



Grade 9	Grade 10	Grade 11	Grade 12
<p>Geometry: Geometry focuses on the development and application of logical reasoning (proofs), constructions, and measurement throughout the study of lines, triangles, quadrilaterals, circles, similarity, transformations, trigonometry (including vectors), area, surface area, volume, and angles on circles.</p> <ul style="list-style-type: none"> Honors Geometry 	<p>Algebra 2: Algebra 2 expands the understanding of functions (including polynomial and logarithmic), applications of systems, polynomial expressions, equations, sequences, and series.</p> <ul style="list-style-type: none"> Honors Algebra 2 	<p>Pre-Calculus: Pre-calculus focuses on extensive work with all functions, analytical trigonometry (properties, graphs, and the unit circle), and polar coordinates.</p> <ul style="list-style-type: none"> AP Pre-Calculus 	<p>Statistics: Statistics explores counting principles, probability, data collection and analysis, sampling distributions, confidence intervals, hypothesis testing, Chi-Square, and linear regression.</p> <p>Calculus: Calculus examines continuous change through functions, limits, derivatives, and integrals to analyze rates of change, slopes, and accumulated quantities.</p> <p>Advanced Math Courses*:</p> <ul style="list-style-type: none"> AP Statistics AP Calculus AB AP Calculus BC Multivariable Calculus
<p>Foundations of Literature & Rhetoric I: Freshman English is an introductory course that focuses on improving students' ability to analyze texts in a sophisticated, formal manner. Students learn how to communicate their analysis effectively in writing while exploring various writing modes, such as personal reflection, literary criticism, personal narrative, creative nonfiction, and fiction. The aim is to introduce students to new analysis methods in a scholarly context.</p> <ul style="list-style-type: none"> Honors Foundations of Literature and Rhetoric I 	<p>Foundations of Literature & Rhetoric II: Sophomore English reinforces the basics of formal writing, paragraph construction, and cohesion. Students advance their syntactical sophistication through a recursive discussion and reflection process about the readings. Emphasis is on credible research, higher-level critical thinking, and practical written and verbal communication skills.</p> <ul style="list-style-type: none"> Honors Foundations of Literature and Rhetoric II 	<p>Survey of English Language & Composition: Junior English reinforces formal writing, paragraph construction, and cohesion. Students advance their syntactical sophistication through a recursive discussion and reflection process about the readings. They will read complex texts, practice previously learned writing skills, and focus more on rhetorical strategies and argumentative writing. Emphasis is on higher-order cognitive thinking skills and effective writing.</p> <ul style="list-style-type: none"> AP English Language and Composition 	<p>Survey of English Literature & Composition: Study of contemporary literature and rhetoric emphasizing close reading and composition. Through class discussions and various writing assignments, students develop rhetorical skills necessary for success in college English courses and beyond. The teacher emphasizes syntactical structure variety and provides grammar reviews to enhance the effectiveness of students' writing.</p> <ul style="list-style-type: none"> AP English Literature and Composition
<p>Biology: Biology includes a variety of topics, such as the structures and functions of cells and viruses, the growth and development of organisms, cells, tissues, and organs, nucleic acids and genetics, biological evolution, taxonomy, metabolism, and energy transfers in living organisms, living systems, homeostasis, and ecosystems and the environment.</p> <ul style="list-style-type: none"> Honors Biology 	<p>Chemistry: Chemistry includes topics such as the characteristics of matter and the use of the periodic table, atomic theory, chemical bonding, stoichiometry, gas laws, solution chemistry, and thermochemistry. Students will investigate topics through labs and direct teaching.</p> <ul style="list-style-type: none"> Honors Chemistry 	<p>Physics: Physics is an introduction to the general principles of physics in classical mechanics. Topics include kinematics—dynamics, energy, momentum, motion, fluids, elasticity and oscillations, and waves and sounds. Proficiency in algebra is recommended.</p> <ul style="list-style-type: none"> Honors Physics 	<p>Science Electives*:</p> <ul style="list-style-type: none"> Anatomy and Physiology Honors Anatomy and Physiology Forensic Science Honors Forensic Science Environmental Science Honors Environmental Science <p><i>*Science Electives are not limited to a particular grade level but are often taken concurrently with other science courses beginning Junior year</i></p> <p>Advanced Science Courses*:</p> <ul style="list-style-type: none"> AP Biology AP Chemistry AP Physics 1 AP Physics C Mechanics AP Physics C Electricity and Magnetism

** Advanced Courses are not limited to a particular grade level but rather based on prerequisites and/or recommendation*



<p>Human Geography: Human Geography focuses on location, population characteristics, language, ethnicity, education, religion, and other topics as it evaluates how people change or are changed by their environment.</p> <ul style="list-style-type: none">Honors Human GeographyAP Human Geography	<p>United States History: United States History covers themes chronologically, beginning with the Civil War and Reconstruction and continuing to the present. Students understand how one generation influences the next while adapting to a changing world.</p> <ul style="list-style-type: none">Honors U.S. HistoryAP U.S. History	<p>Public Policy: This semester-long course introduces students to the what and who behind public policy. Students write a database research paper on a topic of interest that requires an understanding of various elements that make up the creation and implementation of public policy.</p> <ul style="list-style-type: none">Honors Public Policy <p>Business Economics: This semester-long course is an introductory course to the basics of business economics. Topics covered include scarcity, supply and demand, GDP, inflation, employment, managerial economics, and international economics. Students study many of these topics in depth using case studies.</p> <ul style="list-style-type: none">Honors Business Economics	<p>United States Government: U.S. Government and Politics is a year-long introductory course exposing students to the US system of government and how it functions. Students establish an understanding of the branches of government, federalism, the federal bureaucracy, political parties, the media, and interest groups.</p> <ul style="list-style-type: none">AP U.S. Government and Politics
<p>World Language:</p> <p>Beginning Spanish/French*: These beginning courses focus on vocabulary expansion, speaking and listening skills, with increased emphasis on reading and writing skills. Cultural and geographic topics are integrated into the course.</p> <ul style="list-style-type: none">Honors Beginning SpanishHonors Beginning French <p><i>*Beginning Spanish and French are designed to serve students new to the school or who have no prior Spanish experience and returning students who have either changed languages or will benefit from further review.</i></p>	<p>World Language:</p> <ul style="list-style-type: none">Intermediate SpanishIntermediate French <p>Honors World Language:</p> <ul style="list-style-type: none">Honors Intermediate SpanishHonors Intermediate French	<p>World Language:</p> <ul style="list-style-type: none">Advanced SpanishPre-Advanced Placement SpanishAdvanced FrenchPre-Advanced Placement French <p>World Language:</p> <ul style="list-style-type: none">Conversational SpanishConversational French	<p>World Language:</p> <ul style="list-style-type: none">Conversational SpanishConversational French <p>Advanced World Language Courses*:</p> <ul style="list-style-type: none">AP Spanish Language and CultureAP Spanish LiteratureHonors Survey of French Literature and CultureAP French Language and Culture <p><i>*Advanced Courses are not limited to a particular grade level but rather based on prerequisites and/or recommendation</i></p>
<p>Research Elective - Honors Research and Innovation</p>		<p>Community Service: Students are expected to complete at least 60 hours (the number of hours is prorated based on entry year).</p>	
<p>Engineering/Technology: Technology and Design Thinking, Engineer Your World, Drone Engineering, AP Computer Science Principles, AP Computer Science Programming</p>			
<p>Library: The Oakridge Library is open to Upper School students daily for quiet or collaborative study, book check-out, or assistance from the library staff. The library offers a multitude of print and electronic resources for research and current events. Library staff members strive to make the space welcoming and assist students in their research or make suggestions for an excellent leisure-time read.</p>			
<p>Athletics: Students of varying skill levels are appropriately placed on varsity and junior varsity teams at the Upper School level. Varsity sports, except for Cheerleading and Powerlifting, compete in the Southwest Preparatory Conference. Programs offered include Cheerleading, Field Hockey, Volleyball, Cross-country, Football, Basketball, Soccer, Wrestling, Powerlifting, Swimming, Track and Field, Baseball, Softball, Tennis, and Golf.</p>			
<p>Fine Arts: A comprehensive, sequentially-developed education that views the arts as integral to overall education. Fine Arts fosters trust, nurturing problem-solving, and encouraging artistic risk-taking. It caters to those aiming for post-secondary fine arts education and students seeking personal enjoyment and expression through the arts. Increased emphasis on expectations and skill-building leads to more opportunities for group and individual competition through local and state organizations (TMEA, TPSMEA, ISAS, VASE, NTDA, and more). Courses include multiple levels of 2D Art, 3D Art, Art History, Choir, Orchestra, Acting, Technical Theater, and Multimedia Communication.</p>			