent vocabulary study, quizzes (two per chapter), chapter tests, Scripture recitation, semester final exam, Hispanic geography quizzes, writing assignments <u>Goals:</u> Become proficient in the grammatical concepts and vocabulary covered over the course of the two semesters, growing in reading and writing skills</p>	<p>Trigonometry Scavenger Hunt, Washington DC field trip, Trip to NYC, Philadelphia, or Baltimore, Trigonometric Ratio Scavenger Hunt, Vector Addition Treasure Hunt, read <i>Flatland</i> by Edwin A. Abbott</p>
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<p>Grade 11</p>	<p><u>Curriculum:</u> Omnibus Textbook, assigned books and readings</p> <p><u>Goals:</u> Students will learn to read, discuss, and engage primary and secondary materials in theology, philosophy, history, and literature during the medieval period.</p> <p><u>Reading List Includes:</u> <i>City of God</i>, <i>Divine Comedy</i>, <i>Sir Gawain and the Green Knight</i></p>	<p>Calculus I: <u>Curriculum:</u> <i>Calculus: Early Transcendental Functions</i>, Larson, Hostetler, Edwards <u>Goals:</u> Introduction to limits, derivatives, integrals, and their applications, including the Disk Method. Proof of the Fundamental Theorem of Calculus. <u>Assignments:</u> Graded Homework, Quizzes, Tests, Semester Final Exams</p> <p>-OR-</p> <p>Trigonometry: <u>Curriculum:</u> <i>Algebra & Trigonometry</i>, Paul A. Foerster <u>Goals:</u> Exploration of the properties of trigonometric ratios and functions as well as other pre-calculus topics. <u>Assignments:</u> Graded Homework, Quizzes, Tests, Semester Final Exams</p> <p>-OR-</p> <p>Statistics: <u>Curriculum:</u> <i>Stats: Modeling the World</i> <u>Goals:</u> Intro to probability, measure of central tendency and dispersion, normal distribution and inference, stats in media, <u>Assignments:</u> Poster presentation, textbook exercises, quizzes, exams, investigative tasks</p>	<p>Physics: Curriculum: <i>Exploring Creation with Physics</i>, Dr. Jay L. Wile, Apologia <u>Goals:</u> Students will be introduced to the study of the workings of the universe, specifically including vector operations, kinematics and motion, Newton's laws, work and energy, periodic motion, optics, electricity, and magnetism. <u>Assignments:</u> Homework Sets, In-Class Problems, Labs, Quizzes and Tests</p> <p>-OR-</p> <p>Human Anatomy and Physiology: <u>Curriculum:</u> <i>Human Anatomy and Physiology</i> <u>Assignments:</u> Reading, assessment, questions from the text, quizzes, tests <u>Goals:</u> This college level course is designed to build appreciation for the complexity of the human body as well as an understanding of body parts and processes. Physics: Curriculum: <i>Exploring Creation</i></p>	<p>Apologetics: <u>Curriculum:</u> Materials that cover systematic theology, epistemology, logic, and evangelism</p> <p><u>Goals:</u> Learn how to defend the Christian faith</p> <p><u>Assignments:</u> Quizzes, Tests.</p> <p>-AND-</p> <p>Jr. Thesis <u>Goals:</u> Use scholarly research and professional writing skills to develop a paper that expresses one's position on a topic in a manner that is grammatically correct, logically sound, rhetorically persuasive, academically formatted, and biblically accurate.</p> <p><u>Assignments:</u> Grammar quizzes, Topic ideas, Research notes, Thesis statement, Argument outline, Rough draft, Editing exercises, Final draft, Oral presentation</p>	<p>Latin 2/3: <u>Curriculum:</u> Latin Alive! Reader</p> <p><u>Assignments:</u> Translation, composition, respond in Latin questions, tests.</p> <p><u>Goals:</u> Read and discuss unabridged Latin from various authors for a better understanding of Latin and Roman culture. Learn to scan lyric as well as epic poetry, and do literary analyses.</p> <p>Spanish III: <u>Curriculum:</u> Navegando II (chs. 7-9), Navegando III (chs. 1-3) <u>Assignments:</u> review Spanish II (grammar and vocab), homework, independent vocab study, quizzes (two per chapter), chapter tests, Scripture recitation, semester final exam, Hispanic geography quizzes, writing <u>Goals:</u> Become proficient in grammatical concepts and vocab covered over the course of the two semesters, growing in reading, writing and verbal proficiency skills</p>	<p>Jousting event, Jewish Passover dinner, Hershey Park physics trip, statistics field trip, Washington DC field trip, Trip to NYC, Philadelphia, or Baltimore, Euler line linear algebra review</p>
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<p>Grade 12</p>	<p><u>Curriculum:</u> Omnibus Textbook, assigned books and readings</p> <p><u>Goals:</u> Students will learn to read, discuss, and engage primary and secondary materials in theology, philosophy, history, and literature during the modern period.</p> <p><u>Reading List Includes:</u> <i>Anna Karenina</i>, <i>Moby Dick</i>, <i>Paradise Lost</i>, <i>Brave New World</i></p>	<p>Calculus I: <u>Curriculum:</u> <i>Calculus: Early Transcendental Functions</i>, Larson, Hostetler, Edwards</p> <p><u>Goals:</u> Introduction to limits, derivatives, integrals, and their applications, including the Disk Method. Proof of the Fundamental Theorem of Calculus.</p> <p><u>Assignments:</u> Graded Homework, Quizzes, Tests, Semester Final Exams</p> <p>OR</p> <p>Calculus 2 <u>Curriculum:</u> <i>Calculus: Early Transcendental Functions</i>, Larson, Hostetler, Edwards</p> <p><u>Goals:</u> Exploration of advanced integration techniques, applications of integration, and infinite series.</p> <p><u>Assignments:</u> Graded Homework, Quizzes, Tests, Semester Final Exams, AP Calculus BC Exam</p>	<p><i>with Physics</i>, Dr. Jay L. Wile, Apologia</p> <p><u>Goals:</u> Students will be introduced to the study of the workings of the universe, specifically including vector operations, kinematics and motion, Newton's laws, work and energy, periodic motion, optics, electricity, and magnetism.</p> <p><u>Assignments:</u> Homework Sets, In-Class Problems, Labs, Quizzes and Tests</p> <p>-OR-</p> <p>Human Anatomy and Physiology: <u>Curriculum:</u> <i>Human Anatomy and Physiology</i> <u>Assignments:</u> Reading, assessment, questions from the text, quizzes, tests <u>Goals:</u> This college level course is designed to build appreciation for the complexity of the human body as well as an understanding of body parts and processes.</p>	<p>Sr. Thesis <u>Curriculum:</u> <i>Grammar Workbook</i>, <i>A Manual for Writers</i>, <i>The Elements of Style</i></p> <p><u>Goals:</u> Learn how to write and defend a scholarly paper</p> <p><u>Assignments:</u> Writing, Editing, Presenting.</p>	<p>Latin 2/3: <u>Curriculum:</u> Latin Alive! Reader</p> <p><u>Assignments:</u> Translation, composition, respond in Latin questions, tests.</p> <p><u>Goals:</u> Read and discuss unabridged Latin from various authors for a better understanding of Latin and Roman culture. Learn to scan lyric as well as epic poetry, and do literary analyses.</p> <p>Spanish IV: <u>Curriculum:</u> Navegando III (chs. 4-10), Leyendas Latinoamericanas <u>Assignments:</u> review Spanish III (grammar and vocab), homework, independent vocab study, quizzes (two per chapter), chapter tests, Scripture recitation, semester final exam, Hispanic geography quizzes, writing assignments <u>Goals:</u> Become proficient in the grammatical concepts and vocab covered over the course of the two semesters, growing in reading fluency and</p>	<p>Senior class trip with headmaster, Sr. Roast, Hershey Park physics trip, statistics field trip, Washington DC field trip, Trip to NYC, Philadelphia, or Baltimore, proof of Euler's identity, calculus summary creative project, presentation: deceptive use of statistics in media, poster presentation: statistical study</p>
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