

CURRICULUM GUIDE

2021 - 22



EASTSIDE CATHOLIC

TABLE OF CONTENTS

Academic Approach 3

Accreditations and Affiliations 3

Middle School Required Courses 3

High School Courses Taken in Middle School 3

High School Graduation Requirements 4

Honors, Advanced Placement and College Credits at ECHS 5

Middle School Planning Worksheet 6

High School Planning Worksheet 7

COURSE DESCRIPTIONS

Courses Required for Graduation

English (High School) 8

Humanities (Middle School) 12

Mathematics 14

Physical Education and Health 20

Religious Studies 24

Science 30

Social Studies 36

Visual and Performing Arts 42

World Languages 52

Other Course Offerings

Academic Support 56

Business and Communication 59

Computer Science 64

General Electives 68

OUR ACADEMIC APPROACH

Eastside Catholic's sixth- through 12th-grade academic programs, along with the coordinated bell schedule between the high school and middle school, create advantages within our educational environment. This schedule allows the high school and middle school faculties to meet periodically in their academic departments to plan curriculum and develop an articulated program of study, providing specific learning objectives on which to build. Middle school students who are advanced in their studies have the advantage of taking high school courses.

Perhaps most important, there are many opportunities for students to share in the rich culture for which Eastside Catholic is known, including cross-grade connections, shared prayer and liturgy, student assemblies and mentor projects. By the time EC students graduate from our seven-year program, they have the firm academic foundation essential for successfully transitioning to a rigorous college curriculum. EC students also graduate with a strong grounding in faith and ethics — attributes that will guide them throughout their lives.

ACCREDITATIONS AND AFFILIATIONS

- Accredited by Northwest Association of Independent Schools
- Approved as a Catholic school by the Archdiocese of Seattle
- Approved by the State of Washington Office of Superintendent of Public Instruction
- Member of the Washington Federation of Independent Schools
- Member of the National Association of Independent Schools
- Member of the National Catholic Educational Association
- Member of the National Middle School Association

MIDDLE SCHOOL REQUIRED COURSES

- Humanities
- Religious Studies
- Mathematics, determined by placement and course exams
- Science
- World Languages
- Visual and Performing Arts
- Physical Education and Health

See course descriptions for more information about course options and lengths within each department.

45 hours of community service (10 hours in sixth grade, 15 hours in seventh grade and 20 hours in eighth grade).

HIGH SCHOOL COURSES TAKEN IN MIDDLE SCHOOL

Eastside Catholic Middle School offers high school level courses for middle school students. Middle school students who have successfully completed high school level courses may begin their high school classes at a more advanced level. Credits earned through courses completed in middle school do not count toward the number of departmental or overall credits that students must earn in grades 9 - 12 at Eastside Catholic High School.

HIGH SCHOOL GRADUATION REQUIREMENTS

Class of 2022 and Beyond

English, 4 years (8 credits)

Health, 0.5 years (1 credit)

Mathematics^{WSAC}, 3 years (6 credits) - minimum Algebra I, Geometry and Algebra II; 4 years are recommended for college admission

Physical Education, 1.5 years¹ (3 credits)

Religious Studies, 4 years² (8 credits)

Science, 3 years (6 credits) - physics, biology and chemistry are required; 4 years are recommended for college admission

Social Studies, 3 years (6 credits) - minimum - world history, U.S. history and American government³

Visual or Performing Arts, 2 years⁴ (4 credits)

World Language, 2 years of the same language (4 credits) - 3 or more years are recommended for college admission⁵

52 credits are required for graduation

100 hours of community service (25 hours in ninth grade, 25 hours in 10th grade, 25 hours in 11th grade and 25 hours in 12th grade)

Please note: All courses listed in this curriculum guide will be offered unless student requests for the course do not meet the established minimum or appropriate staffing is unavailable. School administration can offer alternate pathways in extenuating circumstances.

For further information regarding Washington state high school graduation requirements, four-year higher learning institution admission requirements and other recommendations, please refer to these websites:

- Washington Student Achievement Council: wsac.wa.gov
- Washington State Board of Education: sbe.wa.gov
- Advanced Placement: apstudent.collegeboard.org

Course Withdrawal Policy

A student may withdraw from a class within the first seven days of the semester without penalty. A withdrawal from a course after the first seven days will result in recording a “W” and the week in which the course is dropped on the student’s transcript. A “W” does not earn credit and is not calculated into a student’s GPA. A student may not withdraw from a class after the last day of the first quarter or, in the case of a second semester class, the last day of the third quarter.

^{WSAC} Washington State Achievement Council (WSAC) establishes state of Washington “minimum general undergraduate admission standards for four-year institutions.” Senior-year math-based quantitative course - during the senior year of high school, students must earn a credit in a math-based quantitative course, unless they complete a higher-level math course prior to senior year, such as pre-calculus or calculus.

¹ Students must take 1.5 years of fitness (PE) unless excused per RCW 28A.230.050 (physical education in high schools). All freshman must take PE 9. Up to one year of physical education may be waived upon submission of the PE Waiver form to Student Services.

² Eastside Catholic requires students to earn a religious studies credit for each semester while enrolled at EC.

³ It is a graduation requirement for all students to complete Washington State history. The principal may waive this requirement for students who have successfully completed a state history course of study in another state.

⁴ Students may substitute coursework for one year of art if other courses would better help them meet their educational and career goals.

⁵ Any world language course taken before high school does not fulfill this requirement.

HONORS, ADVANCED PLACEMENT AND COLLEGE CREDITS AT ECHS

Approximately 40 honors, college in the high school and Advanced Placement (AP) courses are offered at ECHS each year. College credits are possible by achieving specific scores on AP exams, Seattle University's Matteo Ricci in the High School Integrated Social Science and Humanities course and University of Washington in the High School courses. Counselors, faculty and administration are available to help advise students in course selection but students and their families ultimately decide on levels of rigor, certain decisions regarding course sequence and decisions on elective courses. All students are encouraged to consider enrollment in one or more AP or honors courses during each academic year.

Advanced Placement Courses*

Students taking an AP course are required to sit for the AP exams in the spring. Families will be billed directly from Eastside Catholic School for AP exam fees. Students may earn credit and/or placement at many colleges and universities in the United States and in more than 60 other countries through qualifying AP exam scores. At many of these institutions, students may earn up to a full year of college credit (sophomore standing) by acquiring the required number of qualifying AP exam scores.

Individual colleges and universities, not the College Board nor the AP Program, grant course credit and placement. Because policies vary by institution, students should obtain a college's AP policy in writing. Students can find this information in the institution's catalog, on its website or by using the AP Credit Policy Info search.

Colleges that have received an AP score report will generally notify the student during the summer of any placement, credit and/or exemption the student has earned. Students may also contact the college's Admission Office to determine the status of their AP credit and/or placement.

Seattle University's Matteo Ricci in the High School*

Senior students who successfully complete Integrated Social Sciences and Humanities (Block) earn high school requirements in social studies and religious studies. To earn the five credits of Humanities (HUMT 150: Composition, Language and Thought - Freshman Composition) and five credits of Social Science (CISS 120: Poverty in America) from Seattle University's Matteo Ricci, families are responsible for fees related to these college credits. Students earn an official Seattle University transcript for these courses. Transcript requests and the payment and fees associated with these courses need to be arranged directly by families. Transcripts will be sent directly from Seattle University, not Eastside Catholic.

University of Washington in the High School*

Through the University of Washington in the High School (UWHS) program, high school students can complete University of Washington courses at Eastside Catholic. Students and teachers use UW curriculum, activities, texts, tests and grading scales. Students earn a final grade over time; a grade does not depend on one exam. The program is open to all high school students but only students in grades 10, 11 and 12 can earn college credit. To earn University of Washington college credit, families are responsible for fees related to these college credits. Students may receive recognition for their UW work at most public and many private institutions. Transcript requests and the payment and fees associated with these courses need to be arranged directly by families. Transcripts will be sent directly from the University of Washington, not Eastside Catholic.

Workload for Honors and AP Courses

Under course listings, we have included information regarding "homework assigned" to provide students and families with a snapshot of what they might expect from each honors/AP/College in the High School course. These numbers are only estimates. Time spent on homework varies by student and by week.

**Course Fees: Some courses have additional fees for materials. Examples of course fees include but may not be limited to: fees for travel in DECA, music, speech and debate, and fees for materials in certain art classes.*

MIDDLE SCHOOL PLANNING WORKSHEET

6 th Grade	7 th Grade	8 th Grade
Humanities	Humanities	Humanities
Math <i>(based on placement test)</i>	Math	Math
Science	Science	Science
PE/Health	PE/Health (semester or year) Elective (semester) -----	PE/Health (semester or year) Elective (semester) -----
Religion (semester) Elective (semester) World Language <i>or</i> SOAR -----	Religion (semester) Elective (semester) -----	Religion (semester) Elective (semester) -----
Music 6 Band and Choir	World Language (1 year) Chinese 1A <i>or</i> Spanish 1A <i>or</i> French 1A -----	World Language (1 year) Chinese 2B <i>or</i> Spanish 2B <i>or</i> French 2B -----

- EMC students, grades 6 - 8, do not take a World Language course
- SOAR students in grades 7 - 8 choose between World Language *or* an elective
- Electives for grades 7 - 8 are:
 - Art (semester)
 - Band (year-long)
 - Choir (year-long)
 - Computer Science (semester)
 - Drama (semester)

HIGH SCHOOL PLANNING WORKSHEET

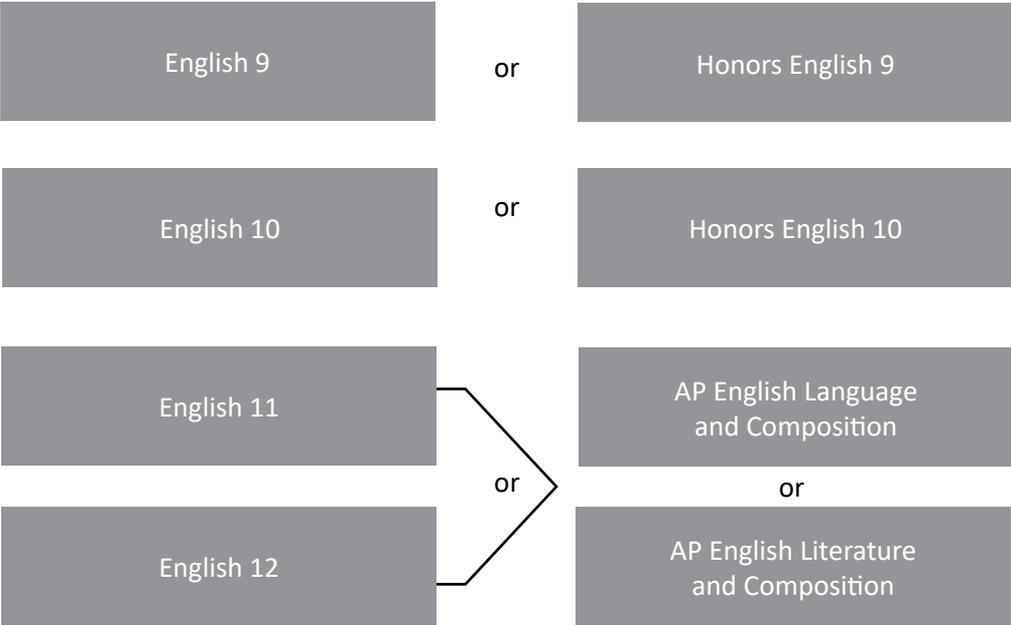
9 th Grade	10 th Grade	11 th Grade	12 th Grade
English (1 year) Eng 9 <i>or</i> Hon Eng 9	English (1 year) Eng 10 <i>or</i> Hon Eng 10	English (1 year) Eng 11 <i>or</i> AP Eng Lang <i>or</i> AP Eng Lit	English (1 year) AP Eng Lit <i>or</i> AP Eng Lang <i>or</i> Eng 12
Math (1 year) -----	Math (1 year) -----	Math (1 year) -----	Math (1 year) -----
Science (1 year) Conceptual Physics <i>or</i> Hon Conceptual Physics <i>or</i> AP Physics 1	Science (1 year)	Science (1 year)	Science (1 year) <i>or</i> Elective (1 year)
Religion 9 (1 year) World Cultures: Humanity, Revelations and the World	Religion 10 (1 year) The Mission of Jesus	Religion 11 (1 year) Life in Christ <i>or</i> Life in Christ - CML emphasis	Religion 12 (1 year) Int Soc Sci Hum <i>or</i> Intro to Catholic Social Teaching <i>and</i> Religious Studies elective -----
PE/Health (1 year) PE 9 <i>and</i> Health	Elective ----- -----	Elective ----- -----	Elective ----- -----
World Language <i>or</i> Elective ----- -----	Social Studies (1 year) World History <i>or</i> AP World History	Social Studies (1 year) US History <i>or</i> AP US History	Social Studies (1 year) AP Amer Gov <i>or</i> Int Soc Sci Hum <i>or</i> Amer Gov <i>and</i> elective -----
Elective ----- -----	Elective ----- -----	Elective ----- -----	Elective ----- -----

In addition to the subject areas shown in the grid, students are required to take the following courses:

- 2 semesters of PE elective taken any time in grades 10, 11 or 12; (may waive up to 2 semesters upon completion of the PE waiver)
- 2 years of world language (must be earned in the same language)
- 2 years of art (minimum of 1 year of visual and/or performing arts) taken any time during high school

ENGLISH

High School



ENGLISH

High school students can choose from a variety of English courses throughout their years at Eastside Catholic. The English curriculum places an emphasis on critical thinking, developed through reading rich and diverse texts, writing for a variety of purposes and audiences and engaging in discussion to create individual and shared understandings of the important ideas of what it means to be human. Students will develop the skills necessary to be effective and successful communicators in college, their careers and life. College-prep and honors courses are available for ninth and 10th grade; in 11th and 12th grade, students may select between college-prep and Advanced Placement courses, with teacher recommendation and guidance.

GRADES 9 - 12

English 9

Grade level(s):	9	
Length/credit:	full year/two English credits	
Prerequisite(s):	none	
Other information:	this course has summer reading assignments; honors placement is available; honors course has about 30 minutes of assigned reading per day in addition to 2 hours of homework per week	

English 9 provides an academic foundation in writing and critical thinking that prepares students for other subjects and future endeavors. In this course, students read, analyze, discuss and write about literature from a variety of genres focusing on the theme of the individual in relationship to society. English 9 develops and extends students' writing skills, from composing effective sentences and paragraphs to organizing and focusing essays.

English 10

Grade level(s):	10	
Length/credit:	full year/two English credits	
Prerequisite(s):	none	
Other information:	this course has summer reading assignments; honors placement is available; honors course has about 1 hour of homework per class period	

In this course, 10th grade students will further develop critical reading, effective writing and persuasive argumentation skills. Students will examine a variety of texts and media from multiple cultures around the world and study universal themes. Understanding diversity of "voice," participating in thoughtful analysis and demonstrating respect for alternate perspectives are expected in this course. Students will also read complex texts, research cultural and historic context and evaluate authors' use of stylistic devices to affect reader emotion and understanding. Multiple assignments of informal, semiformal and formal writing with MLA (Modern Language Association) citation of evidence are included in this course.

English 11

Grade level(s):	11	
Length/credit:	full year/two English credits	
Prerequisite(s):	none	
Other information:	required for students not taking AP Literature and Composition or AP Language and Composition; this course has summer reading assignments	

Students will study and analyze diverse literature of the United States, from early representations of story, to communication through contemporary media. At this grade level, students address the question: What is the relationship between the ideals of a culture and the lived experience of its members? The themes, ideals and challenges of the American experience are reflected through the fiction, nonfiction, essays, poetry and drama of varied U.S. authors from differing backgrounds. In addition to writing analytical expository and persuasive essays, students research, present and write creatively. Reflectively reading, interpreting stylistic devices and structure, analyzing bias and propaganda and using effective argumentation are significant to this course.

English 12

Grade level(s):	12	
Length/credit:	full year/two English credits	
Prerequisite(s):	none	
Other information:	required for seniors not taking AP Literature and Composition or AP Language and Composition; this course has summer reading assignments	

In this year-long course, students prepare for the expectations of college-level writing, reading and literary analysis. Students will practice analytical reading strategies and write a variety of essays in multiple genres. Time will be spent looking at successful models of varied writing styles and students will practice the writing process and work to enhance skills in self- and peer-editing.

AP English Language and Composition

Grade level(s):	11, 12	
Length/credit:	full year/two English credits	
Prerequisite(s):	none	
Other information:	AP exam required; this course has summer reading assignment and will require about 4-6 hours of homework per week	

This year-long course allows students to participate in a college freshman-level English course within the high school. Reading selections for this course are sophisticated and will include nonfiction essays, poetry, novels and drama drawn from American Literature. Students will further develop their ability to analyze written text, identify authors' rhetorical techniques and their effects on the reader and construct an analytical response to texts within a short period of time. While most texts will be derived from the American canon, this course is primarily concerned with developing arguments in writing and is not a survey of American Literature.

This course prepares students for the multiple choice and essay components of the mandatory AP English Language and Composition exam in May. Students enrolling in this course should have knowledge of basic grammar and anticipate the need for substantial independent reading. Successful completion of the course and AP exam may provide students with college credit or advanced standing as freshmen.

AP English Literature and Composition

Grade level(s):	11, 12
Length/credit:	full year/two English credits
Prerequisite(s):	none
Other information:	AP exam required; this course has summer reading assignments; about 45 minutes of homework per day



This year-long course allows students to participate in a college freshman-level English course within the high school. Reading selections for the course are sophisticated and include novels, essays, poetry and drama from British and American literature. Students will further develop their ability to analyze written text, identify authors' literary techniques and their effect on the readers and construct an analytical response to a text within a short period of time.

This course prepares students for the multiple choice and essay components of the mandatory AP English Literature and Composition exam in May. Students enrolling in this course should have knowledge of basic grammar and anticipate the need for substantial independent reading. Successful completion of the course and AP exam may provide students with college credit or advanced standing as college freshmen.

HUMANITIES

Middle School

Humanities 6

Humanities 7

Humanities 8

HUMANITIES

Humanities integrates language arts and social studies to foster critical thinking, writing, analytical reading strategies and speaking skills across the curriculum. Through integrated units of study, student learning will focus on persuasive, informational and creative writing, citing textual evidence, analyzing fictional and nonfictional texts, investigating history, research skills, studies of civics and interpretations of geography.

GRADES 6 - 8

Humanities 6

Grade level(s): 6
Length/credit: full year
Prerequisite(s): none

Students learn in integrated units that include language arts and social studies. Students develop the skills of critical thinking and collaborative learning as they engage in projects. Students read relevant cultural and historical works and write in a variety of modes and forms, including narrative, informational, literary analysis and poetry. Our social studies focus is on the ancient world, specifically Mesopotamia, ancient Egypt and ancient Greece. Readings are united under themes of community and civilization and include historical fiction to complement the integrated units of social studies.

Humanities 7

Grade level(s): 7
Length/credit: full year
Prerequisite(s): none

Students continue to refine their skills in reading, writing and communication. Reading includes literary novels related to themes in social studies and science. Through engagement in various classroom activities and projects, including collaborative learning and multimedia presentations, students develop critical thinking skills. Seventh graders read relevant cultural and historical works and write in a variety of modes and forms including narrative, informational, literary analysis, persuasive, poetry and letters. Students also analyze and examine primary and secondary sources to gain insight into medieval times. Social studies units cover the Medieval Era and include Europe, the Middle East and Japan.

Humanities 8

Grade level(s): 8
Length/credit: full year
Prerequisite(s): none

Students continue to learn in integrated units that include language arts and social studies. Eighth grade students develop skills in reading, collaborative learning, research, Modern Language Association (MLA) formatting, annotation and writing in multiple modes and forms including persuasive, informational, literary analysis, descriptive, poetry, letters, reports, notes and responses. Social studies include thematic units of U.S. history and Washington state history. Readings include historical fiction and nonfiction to complement the integrated units of study. Course meets Washington state history requirement.

MATHEMATICS

Middle School

Math Foundations

Pre-Algebra Plus

Non-Linear Algebra

Algebra I

Honors Geometry

High School

Algebra I



Geometry

or

Honors Geometry



Algebra II

or

Honors Algebra II

Financial Algebra

Precalculus

UWHS Math 120

AP Statistics

Calculus

AP Calculus (AB)

AP Calculus (BC)

MATHEMATICS

Our students live in a mathematical and technological world. To contribute and succeed in their lives, students need an understanding of math concepts, plus skill and fluency in math computation. In addition to essential math knowledge and proficiency, Eastside Catholic students learn individual accountability, critical thinking and collaborative inquiry.

At EC, all students have the opportunity to maximize intellectual growth and allow for varied career and college choices. Students may advance in the curriculum sequence as they are able. Initial placement in math courses, for both middle school and high school students, is based on previous courses completed, grades in those courses, teacher recommendation and assessment scores such as ISEE, MAP, MSP/WASL and IOWA. Additionally, some students will be required to take a placement exam available during the registration period each spring or summer. At the high school level, students must earn a grade of C- or better in each prerequisite course to advance to the next course. At the middle school level, students who do not achieve proficiency with the majority of content for their current course may be required to take a support class along with their next mathematics course in place of an elective.

ECMS students may take high school level math courses (Algebra 1, Geometry and/or Algebra II) based on recommendations from their ECMS math teacher.

GRADES 6 - 8

Math Foundations

Grade level(s):	6
Length/credit:	full year
Prerequisite(s):	none

Students develop number sense and computational fluency with fractions, decimals and percentages. Students not only focus on how to do math, but also on explaining and adapting their mathematical ideas and strategies to solve a variety of problems. Students learn how to use logical reasoning to create valid arguments to support their methods and solutions. They also create a variety of mathematical representations and geometric formulas to describe and make sense of their world.

Pre-Algebra Plus

Grade level(s):	6 - 8
Length/credit:	full year
Prerequisite(s):	none

Students develop a foundation for algebra by studying ratios, rates, operations with rational numbers and properties of the rational number system. Building on this foundation, a major portion of the course focuses on linear algebra. Students represent data from linear situations with tables, graphs and equations, and use information gained from these representations to interpret situations and solve problems. They extend their ability to create and communicate reasoned arguments to support their methods and solutions. Students also study probability and three-dimensional geometry.

Non-Linear Algebra

Grade level(s): 6 - 8
 Length/credit: full year
 Prerequisite(s): none

Students expand their understanding of linear algebra to include inequalities and systems, and then focus on non-linear algebra. Students represent data from exponential and quadratic situations with tables, graphs and equations, and use information gained from these representations to interpret situations and solve problems. They increase their ability to recognize various kinds of patterns in their world, and to use and transform equations to address a variety of objectives related to these patterns. Students enhance their ability to create and communicate reasoned arguments by writing formal technical reports and applying their mathematical knowledge and skills to the analysis of data from statistical investigations.

Algebra I

Grade level(s): 7, 8
 Length/credit: full year
 Prerequisite(s): none

Students in this course learn algebraic concepts and properties including signed numbers, linear equations and inequalities, systems of linear equations and inequalities, polynomials, radicals and exponents, factoring, quadratic equations and beginning rational expressions and equations. Students also work with tabular, graphical and functional representations of linear and quadratic functions. A review of data analysis including mean, median and mode is also included.

Honors Geometry

Grade level(s): 7, 8
 Length: full year
 Prerequisite(s): Algebra I or Non-Linear Algebra
 Other information: based on teacher placement

Students in this course will study major geometric topics including lines, planes, triangle congruence, angles, triangles and quadrilaterals, polygons, area and perimeter, right triangle trigonometry, special right triangles, surface area and volume of all common space figures and circles, sectors and arcs as well as geometric proofs. Honors students will learn compass and straight-edge constructions and more complex proofs for all major geometric concepts.

GRADES 9 - 12

Algebra I

Grade level(s): 9
 Length/credit: full year/two math credits
 Prerequisite(s): none



Students in this course study all representations of linear, quadratic and exponential functions, learn to manipulate algebraic expressions through various operations in order to solve problems, analyze slope in multiple ways—including graphically, numerically, contextually and algebraically, solve equations and inequalities through a variety of strategies, assess reasonableness of solutions, solve systems of equations and inequalities, represent arithmetic and geometric sequences, use exponential models to solve problems and compare to linear models, investigate a variety of functions (including square root, cube root, absolute value, piecewise and inverse), use function notation, apply statistical analysis to one and two-variable data, as well as differentiate between association and causation.

Geometry

Grade level(s):	9, 10	
Length/credit:	full year/two math credits	
Prerequisite(s):	Algebra I	
Other information:	honors placement is available; the honors course moves at a quicker pace, covers more content with greater depth and more difficulty and includes at least 10 minutes more homework per day	

Students in this course will study major geometric topics with extensive algebraic application. Topics include transformations, similarity and congruence, properties of plane figures, geometric theorems (including making and proving conjectures), geometric modeling, coordinate proofs, measurements of plane figures (e.g., area, perimeter and angle measure), theorems about circles, including arc lengths and areas of sectors, volume and surface area of three-dimensional shapes, tools for analyzing and measuring right triangles, general triangles, complex shapes (e.g., Pythagorean theorem, trigonometric ratios and inverse trigonometry), review of algebra including writing and solving equations and multiple representations of functions, and probability (independence and conditional probability, compound events, expected value and permutations and combinations).

Algebra II

Grade level(s):	9 - 11	
Length/credit:	full year/two math credits	
Prerequisite(s):	Geometry or Honors Geometry	
Other information:	honors placement is available; the honors course covers more content with greater depth (especially in trigonometry) and more difficulty, moves at a quicker pace and has at least 30 minutes more homework per day	

Students in this course will learn to visualize, express, interpret and describe and graph functions as well as translate between representations in the following function families: absolute value, exponential, linear, logarithmic, piecewise, polynomial, quadratic, square root and trigonometric. Students will apply multiple algebraic representations to model and solve problems presented as real world situations or simulations, solve linear or quadratic equations in one variable, systems of equations in two variables and linear systems of equations in three or more variables including solving with graphical methods, use algebra to rewrite complicated algebraic expressions and equations in more useful forms, rewrite rational expressions and arithmetic operations on polynomials, find relationships between zeros and factors, manipulate and find solutions involving complex numbers, model periodic phenomena with trigonometric functions, solve trigonometric equations and prove trigonometric identities, find sums of arithmetic and geometry series and explore concepts of randomness and bias, normal distributions, margin of error and sampling variability.

Financial Algebra: Advanced Algebra with Financial Applications

Grade level(s):	11, 12	
Length/credit:	full year/two elective or math credits	
Prerequisite(s):	Algebra II	

This course is designed to build upon prior knowledge of math concepts from other courses. This algebra-based course features real-world algebra concepts found in investing, banking, credit, income taxes, insurance and household budgeting. Step-by-step strategies will help students learn the time value of money, evaluate the best banks and credit cards, make financial decisions like buying a car or renting an apartment, calculate payments and interest on loans, invest in the stock market and build a business plan by knowing costs and profits.

Precalculus

Grade level(s): 9 - 12
 Length/credit: full year/two math credits
 Prerequisite(s): Algebra II or Honors Algebra II



This course prepares students with the mathematical skills required for the study of calculus. Building on Algebra II topics, with more rigorous algebraic manipulation, the first semester of precalculus includes an in-depth study of function properties and applications as presented in linear, quadratic and exponential form. The second semester delves more deeply into logarithmic functions, right triangle trigonometry and circular trigonometric functions. Collaborative learning and approaching problems from multiple perspectives, including numeric, algebraic, tabular and graphic representations, is heavily emphasized.

UWHS Math 120 (College-Level Precalculus)

Grade level(s): 9 - 12
 Length/credit: full year/two math credits
 Prerequisite(s): Algebra II or Honors Algebra II
 Other information: about 5-6 hours of homework per week



This extremely challenging, fast-paced college-level course prepares students with the mathematical skills required for the study of college-level calculus. Students need strong work habits and the desire to learn advanced mathematical content. Basic properties of functions and graphs, with an emphasis on linear, quadratic, trigonometric, exponential functions and their inverses, composite functions and multipart functions are covered.

A short introductory unit on sequences and series, polar form and trigonometric form of complex numbers is also included. Special emphasis is placed on multi-step problem solving to build the stamina required to solve the challenging and lengthy problems found in college-level calculus. For this reason, all practice problems, as well as all quiz and exam problems, are many-layered word problems. There are no non-word problems in this course. Expect a minimum of 5-6 hours of intense homework per week. All midterms and finals used in this course are the same or like those used on the University of Washington campus. Students in grades 10, 11 and 12 may earn five quarter credits from the UW should they choose to pay the fee.

Calculus

Grade level(s): 9 - 12
 Length/credit: full year/two math credits
 Prerequisite(s): Precalculus or UWHS Math 120



This course covers major topics from the advanced placement course at a slower pace with emphasis on concept mastery, college-level algebra and connections. Additionally, the course continues to build on and review key areas of study from precalculus. The major topics are differential and integral calculus, including topics such as limits and continuity, differentiation, the Intermediate and Mean Value Theorems, velocity and acceleration, applications of differentiation (such as related rates, optimization, curve sketching and differentials), techniques of integration and the Fundamental Theorem.

AP Statistics

Grade level(s): 9 - 12
Length/Credit: full year/two math credits
Co-requisite(s): Precalculus or UWHS Math 120
Other information: AP exam required; may be taken concurrently with Precalculus or UWHS Math 120; about 2-3 hours of homework per week



This year-long course allows students to study college-level statistics. Course study includes the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students will be introduced to four broad conceptual themes: exploring data, sampling and experimentation, probability and inference. Students will often work on projects involving the hands-on gathering and analysis of real-world data.

This course prepares students for the mandatory AP Statistics exam in May. Students enrolling in this course should anticipate the need for substantial independent work. Successful completion of the course and exam may provide students with college credit or advanced standing as college freshmen.

AP Calculus AB

Grade level(s): 9 - 12
Length/credit: full year/two math credits
Prerequisite(s): Precalculus or UWHS Math 120
Other information: AP exam required; about 4 hours of homework per week



This year-long course allows students to participate in a college freshman-level math course within the high school. Students enrolling in this course should anticipate the need for substantial independent work. Students study limits and continuity and then proceed to major topics of differential calculus, including differentiation methods, Intermediate and Mean Value Theorems, Rolle's Theorem, L'Hospital's Rule, velocity and acceleration, related rates, optimization, curve sketching and Newton's Method. Major topics in integral calculus include techniques of integration, integration by parts, Fundamental Theorem, area between curves and volumes of solids of revolution.

AP Calculus BC

Grade level(s): 10 - 12
Length/credit: full year/two math credits
Prerequisite(s): Calculus or AP Calculus AB
Other information: AP exam required; about 4 hours of homework per week



This year-long course allows students to participate in a college freshman-level math course within the high school. Students enrolling in this course should anticipate the need for substantial independent work. Students will be given a thorough review of topics covered in AP Calculus AB (techniques and applications of the derivative, techniques and applications of the definite integral and Fundamental Theorem of Calculus). In addition, topics in differential and integral calculus (including parametric, polar and vector functions), conic sections and infinite series will be covered.

PHYSICAL EDUCATION AND HEALTH

Middle School

PE and Health 6

PE and Health 7

PE and Health 8

High School

PE 9
(one semester)

Health and Wellness 9
(one semester)

Electives

Yoga

Introduction to Sports Medicine
and Athletic Training

Strength and Agility

PE Elective

Advanced Strength
and Conditioning

Contemporary Health
Studies

PHYSICAL EDUCATION AND HEALTH

Eastside Catholic's 6 -12 physical education is a planned, sequential program of curricula and instruction designed to develop the knowledge, attitude, motor skills, self-management skills and confidence needed to adopt and maintain a physically active and healthy lifestyle. In physical education courses, students learn, practice and are assessed on developmentally appropriate motor skills, social skills and knowledge as defined by national and state educational standards.

GRADES 6 - 8

Physical Education and Health

Eastside Catholic, in accordance with the Society for Health and Physical Education (SHAPE), believes that every student in our school should have the opportunity to participate in quality physical education. It is our unique role to help all students develop health-related fitness, physical competence, cognitive understanding and positive attitudes about physical activity. This allows them to acquire skills to adopt physically active and healthy lifestyles. It is important that our program provides learning experiences that fulfill each student's developmental needs, thereby improving mental alertness, academic performance and an enthusiasm for learning.

The middle school health course is directly related to our PE curriculum; active physical learning does not stop in a student's school schedule. Instead, the two concepts are merged in an academic environment. For example, during fitness testing, students not only understand what the requirements are to reach the cardiovascular fitness zone, but simultaneously they are able to set goals during PE class to physically obtain these results.

Traditional and non-traditional sports and activities are taught throughout the curriculum. From cooperative games to Ultimate Frisbee®, students can experience a new physical unit every 1-2 weeks. Both the Health and PE Curriculum follow the Washington State Health and Fitness Standards. Sixth-grade students are introduced to topics like nutrition, health and wellness, personal hygiene and understanding the fitness components and FITT principle. In seventh grade, students are introduced to topics such as mental and emotional health, environmental health, non-communicable and hereditary diseases and sexually transmitted diseases. Finally, eighth graders understand the importance of building healthy life skills, the prevention and impact of drugs and alcohol abuse, developing healthy relationships and conflict resolution.

GRADES 9 - 12

PE 9

Grade level(s):	9
Length/credit:	one semester/one PE credit
Prerequisite(s):	none
Other information:	required for all Eastside Catholic ninth grade students

PE 9 is a required course for all ninth grade students. Students develop the knowledge, attitude, motor skills, self-management skills and confidence needed to maintain a physically active and healthy lifestyle. Skills are developed for team and individual sports, basic weight training and conditioning and an appreciation for sportsmanship, teamwork and exercise in their lives.

Health and Wellness 9

Grade level(s):	9 - 12
Length/credit:	one semester/one health credit
Prerequisite(s):	none
Other information:	required for all Eastside Catholic ninth grade students

This course is one semester of health education with an emphasis on current information to help promote a positive healthy lifestyle. Major topics of study include: physical, social, mental, spiritual and emotional health, nutrition, exercise and fitness, cardiovascular disease (including heart attack and strokes and their prevention), muscular and skeletal system health, empathy, CPR and first aid, stress management, eating disorders, tobacco, drug and alcohol abuse and human sexuality.

PE Elective

Grade level(s):	10 - 12
Length/credit:	one semester/one PE elective credit
Prerequisite(s):	PE 9 and Health
Other information:	may be repeated for credit

This course engages students more deeply with instruction and skill development of basic motor skills through individual and team sports, weight lifting and conditioning. Instruction is planned to meet the needs of the individual students. The emphasis will be for students to develop and demonstrate physical skills, stamina and an interest in physical activity and overall wellness. The curriculum framework will allow every student to become a physically-educated person and understand the importance of lifelong fitness.

Introduction to Sports Medicine and Athletic Training

Grade level(s):	10 - 12
Length/credit:	one semester/one PE elective credit
Prerequisite(s):	PE 9 and Health

This course is designed to cover the basics in first aid, CPR, anatomy, biomechanics, orthopedic sports injuries and current topics in the field of sports medicine and athletic training. This class also includes hands-on lab sessions where students will learn and practice common taping techniques for athletic injuries.

Yoga

Grade level(s):	9 - 12
Length/credit:	one semester/one PE elective credit
Prerequisite(s):	none
Other information:	may be repeated for credit

This course is designed to introduce students, safely and accessibly, to the basic postures, breathing techniques and relaxation methods of yoga. Students will begin to experience the benefits of stretching, moving and breathing freely as they relieve built-up stress, learn to relax and ultimately get more out of day-to-day life. The aim of this course is to promote activity which improves mental, physical and emotional health. Students will learn how to tap the body's latent energy reserves while developing strength, flexibility and stress-reduction techniques that make connections between the mind, body and spirit. This course does not replace PE 9.

Strength and Agility

Grade level(s):	10 - 12
Length/credit:	one semester/one PE elective credit
Prerequisite(s):	PE 9 and Health
Other Information:	may be repeated for credit

This is a fitness-training course that can be custom-tailored for serious athletes and other students interested in increasing their physical potential. Students participate in a variety of weight training activities and concentrate on muscular endurance and strength.

Advanced Strength and Conditioning

Grade level(s):	10 - 12
Length/credit:	one semester/one PE elective credit
Prerequisite(s):	Strength and Agility
Other information:	may be repeated for credit

This advanced weight-training course provides an opportunity for all students interested in learning advanced fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. The curriculum covers the fundamentals of strength training, aerobic training and overall fitness training and conditioning in both individual and group activities. This course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges and develop positive behaviors in fitness, wellness and movement activity for a lifetime. Special emphasis is placed on individual advanced strength training.

Contemporary Health Studies

Grade level(s):	11, 12
Length/credit:	one semester/one PE elective credit or one health credit, if not fulfilled
Prerequisite(s):	none

Contemporary Health Studies examines how health issues impact modern society. The course will explore a broad spectrum of health education and health behavior topics, both locally and globally. Students will use scientific methodologies to examine, interpret, evaluate and apply their knowledge. Students will also learn how to find health resources for information and assistance. Specific topics will be determined by current events.

RELIGIOUS STUDIES

Middle School

Religion 6

Religion 7

Religion 8

High School

Religion 9:
World Cultures - Humanity,
Revelation and the World

Religion 10:
The Mission of Jesus

Religion 11: Life in Jesus Christ

Religion 11: CML
Life in Jesus Christ

Int Soc Sci and Hum
(Block)

Religion 12: Intro Catholic Social
Teaching
(one semester) → **and** elective

Electives

Religion 12: Contemporary
Culture, Values & Faith
(one semester)

Religion 12:
Campus Ministry Leadership
(one semester)

Religion 12: Sacred Art
and Architecture
(one semester)

Religion 12:
World Religions
(one semester)

Religion 12:
Community Service
(one semester)

RELIGIOUS STUDIES

The Religious Studies Department, reflecting the mission of the Catholic Church, encourages students to explore and grow in their faith by teaching, modeling and promoting Gospel values. We seek to balance the academic discipline of theology with formation in faith to enable students to grow in their personal and communal relationship with Jesus.

Centered on Jesus Christ as Teacher and Savior, this program provides a comprehensive curriculum appropriate for the psychological and faith readiness of each age group. The basic beliefs of Catholicism, the richness of scripture and tradition, spirituality, Sacrament, Church and challenges of Christian living are central to religious studies. Students are expected to think critically about contemporary issues guided by Catholic values and become young adults who live their faith through prayer, worship, service and social justice. Course curriculum is augmented by various Campus Ministry retreats and faith experiences, including regular opportunities for Mass.

GRADES 6 - 8

Religion 6

Grade level(s): 6
Length/credit: semester
Prerequisite(s): none

In sixth grade, we begin with a unit on Catholic Identity and the Liturgy, helping students gain a better understanding of Catholic beliefs and rituals. Students will also gain a greater familiarity with the Bible in general. The focus of this class will be on the Old Testament as the foundation for the teachings of the Catholic Church. Students will analyze key figures and lessons from the Genesis Myth and ancestor stories, the Exodus experience, the Promised Land and the time of the kings, as well as the Wisdom books. Sacred Scripture and Church Teachings provide both meaning and resources for moral decisions in a complex world. Through varied forms of personal and communal prayer and reflection, students will deepen their sense of being loved, belonging and making a difference for others. Throughout the semester, students will also learn about saints, special feast days and participate in service opportunities.

Religion 7

Grade level(s): 7
Length/credit: semester
Prerequisite(s): none

The focus of this course is Jesus in the Gospels. Throughout our studies, students learn about Jesus both as human and Divine. As we explore the birth, life, ministry, death and resurrection of Jesus, we attempt to answer the questions of “Who is Jesus?” and, “What does it mean to be a follower of Jesus?” Students are challenged to “be Jesus” to the world through relationships, leadership and community service. Students will also be introduced to Catholic saints and special feast days/seasons.

Religion 8

Grade level(s): 8
Length/credit: semester
Prerequisite(s): none

In this course, students will learn the structure and history of the Church. The primary focus of the class is identifying and describing the foundations of the Church. Students will look at the first 500 years of Church history and how they formed the foundation of the modern-day Church. Students will build upon the knowledge of the

Gospels in order to properly understand the foundations upon which the Church was built while continuing to develop their familiarity with the Bible. During this course, each student will also examine the impact of saints, Church leaders and important events that shaped Christianity. A basic introduction to ethics and morality is interwoven throughout the themes of this course.

GRADES 9-12

Religion 9: World Cultures - Humanity, Revelation and the World



Grade level(s): 9
 Length/credit: full year/two religious studies credits
 Prerequisite(s): none

In this integrated religion and history course, students will explore the history of the human search for God and the expression of the experience of God in Catholic Christianity while learning about the religions and cultures of the world. Students will learn about faith, revelation, community, culture, ideas and human development within the context of historical periods and cultures where faith traditions began while developing historical thinking and performance skills through their studies. Students will discover how religion and history inform each other and together can bring forth a greater appreciation for, and understanding of, what is Sacred. In their studies, students will encounter God’s plan for humanity, Jesus, and understand His mission through the political, social and spiritual dynamics of the first century world while recognizing how and why similar figures have appeared throughout history to respond to the climate of the time and are still regarded as significant leaders by different cultures today. This course aligns with Course 1 and Course 2 of the United States Conference of Catholic Bishops Curriculum Framework.

Religion 10: The Mission of Jesus - Paschal Mystery and Church

Grade level(s): 10
 Length/credit: full year/two religious studies credits
 Prerequisite(s): none

This course is grounded in the Paschal Mystery as the life, death and resurrection of Jesus. In the first semester, students continue an in-depth study of the Hebrew and Christian scriptures within the framework of God’s covenant with humanity, the promise of the Messiah and the fulfillment of salvation. Students explore themes of creation, covenant, conversion, salvation and redemption. Students apply scriptures to their own lives through regular reflection and exploration. The second semester is a study of the Church and how the Church’s mission is lived and realized in the Sacramental life. Students study Church development through contemporary times and examine the tensions that forged the five models of the Church. Students are challenged to view Church history through the guidance of the Holy Spirit working within the achievements and failures of its members. This course aligns with Course 3 and Course 4 of the United States Conference of Catholic Bishops Curriculum Framework.

Religion 11: Life in Jesus Christ - Sacraments, Prayer and Relationships

Grade level(s): 11
 Length/credit: full year/two religious studies credits
 Prerequisite(s): none

In the first semester, students explore the Sacraments as privileged encounters with Jesus Christ. Special emphasis is given to the Sacrament of Eucharist as the source and summit of Christian life. In the second semester, students focus on the belief that humans live in a relationship with oneself, God, others and society. From the perspective of Catholic moral teaching, students explore what it means to be Christian today focusing on interpersonal relationships. This course aligns with Courses 5 and Course 6 of the United States Conference of Catholic Bishops Curriculum Framework.

Religion 11: CML Emphasis - Life in Jesus Christ - Sacraments, Prayer and Relationships

Grade level(s):	11
Length/credit:	full year/two religious studies credits
Prerequisite(s):	none

Students who select this course cover the same topics as Religion 11 but with an emphasis on putting their faith into action and developing leadership skills through community and Campus Ministry. Students take positions of leadership for school retreats, social justice and outreach service activities, school liturgies and prayer services. Classroom lessons ground students in Sacramental theology and introduce spirituality and pastoral leadership practices. Applications of learning include servant leadership projects where students lead Campus Ministry and other community service events and serve as school leaders to help foster an Eastside Catholic community of faith and service. This course aligns with Courses 5 and 6 of the United States Conference of Catholic Bishops Curriculum Framework.

Integrated Social Science and Humanities (Block)

Grade level(s):	12
Length/credit:	full year/two-period course/two social studies credits and two religious studies credits
Prerequisite(s):	none
Other information:	no credit is given unless the entire course is completed; students are assigned one book as summer homework; course has about 1.5 hours of homework per week

POSSIBLE COLLEGE CREDIT

Integrated Social Science and Humanities integrates the study of economics, theology, government, moral decision making, college-level social science inquiry methods and persuasive writing. We have chosen readings, created projects and designed our learning communities to provide opportunities to combine a student's knowledge of facts, concepts and skills in critical thought and ethical action. Our course design reflects our belief that as critically conscious individuals we become responsible members of the world community. This course emphasizes collaboration in a pedagogical style that requires cooperative efforts among students, faculty and administration. Rooted in the belief that knowledge is inherently social in nature, this course stresses common inquiry as the basic learning process. Although academically demanding and culturally challenging, this course benefits participants by making them more active as learners, more interactive as teachers, more balanced as researchers, more effective as leaders and more responsible as individuals. Upon completion of the course, students may earn 10 credits from Seattle University's Matteo Ricci Institute.

Sacred Art and Architecture

Grade level(s):	12
Length/credit:	one semester/one religious studies elective credit
Prerequisite(s):	none

Explore the Sacred through art and architecture. In this course, students will learn about the role of art in human spirituality and explore how our cultural image of the divine impacts our experience of God. Discover the development of our modern portrait of Jesus, the role of art in faith formation prior to the spread of literacy, the intersection of religious and secular art in the Renaissance and the sacred art of other world religions, including Islam and Buddhism. Learn how humans create sacred spaces, the way community and images of God intersect through sacred space and the architecture of Catholic Cathedrals. Through this course, students will grow in their understanding of how humans imagine the divine as well as the history of religious art and architecture. Students will also explore the role of sacred art and sacred spaces in their own faith formation.

Religion 12: Introduction to Catholic Social Teaching

Grade level(s): 12
 Length/credit: one semester/one religious studies credit
 Prerequisite(s): none
 Other information: required for all seniors not taking Integrated Senior Social Science and Humanities; students taking this course must also choose a one semester religious studies elective

In 1967 Pope Paul VI wrote, "If you want Peace, work for Justice." In this semester-long course, students examine Church teachings about a just society and the connection to building the Kingdom of God. This course examines the core principles of Catholic Social Teaching and their application in contemporary society.

Religion 12: Contemporary Culture, Values and Faith

Grade level(s): 12
 Length/credit: one semester/one religious studies elective credit
 Prerequisite(s): none

The impact of contemporary American culture on faith and spirituality is central to this course. Students will explore the question of whether culture shapes beliefs or merely reflects them. The challenges of developing and maintaining personal values and morality in a consumer culture hostile to Christianity are topics of study, discussion and reflection. Through classic and contemporary films, and other media messages, students in this course attempt to understand an approach for living one's faith in the 21st Century.

Religion 12: Community & Ministry Leadership

Grade level(s): 12
 Length/credit: one semester/one religious studies elective credit
 Prerequisite(s): Religion 11: CML Emphasis or special permission from teacher

This course builds on the Religion 11 CML class by putting into action the knowledge and skills gained in Religion 11 CML and other previous Religion classes. Religion 12: CML will focus on developing missionary disciples who will use their learned skills and knowledge to serve the EC community by leading retreats and other Campus Ministry events. As students plan and execute retreats, they will develop skills needed to be a missionary disciple such as prayer, public speaking, retreat/event planning, leading small groups and growing in their personal spiritual life.

Religion 12: Community Service

Grade level(s): 12
 Length/credit: one semester/one religious studies elective credit
 Prerequisite(s): none
 Other information: this course has a limited number of spots available; students must sign up in person (no emails) in the Campus Ministry Office or with Mrs. Kittridge in Room CC6

During this semester-long course, students will provide direct service to the greater Sammamish community by volunteering their time off campus and committing to service learning. Students are required to maintain a weekly journal, participate in classroom lessons and reflections, prepare a final project based on their experience during this semester as it relates to material covered in class and present a job evaluation from the on-site supervisor.

Religion 12: World Religions

Grade level(s): 12
Length/credit: one semester/one religious studies elective credit
Prerequisite(s): none



The purpose of this course is to help students understand the way the Catholic Church relates to non-Catholic Christians and other major religious traditions of the world. Building on the foundational truth that Jesus Christ established the Catholic Church, this course will help students recognize the ways in which important spiritual truths can be found in non-Catholic Christian churches, ecclesial communities and the major world religions, including Hinduism, Buddhism, Confucianism, Taoism, Judaism and Islam. It will provide an experience of each of these faith traditions with a comparative focus for the sake of better understanding the reality of religious pluralism and encouraging collaboration between people of faith. By exploring the religions of the world, this course will prepare culturally literate global citizens, foster empathy for those of other faiths and help students understand what is unique to the Catholic faith.

SCIENCE

Middle School

Science 6

Science 7

Science 8

High School

Grade 9

Conceptual Physics

Honors Conceptual Physics

AP Physics 1

Grade 10

Biology

Honors Biology

Grade 11

Chemistry

Honors Chemistry

Electives

AP Biology

AP Chemistry

Human Anatomy
and Physiology

AP Environmental Science

Wildlife in the Modern World

AP Physics 1

AP Physics 2

AP Physics C

SCIENCE

The science curriculum provides students with a strong foundation in scientific content and the opportunity to study the laws of the natural world through methods of inquiry and scientific investigation. Students practice their knowledge and skills by using critical and analytical approaches to problem solving. Throughout academic experience in the sciences, students will develop the perspective and skills needed to analyze the role of science in their own lives and the natural world around them. All science courses are lab based. Placement in high school science courses is based on previous courses taken, grades earned in those courses and teacher recommendation. For graduation, one year of physics, chemistry and biology is required.

GRADES 6 - 8

Science 6

Grade level(s):	6
Length/credit:	full year
Prerequisite(s):	none

This course focuses on building a solid foundation in science by developing strong inquiry and critical thinking skills. The course focuses on fundamental science concepts of energy and the interaction of matter and applies these concepts to ecology and engineering. In each unit, the focus is on developing a deep understanding of the concepts and applying the concepts to real scientific issues. The science practices of modeling, investigating, analyzing data and arguing from evidence are integrated into each unit, so that students learn science by doing science.

Science 7

Grade level(s):	7
Length/credit:	full year
Prerequisite(s):	none

This course builds on the foundational knowledge and skills developed in sixth grade. Students continue to build proficiency in the science and engineering practices by conducting investigations, analyzing data, supporting claims with evidence and reasoning and designing, testing and evaluating engineering projects. Students develop conceptual knowledge by learning to solve current real-world science issues, such as evaluating how blood-doping affects body systems and developing treatments for drug-resistant malaria. Areas of study include microbiology, cells and the human body, heredity and evolution. Throughout the course, students use critical thinking and build communication skills in speaking and writing.

Science 8

Grade level(s):	8
Length/credit:	full year
Prerequisite(s):	none

Science 8 continues to build on the practices established in sixth and seventh grade. Students are actively engaged in planning, conducting and evaluating investigations, using models to explore and answer questions and using evidence and reasoning to develop and support claims. Students study Earth's systems and the impact of human activities on the Earth through units in geology, oceanography and climate sciences. Science 8 also includes two engineering units related to plate tectonics and climate change. The continued focus on critical thinking, written and oral communication skills and the practices of science ensures that students are ready for high school level science by the end of the course.

Conceptual Physics

Grade level(s): 9
 Length/credit: full year/two science credits
 Prerequisite(s): completion of, or concurrently enrolled in Algebra I; honors placement available for students who have completed Algebra and are currently enrolled in Geometry or higher math; honors Conceptual Physics coursework moves at a quicker pace and requires higher-level math skills



This course will present physics to freshman students through conceptual lab-based learning. Building on early science skills learned in middle school, students are introduced to the scientific method while studying physical principles. These principles include chemical and physical properties of matter, classical mechanics, thermodynamics and electricity.

Biology

Grade level(s): 10 - 12
 Length/credit: full year/two science credits
 Prerequisite(s): one year of high school lab science
 Other information: honors placement available; the honors course moves at a quicker pace and has about 30 minutes of additional homework per day



This course emphasizes the study of living things and their interactions with the physical environment. Students study the unity, as well as the diversity, of living organisms. Lab safety techniques, scientific method and the field of biotechnology are studied. Students will investigate the themes of scientific inquiry, ecology, evolution, cell biology, DNA, genetics, infectious disease and bioethics. Honors Biology coursework is presented at an accelerated pace and requires students to evaluate topics in more detail.

Chemistry

Grade level(s): 10 - 12
 Length/credit: full year/two science credits
 Prerequisite(s): one year of high school lab science
 Other information: honors placement available for students who have completed Algebra 2 or higher math; honors course moves at a quicker pace and requires about 30 minutes of additional homework per day



The laboratory course explores the molecular and physical world. Students study inorganic chemical reactions as they relate to matter, mass and energy. Students will apply their knowledge in directed and inquiry-based laboratory experiments. Honors chemistry coursework involves more breadth and depth of content and topics and progresses at an accelerated pace.

AP Biology

Grade level(s): 11, 12
 Length/credit: full year/two science credits
 Prerequisite(s): Biology and Chemistry; may be taken concurrently with Chemistry
 Other information: AP exam required; about 2-3 hours of homework per week;



This year-long laboratory-based course allows students to participate in a college freshman-level science class within the high school. Students enrolling in this course should anticipate the need for substantial independent work. Content closely follows the college-level text, "Campbell's Biology in Focus." Students of AP Biology are

expected to challenge conventional thinking, analyze data, discuss ideas and express thoughts in writing. In the lab portion of the course, students will conduct sophisticated experiments using advanced scientific tools and technology.

AP Chemistry

Grade level(s): 11, 12
Length/credit: full year/two science credits
Prerequisite(s): Biology and Chemistry
Other information: AP exam required; about 4 hours of homework per week



This year-long course allows students to participate in a college freshman-level science course within the high school. Students enrolling in this course should anticipate the need for substantial independent work. Content closely follows the college-level text, "Chemistry the Central Science, 14th edition." This course will challenge students to develop a deep understanding of the fundamentals of inorganic chemistry through problem solving and data analysis. Topics explored include atomic structure, bonding, chemical reactions, reaction rate, thermodynamics and equilibrium. Students will participate in a variety of guided inquiry-based labs in order to further their understanding of the content.

AP Environmental Science

Grade level(s): 11, 12
Length/credit: full year/two science credits
Prerequisite(s): two years of high school lab science: one life science and one physical science
Other information: AP exam required; about 2 hours of homework per week



AP Environmental Science is a college-level introductory science course. It is an interdisciplinary course that provides students with scientific principles, concepts and methodologies to identify and analyze natural and man-made environmental problems, to evaluate risks associated with these problems and to examine alternatives for resolving, mitigating or preventing these problems. Students will link the science to ideas in other fields such as economics and social justice. In this course, students will learn vital environmental lessons and will work on campus doing research and field work conducted by environmental scientists and engineers. This is a challenging course due to the depth of learning involved from multiple disciplines; students will be required to leave the classroom and work in the field.

Human Anatomy and Physiology

Grade level(s): 11, 12
Length/credit: full year/two science credits
Prerequisite(s): Biology



In Human Anatomy and Physiology, students study the structure and function of the human body. This laboratory course focuses on human health, disease and scientific medical research in human biology. Students enrolled in this course continue to develop their ability to understand, question, analyze and perform as scientists by designing and performing their own experiments and expressing ideas with clarity and logic.

AP Physics 1

Grade level(s):	9 - 12
Length/credit:	full year/two science credits
Prerequisite(s):	Geometry and Algebra II; may be taken concurrently with Algebra II Honors
Other information:	AP exam required; about 2 hours of homework per week



Students in this algebra-based physics course study the physical principles that govern our world. Through class discussions, demonstrations and laboratory exercises, students explore the areas of Newtonian mechanics, (including rotational motion); work, energy and power; mechanical waves and sound; and introductory, simple circuits.

AP Physics 2

Grade level(s):	10 - 12
Length/credit:	full year/two science credits
Prerequisite(s):	AP Physics 1 and Algebra II
Other information:	AP exam required; about 2 hours of homework per week



This year-long course allows students to participate in a college freshman-level science course within the high school. In AP Physics 2, students will continue the study of first-year college physics concepts begun in AP Physics 1. The course will explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic and nuclear physics. Students enrolling in this course should anticipate the need for substantial independent work. Successful completion of the course and AP exam may provide students with college credit or advanced standing as college freshmen.

AP Physics C: Mechanics

Grade level(s):	11, 12
Length/credit:	full year/two science credits
Prerequisite(s):	AP Physics 1, AP Physics 2, Calculus
Other information:	AP exam required; about 2 hours of homework per week



This course is equivalent to a calculus-based, college-level physics course appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus are used throughout the course.

UWHS ESRM 150: Wildlife in the Modern World

Grade level(s):	11, 12
Length/credit:	full year/two science credits
Prerequisite(s):	Biology



Wildlife in the Modern World focuses on major wildlife conservation issues in North America, with treatment of some global issues. Examples of topics include the conservation of large predators, effects of toxic chemicals on wildlife, old-growth wildlife, conservation of marine wildlife and recovery of the bald eagle and gray wolf.

SOCIAL STUDIES

High School

Grade 10

World History

AP World History

Grade 11

U.S. History

AP U.S. History

Grade 12

AP American Government

Int Soc Sci and Hum
(Block)

American Government
(one semester)

Electives

Law and Society
(one semester)

AP Psychology

AP Human Geography

SOCIAL STUDIES

The Social Studies Department strives to prepare students for future success by providing courses that develop a student's intellectual curiosity, inspire engagement in important social and civic issues and encourage productive and mindful world citizenship. We offer a unique variety of elective and required courses that are intellectually challenging, cater to a wide range of learning styles, help students develop the capacity to succeed in both individual and collaborative settings and foster social intelligence and the ability to understand the world through different perspectives. Courses in this department focus on the development of historical thinking skills, research, writing, media literacy and communication skills.

GRADES 9 - 12

AP Human Geography

Grade level(s): 9 - 12

Length/credit: full year/one social studies elective credit
and one general education credit

Prerequisite(s): students must be concurrently enrolled in Honors English 9

Other information: AP exam required; may be completed in grade 10, 11 or 12 in addition to core social studies courses; about 3-4 hours of homework per week



AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of the Earth's surface. Students will apply the methods and tools of geographers by employing spatial concepts and landscape analysis to study human social organization and the environmental consequences. Students engage to find answers to questions about the world around us. Students will discover how geography gives meaning to an ever-changing world by working on authentic problems in Sammamish and the larger world by using a hands-on, minds-on, problem-based learning approach. Successful completion of the course and AP exam may provide students with college credit or advanced standing as freshmen.

World History

Grade level(s): 10

Length/credit: full year/two social studies credits

Prerequisite(s): none



This course examines the basic principles of historiography and addresses varied interpretations of world history. Students build a geographic context and apply their knowledge to analyze causal factors that shaped major developments and turning points in world history. In this course, students learn and practice the historical thinking skills of primary source analysis, research, comparison, contextualization, chronological reasoning and interpretation. Themes include social, political and economic systems, interaction with the environment, cultural developments and conflict generated by differing cultural and religious beliefs, including gender, race, ethnicity issues and the challenges of discovering historical truth.

AP World History

Grade level(s): 10

Length/credit: full year/two social studies credits

Prerequisite(s): none

Other information: AP exam required; about 4-5 hours of homework per week



This year-long course allows students to participate in a college freshman-level social studies course within the high school. It offers a comprehensive narrative of world history from the Post-Classical Era to the present day.

Students will study the interconnectedness of global developments by examining changes and continuities within the structure of the following course themes: 1) interaction with the environment; 2) development and interaction of cultures; 3) state building, expansion and conflict; 4) creation, expansion and interaction of economic systems; 5) the development and transformation of social structures. Student activities are designed with the intention of developing the historical thinking skills of chronological reasoning, comparison, contextualization, crafting sound historical arguments and historical interpretation and synthesis. This course prepares students for the mandatory AP World History exam in May. Students enrolled in this course should anticipate the need for substantial independent work. Successful completion of the course and AP exam may provide students with college credit or advanced standing as freshmen.

United States History

Grade level(s): 11
 Length/credit: full year/two social studies credits
 Prerequisite(s): none



This year-long course allows students to analyze a range of concepts throughout United States history. Themes addressed in this course include multicultural America, revolution, democracy, the Civil War, economy, foreign policy and civil rights. Students evaluate relationships between key ideals and historical and current realities. Knowledge of the United States' government, law, politics and fundamental documents allow students to make decisions about local, national and international issues, and to demonstrate thoughtful, participatory citizenship.

In this course, students are challenged to grow as self-reflective critical thinkers, recognize their own assumptions and become better historians. Using an inquiry-based research approach, students are expected to evaluate resources for authority and validity and determine the bias within a text.

AP United States History

Grade level(s): 11
 Length/credit: full year/two social studies credits
 Prerequisite(s): none
 Other information: AP exam required; about 4-5 hours of homework per week



AP United States History explores the history of the United States from the first European explorations to present-day events and cultural trends. This inquiry-based course goes beyond the memorization of facts to the interpretation and analysis of historical data and writings. Students develop the critical thinking and effective communication skills necessary to participate in a democracy. In addition to the course text, students will read and annotate primary and secondary sources, which they will process through free-response questions, document-based questions, Socratic seminars and structured academic controversies. This course prepares students for the mandatory AP United States History exam in May. Students enrolled in this course should anticipate the need for substantial independent work. Successful completion of the course and exam may provide students with college credit or advanced standing as freshmen.

AP Psychology

Grade level(s): 11, 12
 Length/credit: full year/one social studies elective credit and one general education credit
 Prerequisite(s): none
 Other information: AP exam required; about 3-4 hours of homework per week



AP Psychology is a college-level course designed to introduce students to the systematic study of the behavior and mental processes of human beings. Psychology is connected to both the social sciences and the natural sciences.

As a social science, psychology explores the influences of society on individual behavior and group relationships. As a natural science, psychology looks for the biological aspects of human behavior. This is not a core social studies course but rather a social studies elective.

American Government

Grade level(s): 12
Length/credit: one semester/one social studies credit
Prerequisite(s): none
Other information: required for seniors not taking AP Government or Integrated Senior Social Science and Humanities (Block); must take an additional social studies elective



This semester-long course is a study of the complex political life of the United States, including an intense look at the framework established by the Constitution, civil rights protected by the first ten amendments and the separation and balance of government powers. Knowledge of the United States' government, law, politics and fundamental documents allows students to make decisions about local, national and international issues and to demonstrate thoughtful, participatory citizenship.

Law and Society

Grade level(s): 12
Length/credit: one semester/one social studies credit
Prerequisite(s): none
Other information: required for seniors not taking AP American Government or Integrated Senior Social Science and Humanities (Block) course and who did not take any other social studies elective (e.g., AP Human Geography, AP Psychology)



This semester-long course provides students with an introduction to the relationship between law and society, examining the social, political and historical processes that affect the creation and implementation of law. The course uses theory and history to explore such topics as the origin of law, the impact of cultural forces and historical conflicts on the creation of legal systems, the history of social movements and political change, the relationship between politics and economics, the intersection of law and current world issues and contemporary debates about morality, civil disobedience and social conflict. This is a research- and discussion-based course.

AP American Government

Grade level(s): 12
Length/credit: full year/two social studies credits
Prerequisite(s): none
Other information: AP exam required; about 1 hour of homework per week



This year-long course allows students to participate in a college freshman-level social studies course within the high school. Knowledge of the United States' government, law, politics and fundamental documents allow students to make decisions about local, national and international issues and to demonstrate thoughtful, participatory citizenship. In this course, students are challenged to grow as reflective critical thinkers, recognize their own assumptions and become better historians.

This course prepares students for the mandatory AP American Government exam in May. Students enrolling in this course should anticipate the need for substantial independent work. Successful completion of the course and AP exam may provide students with college credit or advanced standing as freshmen.

Integrated Social Science and Humanities (Block)

POSSIBLE COLLEGE CREDIT

Grade level(s):	12
Length/credit:	full year, two-period course/two social studies credits and two religious studies credits
Prerequisite(s):	none
Other information:	no credit is given unless the entire course is completed; students are assigned one book as summer homework

Integrated Social Science and Humanities integrates the study of economics, theology, government, moral decision making, college-level social science inquiry methods and persuasive writing. We have chosen readings, created projects and designed our learning communities to provide opportunities to combine a student's knowledge of facts, concepts and skills in critical thought and ethical action. Our course design reflects our belief that as critically conscious individuals we become responsible members of the world community. This course emphasizes collaboration in a pedagogical style that requires cooperative efforts among students, faculty and administration. Rooted in the belief that knowledge is inherently social in nature, this course stresses common inquiry as the basic learning process. Although academically demanding and culturally challenging, it benefits participants by making them more active as learners, more interactive as teachers, more balanced as researchers, more effective as leaders and more responsible as individuals. Upon completion of the course, students may earn ten credits from Seattle University's Matteo Ricci Institute.

VISUAL AND PERFORMING ARTS

Middle School

Music 6

Concert Band 7 - 8

Visual Arts 7 - 8

Choir 7 - 8

Drama 7 - 8

Orchestra 6 - 12

High School

Music

Concert Choir

Wind Ensemble

Jazz Ensemble
(zero period)

Percussion Ensemble
(zero period)

Beginning Guitar
(one semester)

Advanced Guitar
(one semester)

Songwriting I
(one semester)

Songwriting II
(one semester)

Orchestra
(full year)

Audio & Music
Production

Visual Arts

Ceramics
(one semester)

Advanced Ceramics
(one semester)

Digital Photography
(one semester)

Drawing & Painting
(one semester)

Advanced Drawing & Painting
(one semester)

Glass Fusing
(one semester)

Advanced Glass Fusing
(one semester)

Graphic Design
(one semester)

Drama

Beginning Acting
(one semester)

Advanced Acting
(one semester)

Technical Theater
(one semester)

Cinema & Media Studies
(one semester)

Film Production
(one semester)

Film Production 2
(one semester)

Improv
(one semester)

Advanced Placement

AP Music Theory

AP Art History

AP Art and Design

VISUAL AND PERFORMING ARTS

Education in the fine arts develops a student's aesthetic and artistic sensibilities to enhance the quality and meaning of life. Through the study of art, students develop curiosity, creativity and a spirit of wonder. Art allows individuals to appreciate the divine in the richness of the human spirit and beauty of creation. The student's unique, God-given talents will be nurtured by interacting with multiple mediums of expression and through rigorous development of artistic skills.

Note Regarding Performance Courses

Students may travel in and out of state to attend festivals and competitions. Students from these courses are eligible to participate in the Washington Music Educators' Association Northlake League and State Solo and Ensemble Festivals. Students are also eligible to audition for All-State competitions. Students may also perform with the choir for school Masses.

GRADES 6 - 8

MUSIC

Music 6

Grade level:	6
Length:	full year
Prerequisite(s):	none

This course serves every sixth grade student and will be split between instrumental music and vocal music instruction. Students will learn to play a concert band instrument, practice proper vocal techniques and develop music literacy skills. This course is team-taught by our band and choir instructors.

Concert Band

Grade level(s):	7, 8
Length:	full year
Prerequisite(s):	none

This course of study serves both beginning and experienced instrumentalists. Throughout the year, students will develop skills in reading music and successful performances with their instruments. Learning experiences include independent practice, ensemble playing in public and preparation for the next level of expertise in high school. Band instruments include flute, oboe, bassoon, clarinet, bass clarinet, saxophone, trumpet, French horn, trombone, euphonium, tuba and percussion. Enrollment in Concert Band requires a full-year commitment on the part of the student.

Choir

Grade level(s):	7, 8
Length:	full year
Prerequisite(s):	none

This is a performance-based course that allows students to sing various styles of choral music in a coed setting. Students will learn sight-singing techniques and develop music literacy skills as they relate to the assigned repertoire. This ensemble will have opportunities to perform for concerts, school liturgies and school assemblies. Students can also perform at off-campus events. No prior experience is necessary. All skill levels are welcome.

Orchestra

Grade level(s): 6 - 12
 Length: full year
 Prerequisite: string instrumental students (violin, viola, cello, bass) with previous ensemble or private instruction experience for two or more years; students are expected to have a basic understanding of music notation and rhythms
 Other information: some school-owned instruments may be supplied

This course is open to all students interested in playing a string instrument (violin, viola, cello, string bass) with a string orchestra ensemble. Students will study rhythmic études and different styles of string orchestra music, including classical, chamber, cinematic and contemporary pieces. The string orchestra will perform at concerts, school liturgies, assemblies and other school events.

DRAMA

Drama 7/8

Grade level(s): 7, 8
 Length: one semester
 Prerequisite(s): none

This course is for students who are interested in learning more about the art of theater, both on-stage and off-stage. During this course, students will develop their acting talents, as well as talents in writing, directing and stage design. The course will focus on the acting process, production process and reasons why theater arts are important.

VISUAL ARTS

Visual Arts

Grade level(s): 7, 8
 Length: one semester
 Prerequisite(s): none

Middle school art courses are designed to develop artistic confidence and serve as a foundation for future visual art studies. As students build an understanding of the elements and principles of art, they also connect with other disciplines of study, especially with humanities. Students are encouraged to experiment and develop their problem-solving skills through hands-on experiences with varied materials and techniques. Reflection and self-evaluation are incorporated in every project and are important to the students' growth and understanding of the artistic process. Participation in fine arts courses allows students to realize their potential in the arts.

MUSIC

Beginning Guitar

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	none
Other information:	course is designed for beginning students; students must supply their own acoustic guitar

Students will acquire the basic elements of music reading, theory and playing technique. Students will play in small groups, with the entire class and solo. They will learn to play melodies and chords, receiving class and individual instructions from the teacher. Students are expected to work independently at their own pace, as well as cooperatively with small groups and with the class. Completion of the course will provide players with the basic skills to become lifelong musicians.

Advanced Guitar

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	Beginning Guitar course or equivalent; students must possess the ability to read all natural notes in first position, play basic chords and demonstrate basic technical fluency
Other information:	may be repeated for credit; students must supply their own guitar

Students will increase reading skills, chord vocabulary and technical facility and will apply basic theoretical concepts to the guitar fingerboard, such as playing and spelling scales and triads. Students will have the opportunity to play and perform music in a variety of styles, including classical, jazz and popular. Students will work individually at their own pace as well as cooperatively with small groups and the entire class. Completion of this course will provide students with the necessary skills to succeed in a variety of musical situations and to appreciate various styles of music.

Songwriting I

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	students must participate in an EC music program or receive permission from the instructor

Songwriting I explores the art and discipline of writing songs that touch hearts and souls. This course will examine the work of great songwriters of various eras and genres, such as Stephen Foster, George Gershwin, Cole Porter, Smokey Robinson, Joni Mitchell, Bob Dylan, Marvin Gaye, Paul Simon, the Beatles, Bruce Springsteen, Taylor Swift, Nirvana, Kanye West, Radiohead, Amy Winehouse and Green Day. Students will expand their knowledge of the fundamentals of music and poetic devices that advance appreciation of the song form. This course will consist of weekly creative writing exercises that isolate one aspect of rhythm, melody, harmony and lyrics. Typically, this course is offered every other year.

Songwriting II

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	Songwriting I or permission of the instructor
Other information:	may be repeated for credit

Songwriting II builds on the skills of Songwriting I. Students will expand their knowledge of the fundamentals of music and poetic devices that advance appreciation of the song form. This course will involve full original songwriting projects and a collaborative recording project to document their work. Typically this course is offered every other year.

Concert Choir

Grade level(s):	9 - 12
Length/credit:	full year/two fine arts credits
Prerequisite(s):	none
Other information:	also offered zero period; may be repeated for credit; *see <i>Note Regarding Performance Courses</i> at the beginning of this section

This is a performance-oriented course for students who desire a high degree of specialized vocal performance. The Concert Choir will learn and perform a variety of choral music, using learned sight-reading and music literacy skills aligned with *Common Core Standards for Music*. Students will study proper vocal techniques and advance their music theory skills and their vocal range, if desired. Performance opportunities include seasonal concerts, choral festivals, EC liturgies, assemblies, a spring choir trip and other community events. Prior experience or ability to read music is not necessary. All skill levels are welcome. There are two sections of this course. One section is available during zero period (before school) and the other is available during the regular scheduled school day.

Wind Ensemble

Grade level(s):	9 - 12, open to middle school students by audition
Length/credit:	full year/two fine arts credits
Prerequisite(s):	wind instrumental students with previous ensemble or private instruction experience; students are expected to have a basic understanding of music notation and rhythms
Other information:	some school-owned instruments may be supplied; may be repeated for credit; *see <i>Note Regarding Performance Courses</i> at the beginning of this section

The focus of this course is woodwind, brass and percussion pedagogy. Students will study scales, rhythm études and the performance of wind ensemble literature, chamber music and contemporary music. Students in Wind Ensemble are part of the marching band during first quarter and learn parade and field marching skills. Wind Ensemble performs at seasonal concerts, EC athletic events, school functions, league festivals and community events.

Jazz Ensemble

Grade level(s):	9 - 12
Length/credit:	full year/one fine arts credit
Prerequisite(s):	audition and placement by band director; must be enrolled concurrently in Wind Ensemble; exceptions by director permission
Other information:	offered zero period only; class meets Tuesday and Friday; may be repeated for credit; *see <i>Note Regarding Performance Courses at the beginning of this section</i>

Students will explore standard jazz styles and literature. Instrumentation is saxophones, trumpets, trombones, bass, guitar, piano and drums. Jazz Ensemble performs at football games, seasonal concerts, jazz festivals such as the Lionel Hampton Festival in Idaho, school functions and other community events.

Orchestra

Grade level(s):	6 - 12
Length/credit:	full year/two fine arts credits
Prerequisite:	string instrumental students (violin, viola, cello, bass) with previous ensemble or private instruction or experience for two or more years; students are expected to have a basic understanding of music notation and rhythms
Other information:	some school-owned instruments may be supplied

The focus of this course is string orchestra pedagogy. Students will study rhythmic études as well as different styles of string orchestra music including classical, chamber, cinematic and contemporary pieces.

Percussion Ensemble

Grade level(s):	9 - 12, open to middle school students by audition
Length/credit:	full year/one fine arts credit
Prerequisite(s):	basic understanding of music notation and rhythms; instructor may require an entrance theory assessment for acceptance into this course
Other information:	offered zero period only; class meets on Monday and Wednesday; some school-owned instruments may be supplied; may be repeated for credit; *see <i>Note Regarding Performance Courses</i> at the beginning of this section

This is a performance-based course in which students perform as the percussion section for the concert band and marching band, as well as performing literature specifically written for the percussion ensemble genre. Latin and African music, as well as transcriptions of orchestral works and contemporary original literature, are all part of the repertoire. Students will be exposed to rudimental snare technique, mallet percussion (xylophone, marimba, vibraphone), auxiliary percussion and world percussion instruments. Percussion Ensemble performs at seasonal concerts, school functions and Washington Music Educators' Association Northlake League festivals.

Audio and Music Production

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	none

This course encourages students to experiment with various aspects of audio and music, including hip-hop beats, EDM tracks, movie sound effects, multi-track recording and DJ scratching. No experience with musical notation is required. Each unit involves listening and analysis, followed by hands-on projects. Students will learn about the terminology, practical approaches and emotional impact of sound in live recording, multitrack studio recording and movies. The class is primarily technology-driven, utilizing software such as ProTools First® and Audacity®. The course is designed for students who are interested in sound and music but do not play traditional instruments, as well as music students wanting to learn more about resources in modern audio technology.

AP Music Theory

Grade level(s):	11, 12	POSSIBLE COLLEGE CREDIT
Length/credit:	full year/two fine arts credits	
Prerequisite(s):	basic skills in reading musical notation and rhythms are required; instructor may require an entrance theory assessment for acceptance into this course	
Other information:	AP exam required	

This year-long course allows students to participate in a college freshman-level music course in high school. The focus of this course is harmonic and melodic music theory, sight singing and ear training. Students are expected to work effectively both independently and in cooperative groups. This course prepares students for the mandatory AP Music Theory exam in May. Successful completion of the course and exam may provide students with college credit or advanced standing as freshmen. Typically this course is offered every other year.

VISUAL ARTS

Ceramics

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	none

This course is designed to give students in-depth knowledge of clay use, including hand-building techniques, wheel-thrown projects, firing, kiln use and clay and glaze production. We begin with the basics of a pinch pot and continue with molds, coiling and sculpture projects.

Advanced Ceramics

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	Ceramics
Other information:	may be repeated for credit

For students who have already taken Ceramics and are interested in continuing to learn the fundamentals and skills of pottery, Advanced Ceramics allows students to work on independent projects as well as specific assignments, such as historical mask making and creating a ceramic pitcher.

Drawing and Painting

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	none

Students will learn to draw and paint using different methods, techniques and media. Students will work with the elements of art and principles of design to complete assignments throughout the semester. Assignments include the use of colored pencil, graphite pencil, watercolor, print making and much more.

Advanced Drawing and Painting

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	Drawing and Painting
Other information:	may be repeated for credit

Advanced Drawing and Painting is for students who have completed Drawing and Painting and wish to further develop their technical and artistic skills. In this course, students will explore additional two-dimensional media, such as acrylic paint, pastels and charcoal, while exploring ideas in their artwork.

Graphic Design

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	none

This course is designed to introduce students to the principles of clean design and the application of those principles through creating projects using Adobe® Photoshop®, InDesign® and Illustrator®. Typical projects involve advertising and newsletter layouts, layered images in Photoshop® and working with text and fonts. Student independence and time management are key to this course, as all work must be completed in class.

Glass Fusing

Grade level(s):	11, 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	none
Other information:	there is a course fee of \$50

Glass Fusing provides students with a higher knowledge of design elements, including balance, contrast, emphasis, movement, pattern, rhythm and unity, while learning the mathematics and chemistry involved in the firing and forming of each glass project. Each student will work with glass pieces to manipulate form and space in order to create beautiful works of art.

Advanced Glass Fusing

Grade level(s):	11, 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	Glass Fusing
Other information:	may be repeated for credit; there is a course fee of \$50

This advanced course gives students the ability to further explore the art of glass by working on more advanced projects and lessons. Advanced Glass Fusing gives students a greater knowledge of design elements, including balance, contrast, emphasis, movement, pattern, rhythm and unity, while learning the mathematics and chemistry involved in the firing and forming of each glass project.

Digital Photography

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	none
Other information:	personal digital camera with "manual mode" required; there is a \$50 course fee

Digital Photography teaches the principles of good composition, lighting and balance in order to create exceptional images. On the technical side, students learn about the specific features of their own digital cameras and how to finalize their images for either print or electronic output using Adobe® Photoshop®. Student independence and time management are key to this course, as all work must be completed in class.

AP Art and Design

Grade level(s):	10 - 12	POSSIBLE COLLEGE CREDIT
Length/credit:	full year/two fine arts credits	
Prerequisite(s):	Drawing and Painting and Advanced Drawing and Painting or with teacher permission	
Other information:	AP exam required, students must complete drawing exercises over the summer and will have about 1 hour of homework per week	

AP Art and Design is a year-long, college-level intensive study course which emphasizes creating a 2D portfolio that expresses the student's own individual style and visual language. Students will learn the elements of a formal critique and will learn to constructively discuss the critical aspects of the artwork presented in class. Students can choose to concentrate on photography, drawing, painting, design and more. Each student will be expected to complete a portfolio for the AP exam in May and contribute to art exhibits throughout the year.

AP Art History

Grade level(s): 9 - 12
 Length/credit: full year/two fine arts credits
 Prerequisite(s): none
 Other information: AP exam required, about 3 hours of homework per week

POSSIBLE COLLEGE CREDIT

This course is equivalent to an introductory college course in art history. No prior experience in the history of art is required. Students will pursue an understanding of architecture, sculpture, painting and other art forms within historical and cultural contexts. Ancient Near East, Greek, Roman, European and American traditions will constitute 90 percent of the focus of this course. Typically this course is offered every other year.

DRAMA

Beginning Acting

Grade level(s): 9 - 12
 Length/Credit: one semester/one fine arts credit
 Prerequisite: none

This course is an introduction to drama as it relates to the craft of acting. Students will engage in structured acting activities and exercises which will create a solid foundation and understanding on how to build dynamic stage characters and relationships. In this active class, students will participate in daily activities designed to awaken the actor within and gain awareness of one’s own voice and movement. In addition to ongoing daily acting exercises, units of study will include pantomime, improvisation, monologue and scene work. The class will culminate with a collaborative one-act performance for an invited audience. This class is a prerequisite for the Improv course.

Advanced Acting

Grade level(s): 9 - 12
 Length/credit: one semester/one fine arts credit
 Prerequisite(s): Beginning Acting or permission from instructor
 Other information: may be repeated for credit

This course explores acting principles and techniques on a deeper level. The class will focus on scene study, script analysis, character development, directing, blocking and stage composition. In addition to the above, students will look at theatrical works and actors who have profoundly impacted the craft of acting. A final performance project will showcase actors’ ability before an invited audience.

Improv

Grade level(s): 9 - 12
 Length/credit: one semester/one fine arts credit
 Prerequisite(s): Beginning Acting

Exercises in this class will give students tools for creating without a prepared text. This class uses techniques derived from Viola Spolin and requires daily performances. Students will learn to develop characterizations through scene work, learn how to tell a story, explore narrative structure and what it means to give and take focus during performance. In addition to the above, students will engage in exercises related to movement, voice control and awareness to the acting space.

Film Production I/Film Production II

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	Film Production 1 is a prerequisite for Film Production II
Other information:	Students must purchase the book "The Bare Bones Camera Course for Film and Video" by Tom Schroepel

This course is intended for the student who would like to become skilled in both understanding and making films. The class will study and analyze film history, look at historical and popular films and explore techniques famous directors have contributed to the craft of filmmaking. Students will study how a director creates and communicates meaning using the language of film. Students will work collaboratively to develop creative and purposeful films through writing, planning, directing, shooting, editing and producing their own films. This class requires students to be sufficiently computer literate to edit and present projects.

Cinema and Media Studies

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	none
Other information:	may be repeated for credit; students must purchase the novel "The Road" by Cormack McCarthy

Students will analyze the main genres of film and will examine the major industrial, technological, aesthetic, and cultural developments of this art form. Genres include crime, action, comedy, musicals, science fiction, war, westerns and epics/historical. Topics include the invention and evolution of motion pictures, the establishment and demise of the American studio system, the impact of culture upon film – and film upon culture, the Hollywood blockbuster and current trends and innovations in film distribution.

Technical Theater

Grade level(s):	9 - 12
Length/credit:	one semester/one fine arts credit
Prerequisite(s):	none
Other information:	may be repeated for credit; students must purchase the text Technical Theatre for Non Technical People, Third Edition, Drew Campbell

Students in this course will gain skills in the major areas of theater technology and production. Behind the scenes stage experience and leadership skills will be gained through involvement in one production during the school year. Set design and construction, lighting and sound, running crew responsibilities, make-up and costumes, stage management, prop construction and management will be emphasized.

WORLD LANGUAGES

Middle School

World Languages
Grade 6

Chinese Level 1A
French Level 1A
Spanish Level 1A
Grades 7, 8

Chinese Level 1B
French Level 1B
Spanish Level 1B
Grades 7, 8

High School

Chinese Level I
French Level I
Spanish Level I

American Sign Language
Level I

Chinese Level II
French Level II
Spanish Level II

American Sign Language
Level II

Chinese Level III
Spanish Level III

UWHS Spanish 103
UWHS French 103

American Sign Language
Level III

Chinese Level IV
French Level IV

UWHS Spanish 201

AP Chinese
AP French
AP Spanish

Spanish Level V

WORLD LANGUAGES

World language courses at Eastside Catholic School focus on five areas of language learning: speaking, listening, reading, writing and cultural knowledge. Students who can communicate in languages other than English gain knowledge and understanding of other cultures and make connections with other disciplines, languages, cultures and communities around the world. Two consecutive years of study of one language at the high school level is required for graduation from ECHS (this does not count world language courses taken at ECMS). Placement for middle and high school students with previous foreign language experience is determined by a placement test taken prior to final scheduling of courses for the coming year. Students who attended ECMS and are continuing to study at ECHS will register based on the middle school world language teacher recommendation. At the high school level, students must earn a grade of C- or better in each prerequisite course to advance to the next course.

GRADES 6 - 8

World Languages

Grade level(s):	6
Length:	one semester
Prerequisite(s):	none

This course introduces students to the languages offered at Eastside Catholic, in order to build a foundation in the study of world language and culture. Students will explore Spanish, French and Chinese languages and cultures. For each of these languages, students will be introduced to the sound systems, basic greetings, vocabulary, conversational phrases of the language and the geography and culture of locations in which each language is spoken. The focus of the course is to allow students to be better informed when choosing a language to study after sixth grade.

Chinese, French, Spanish 1A and 1B

Grade level(s):	7, 8
Length:	two-year sequence
Prerequisite(s):	none

In this two-year sequence, students continue to develop cultural knowledge, sensitivity and appreciation for other people and their practices. Students expand their linguistic knowledge through further study of language and culture. Instruction develops communication accuracy and fluency in all four skills (reading, writing, speaking and listening) through direct instruction and regular communication practice. Students discover and develop connections with other disciplines and participate in integrated studies throughout the year.

GRADES 9 - 12

American Sign Language I

Grade level(s):	9 - 12
Length/credit:	full year/two world language credits
Prerequisite(s):	none



This course is an introduction to American Sign Language, which is the native language of Deaf people in the United States and several other countries. Students in this course will learn how to sign sentences using basic vocabulary, learn fingerspelling and receive a basic overview of Deaf history. Upon completion of this course, students may receive credits from Seattle Central College. These credits are transferrable to most U.S. colleges.

American Sign Language Level II

Grade level(s): 9 - 12
 Length/credit: full year/two world language credits
 Prerequisite(s): American Sign Language I



This is an intermediate course in American Sign Language, which is the native language of Deaf people in the United States and several other countries. Students in this course will learn how to sign complex sentences, enhance their knowledge of ASL vocabulary, and explore the intricacies of Deaf culture. Upon completion of this course, students may receive credits from Seattle Central College. These credits will be transferrable to most U.S. colleges.

American Sign Language Level III

Grade level(s): 9 - 12
 Length/credit: full year/two world language credits
 Prerequisite(s): American Sign Language II



This is an advanced course in American Sign Language – which is the native language of Deaf people in the United States and several other countries. Students in this course will use their knowledge of ASL vocabulary and sentence structure to hold complex conversations, tell stories and convey viewpoints. Special emphasis will be put on potential job pathways that utilize ASL skills. Upon completion of this course, students may receive credits from Seattle Central College. These credits will be transferrable to most U.S. colleges.

Chinese, French, Spanish Level I

Grade level(s): 9, 10
 Length/credit: full year/two world language credits
 Prerequisite(s): none



Students communicate using basic vocabulary, grammar and structures. Students expand their linguistic knowledge through further study of world cultures. The four skills of listening, speaking, reading and writing are emphasized to promote communicative proficiency. Students are introduced to the contemporary culture and diversity of the world where Chinese, French and Spanish languages are spoken.

Chinese, French, Spanish Level II

Grade level(s): 9 - 12
 Length/credit: full year/two world language credits
 Prerequisite(s): Chinese, French or Spanish Level I or by placement



Students continue to build on the skills and cultural knowledge introduced in Level I with increased emphasis on speaking and writing. Instruction in the target language promotes communication accuracy and gives students the opportunity to develop their proficiency at a higher level. In addition to being exposed to comprehensible input, students work on expanding their interpretive listening, reading and writing skills.

Chinese, Spanish Level III

Grade level(s): 10 - 12
 Length/credit: full year/two world language credits
 Prerequisite(s): Chinese or Spanish Level II or by placement



Students continue their study of language through literature, current events and conversation. They interact and communicate in real-life situations using the target language and authentic cultural behaviors. Students are introduced to the art, music, literature, history, current events and cultural traditions of Chinese- or Spanish-speaking countries.

UWHS French 103, UWHS Spanish 103

Grade level(s): 9 - 12
 Length/credit: full year/two world language credits
 Prerequisite(s): French II or Spanish II, or by placement
 Other information: about 3-3.5 hours of homework per week



These courses include all areas of language learning (speaking, listening, reading, writing, culture) using the University of

Washington curriculum, activities, text, tests and grading scale. Upon successful completion of this course and payment of UWHS fees, students may earn credit for French 103/Spanish 103. Credits are transferable to most U.S. colleges. Credit is only available to 10th, 11th and 12th graders. Visit uwhs.uw.edu for more information.

UWHS Spanish 201

Grade level(s): 10 - 12
Length/credit: full year/two world language credits
Prerequisite(s): UWHS Spanish 103, or by placement
Other information: about 3-3.5 hours of homework per week



Students continue their study of language through literature, current events and conversation. They interact and communicate in real-life situations using the target language and authentic cultural behaviors. Students are introduced to the art, music, literature, history, current events and cultural traditions of Spanish-speaking countries.

This course includes all areas of language learning (speaking, listening, reading, writing and knowledge of culture) using the University of Washington curriculum, activities, text, tests and grading scale. Upon successful completion of this course and payment of UWHS fees, students may earn credit for Spanish 201. Credits are transferable to most U.S. colleges. Credit is only available to 10th, 11th and 12th graders. More information can be found on the UW website at uwhs.uw.edu.

Chinese, French, Level IV

Grade level(s): 10 - 12
Length/credit: full year/two world language credits
Prerequisite(s): Chinese Level III or French UWHS 103 or by placement



Students continue their study of language through literature, current events and conversation. They interact and communicate in real-life situations using the target language and authentic cultural behaviors. Students are introduced to the art, music, literature, history, current events and cultural traditions of Chinese- and French-speaking countries.

AP Chinese, AP French, AP Spanish

Grade level(s): 11, 12
Length/credit: full year/two world language credits
Prerequisite(s): Chinese IV, French III/Spanish III or UWHS French/Spanish 103 or by placement
Other information: AP exam required; AP French has summer assignments; AP French requires about 45 minutes of homework per week; AP Spanish and AP Chinese each require about 30 minutes of homework per day



These year-long courses allow students to participate in a demanding, college-level Chinese, French or Spanish course in high school. Students continue their study of language through literature, current events and conversation. This course prepares students for the mandatory AP exams in May. Students enrolling in this course should anticipate the need for substantial independent work. Successful completion of the course and exam may provide students with college credit or advanced standing as college freshmen.

Spanish, Level V

Grade level(s): 11, 12
Length/credit: full year/two world language credits
Prerequisite(s): AP Spanish or permission of instructor; about 30 minutes of homework per day



Spanish Level V explores culture, literature, art, geography, history and everyday life of Spanish speaking countries through the use of authentic written and audio sources. The class is conducted entirely in Spanish. Students complete a major project at the end of each unit. Some work is independent study and student-directed.

ACADEMIC SUPPORT (BY RECOMMENDATION ONLY)

Middle School

English/Math (EMC) Class 6

Study Skills (SOAR)
Grades 6 - 8

English/Math (EMC) Class 7

English/Math (EMC) Class 8

High School

Academic Resources
Grades 9 -12

Algebra Support
Grade 9

ACADEMIC SUPPORT

The Eastside Catholic learning community is founded on the Touchstones of Academic Excellence, Relationships and Servant Leadership. Recognizing that students enter Eastside Catholic with varying levels of academic knowledge and learning styles, the faculty provides students with an opportunity to develop study strategies, content understanding and academic skills so students can meet their potential.

GRADES 6 - 8

English/Math Class (EMC)

Grade level(s): 6 - 8
Length: full year
Prerequisite(s): Student Learning Team review; placement by school administration

English/Math Class (EMC) supports students with recognized learning gaps in English and/or mathematics. The EMC class is not designed to address severe learning disabilities or to provide curriculum modifications. Using sequential materials that parallel general education curriculum, EMC teachers may provide additional instruction, homework assistance or other aid to meet the needs of individual students. EMC students develop new English and math understanding within a small group and increase their potential for success in middle and high school.

Student placement in EMC is reviewed at the end of each school year. This course is taken in place of the student's middle school world language class.

Study Skills (SOAR)

Grade level(s): 6 - 8
Length: semester/full year
Prerequisite(s): Students can select SOAR as an elective in sixth grade. Some student placements are made by Student Learning Team review or school administration for grades 6 - 8.
Other Information: Length in program evaluated at semester based on student progress

This course is designed for students to build skills in organization, work completion, test taking strategies and learning strategies that will help them reach their potential as a learner in all of their classes both in and outside of the classroom.

GRADES 9 - 12

Academic Resources

Grade level(s): 9 - 12
Length/credit: full year/two general elective credits
Prerequisite(s): This course is reserved for students with diagnosed learning challenges or who otherwise qualify based on their Eastside Catholic student accommodation plan (SAP)

This course is designed to teach and reinforce basic study skills. It is also designed to support students in their core courses by incorporating a guided study session. During the guided study time, students have the opportunity to work with a teacher or peer tutor on an individual or small-group basis. Weekly, the course includes opportunities for goal setting, assistance with organization and support in tracking homework assignments. Students in this course earn a letter grade.

Algebra Support

Grade level(s):	9
Length/credit:	full year/two elective credits
Prerequisite(s):	students are placed by assessment scores and/or teacher recommendation
Other information:	course is graded on a pass/fail system; placement by either school administrator or Math Department; must be taken concurrently with Algebra I; does not fulfill math graduation requirement

Eastside Catholic feels strongly that algebraic competence is fundamental to both high school and college math success. We recognize, however, not all students are ready to independently take on the rigors of a high school algebra course. This class is for students who need more individualized attention. This class uses sequential materials that parallel each student's current mathematics course. Algebra Support students develop new math understandings, both individually and within small groups, increasing student's potential for success in all future math courses.

Study Skills

Grade level(s):	9-12
Length/credit:	one semester/one elective
Prerequisite(s):	open to any student wanting more structured organizational support; good for students who want to develop their organization, time-management and self-advocacy skills
Other information:	counts as an elective credit

Study Skills is a full-year, elective credit class for students who would benefit from support to develop their organization strategies, work completion, test-taking strategies and learning strategies. Any student who wishes to improve their study skills may enroll in this course. This course is designed to teach and reinforce basic study skills and support students in their core courses by incorporating a guided study session. Students can work with a teacher or peer tutor on an individual or small-group basis, during the guided study time. The course includes weekly opportunities for goal setting, assistance with organization and support in tracking homework assignments. Students in this course earn a letter grade. Students may take this course all four years of high school.

BUSINESS AND COMMUNICATION

Middle School

Speech and Debate

High School

Journalism
(one semester)

Marketing I

Marketing II /
Entrepreneurial Studies

Marketing III /
Entrepreneurial Studies

Yearbook I / II

Speech and Debate
(one semester)

Advanced Speech and Debate
(one semester)

Accounting I
(one semester)

Accounting II
(one semester)

Financial Algebra

BUSINESS AND COMMUNICATION

Business and Communication instructors will provide real-world, relevant and challenging academic experiences in a caring, compassionate and safe environment. Our goal is to develop lifelong learners that are prepared for post-secondary experiences and eventually transition to become productive and responsible citizens. We will provide creative learning experiences that will equip our students with skills in emerging technologies and provide leadership opportunities through student organizations.

Challenging coursework is designed to motivate students to exert time and effort in mastering concepts necessary for success in a global economy. Productive and responsible citizens are individuals who, through well designed lessons, will understand what 21st century skills and workplace competencies mean and will be able to apply them to a variety of situations. High expectations will promote the persistence of their time and effort required to master the concepts of the skills we expect students to demonstrate. Emerging technologies represent contemporary advances, innovations and business models in a variety of fields.

GRADES 6 - 8

Speech and Debate

Grade level(s):	8
Length/credit:	one semester
Prerequisite(s):	none
Other information:	this is a high school course

Interested eighth graders may elect to participate in the high school Speech and Debate course. Please be aware that this course requires research, writing, public speaking and collaboration with high school students. Students will study the fundamentals of public speaking, rhetoric and argumentation through formal speech and debate events. This course is designed to provide students with an introduction to speaking persuasively in a variety of contexts, including formal oratory, debates and a mock congress. Students will practice analyzing arguments for their internal structure and logic. This course will effectively prepare students for speech and debate competition.

GRADES 9 - 12

Journalism

Grade level(s):	9 - 12
Length/credit:	one semester/one elective credit
Prerequisite(s):	ninth graders must be concurrently enrolled in Honors English 9
Other information:	may be repeated for credit

Journalism is a course designed for students interested in newspaper, web and broadcast journalism. Students will learn the fundamentals of news, contemporary media and ethical responsibilities of journalists, as well as feature, editorial and sports writing. In this course, students will develop, write and edit the monthly school newspaper for both print and online editions. Responsibilities include story development and composition, revisions, photography and newspaper layout; ultimate editorial approval is held by school administration. Students will also be responsible for maintaining and editing the website, social media and podcast.

Speech and Debate

Grade level(s):	9 - 12
Length/credit:	one semester/one elective credit
Prerequisite (s):	none
Other information:	may be repeated for credit

Students will study the fundamentals of public speaking and argumentation through participation in formal speech and debate events. This course is designed to give students an introduction to speaking persuasively in a variety of contexts, including formal oratory, debates and a mock congress. The workshop format allows students to learn by doing, receiving and acting on feedback, and reflecting on their successes and challenges for continued growth. This course will effectively prepare students for speech and debate competition.

Advanced Speech and Debate

Grade level(s):	9 - 12
Length/credit:	one semester/one elective credit
Prerequisite(s):	Speech and Debate
Other information:	participation in tournaments as part of the EC Speech and Debate team is expected of students enrolled in this course

Students will hone existing skills in public speaking, research and debate while focusing on competitive speech and debate events. This course runs as an independent study with students offering leadership for the novice class and working on developing their own cases and speeches for competition. Students are required to participate in at least six tournaments during the semester, competing regularly in both a speech event and a debate event. Students engage in one-on-one coaching during community periods and offer peer-coaching and collaboration during class time.

Yearbook I/Yearbook II

Grade level(s):	9 - 12
Length/credit:	full year/two elective credits
Prerequisite(s):	none
Other information:	editorial staff is selected from students enrolling in Yearbook II; may be repeated for credit



Yearbook is a year-long course in which students receive real-world publishing experience. Students produce, design and manage the layout of the EC yearbook. This includes learning about principles of design, photography and journalism. It is a requirement that students commit to working both in class and after school to meet production deadlines.

Marketing I

Grade level(s):	9 - 12 (twelfth grade students with instructor permission)
Length/credit:	full year/two elective credits
Prerequisite(s):	none
Other information:	time out of class is required for field trips and leadership activities, including fundraising which is required to supplement DECA competition fees



In this year-long course, students learn the foundations and functions of marketing, including basic economics, product sales and promotion and the role of social media in marketing and advanced communication skills. Students will learn small business operations by staffing the Eastside Catholic student store. Students will compete in either a case study or a marketing representative DECA event.

Marketing II/Entrepreneurial Studies

Grade level(s):	10 - 12
Length/credit:	full year/two elective credits
Prerequisite(s):	Marketing I
Other information:	time out of class is required for field trips and leadership activities, including fundraising, which is required to supplement DECA competition fees

This year-long course offers advanced marketing students the opportunity to create a business plan based on sound marketing research and new product/service development. Students utilize the project management framework to ensure the business plans success. Students serve as leaders for the Eastside Catholic DECA organization and manage the operations of the student store. Students compete in DECA case study competitions and project events.

Marketing III/Entrepreneurial Studies

Grade level(s):	11, 12
Length/credit:	full year/two elective credits
Prerequisite(s):	Marketing II
Other information:	time out of class is required for field trips and leadership activities, including fundraising which is required to supplement DECA competition fees

This year-long capstone course focuses on the construction and implementation based on a foundation of project management, of an entrepreneurial business proposal including detailed marketing research and sound knowledge of business and marketing strategies. Alternatively, students may complete a capstone DECA chapter project or similar advanced marketing event.

Accounting I

Grade level(s):	10 - 12
Length/credit:	one semester/one elective credit
Prerequisite(s):	none

Accounting is a semester-long skill-level course valuable to all students pursuing a background in business, marketing and management. This introductory course focuses on managerial accounting. Skills learned are problem solving, critical thinking and the use of business technology. The course covers the accounting process, financial reporting, accounting principles (GAAP) and the interpretation and use of financial accounting data for a service business organized as a sole proprietorship.

Accounting II

Grade level(s):	10 - 12
Length/credit:	one semester/one elective credit
Prerequisite(s):	Accounting I

This semester-long course is a continuation of Accounting I, focusing on financial accounting. Skills learned are problem solving, critical thinking and the use of business technology. The course covers the accounting process, financial reporting, accounting principles (GAAP) and the interpretation and use of financial accounting data for a merchandising business organized as a corporation. Business ethics will be covered in this course.

Financial Algebra: Advanced Algebra with Financial Applications

Grade level(s): 11, 12
Length/credit: full year/two elective or math credits
Prerequisite(s): Algebra II

This course is designed to build upon prior knowledge of math concepts from other courses. This algebra-based course features real-world algebra concepts found in investing, banking, credit, income taxes, insurance and household budgeting. Step-by-step strategies will help students learn the time value of money, evaluate the best banks and credit cards, make financial decisions like buying a car or renting an apartment, calculate payments and interest on loans, invest in the stock market and build a business plan by knowing costs and profits.

COMPUTER SCIENCE

Middle School

Introduction to Robotics

Computer Science Discoveries I

Computer Science Discoveries II

High School

Computer Science I

AP Computer Science Principles

Computer Science II

AP Computer Science A

Data Structures
in Computer Science

Advanced Projects
in STEAM

COMPUTER SCIENCE

Eastside Catholic is proud to offer a comprehensive computer science pathway for students grades 6-12. The variety of course offerings allows students an opportunity to start their journey where they are ready. While each course is unique in its approach, all students will engage with the seven core practices of computer science (K12CS). These include fostering an inclusive computing culture, collaborating around computing, recognizing and defining computational problems, developing and using abstractions, creating computational artifacts, testing and refining computational artifacts and communicating about computing.

Introduction to Robotics

Grade level(s):	6 - 8
Length/credit:	full year, pass/fail grading system
Prerequisite(s):	none
Other information:	classes meet Monday and Wednesday after school from 3 - 4:30 p.m. Enrollment limit is 20 students; there is an additional fee for this course of \$49 for programs and supplies

This course provides students with hands-on experiences involving the design, construction and programming of robots using LEGO® MINDSTORMS® with the EV3 icon-based programming language. Learn engineering and technology content while applying knowledge and skills to robotic challenges. During the fourth quarter, students will be introduced to text-based programming using the ROBOTC programming language. This is a pass/fail course. Students must attend at least 12 out of the 16 classes each quarter and score a minimum of 70 percent on tasks and quizzes to earn a pass grade. No homework is assigned for this course. By completing this course, students qualify to participate in the Advanced Robotics Team for the following school year.

Computer Science Discoveries I

Grade level(s):	7, 8
Length:	one semester
Prerequisite(s):	none

Computer Science Discoveries is a semester long introductory course. The course takes a wide lens on computer science by covering topics such as problem solving, programming and HTML/CSS. Students engage with computer science as a medium for creativity, communication, problem solving and fun. The course inspires students as they build their own websites, apps and games. Students will grapple with 1) the problem-solving process and how computers help humans solve problems, 2) how to make a website in code.org's Web Lab environment and 3) how to program animations and games using JavaScript in code.org's Game Lab environment.

Computer Science Discoveries II

Grade level(s):	7, 8
Length:	one semester
Prerequisite:	Computer Science Discoveries I

Computer Science Discoveries II is a semester long introductory course that builds on the principles taught in Computer Science Discoveries I. This course dives deeper into data and physical computing. Students will learn the design process through the development of an app, how computers use data to make decisions and the relationship between hardware and software through the Adafruit Circuit Playground.

Computer Science I

Grade Level(s):	9, 10
Length/credit:	one semester/one elective credit
Prerequisites:	none

Computer Science I is a semester-long introductory course. The course takes a wide lens on computer science by covering topics such as problem solving, programming and HTML/CSS. Students engage with computer science as a medium for creativity, communication, problem solving and fun. The course inspires students as they build their own websites, apps and games. Students will grapple with 1) the problem-solving process and how computers help humans solve problems; 2) how to make a website in code.org's Web Lab environment; 3) how to program animations and games using JavaScript in code.org's Game Lab environment.

Computer Science II

Grade Level(s):	9, 10
Length/credit:	one semester/one elective credit
Prerequisites:	Computer Science I or Computer Science Discoveries

Computer Science II is a semester-long introductory course that builds on the principles taught in CS I. This course dives deeper into data and physical computing. Students will learn the design process through the development of an app, how computers use data to make decisions and the relationship between hardware and software through the Adafruit Circuit Playground.

AP Computer Science Principles

Grade level(s):	9 - 12
Length/credit:	full year/two elective credits
Prerequisite(s):	Algebra I
Other information:	AP exam required



AP Computer Science Principles is designed to be equivalent to a first-semester introductory college computing course. Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. The course is unique in its focus on fostering student creativity: students develop programming skills through app development based on their personal interests using code.org's App Lab environment. The programming language used in this course is JavaScript.

AP Computer Science A

Grade level(s):	10 - 12
Length/credit:	full year/two elective credits
Prerequisite(s):	students must have completed or be concurrently enrolled in Algebra II, or have completed Introduction to Programming or AP Computer Science Principles
Other information:	AP exam required; about 3 hours of homework per week



AP Computer Science A is intended to serve both as an introductory course for computer science majors and as a course for people who will major in other disciplines that require significant involvement with technology. No computer programming experience is necessary; however, a strong math and languages background will help assure success in this challenging course. Students will learn JAVA, an excellent web-based programming language that is the current standard for AP Computer Science A. Topics include program development cycle, program syntax, writing code techniques, data types, methods, conditionals and repetition statements.

Data Structures in Computer Science

Grade level(s):	11, 12
Length/credit:	full year/two elective credits
Prerequisite(s):	completion of AP Computer Science A with a grade of 'B' or higher

Data Structures in Computer Science is an application of the knowledge gained in AP Computer Science A. AP Computer Science A is a class dedicated to looking at the mechanics of a program: you were asked to write programs that use algorithms to solve some problem. In contrast, Data Structures in Computer Science is more profound. We will look at what it means to write a program. We will not only solve problems but look at data and think about the best way to store it and use it for a real-life application.

Advanced Projects in Computer Science

Grade level(s):	10 - 12
Length/credit:	one semester/one elective credit
Prerequisite(s):	completion of AP Computer Science A or instructor permission

This course allows students who have completed the AP Computer Science A course to continue to expand and deepen their knowledge and understanding of computer science through student-chosen projects. The primary component of the course will be the completion of one or more significant projects chosen and designed by small student groups.

Students should expect to spend 2-4 hours each week outside of class working on projects. Students taking this course are expected to be self-directed and ambitious. Local computer scientists and programmers will mentor students but students should be prepared to work independently as well.

GENERAL ELECTIVES

High School

Principles of Leadership
(one semester)

Student Leadership
(zero period only)

Options Program Peer Tutor
(one semester)

Middle School Administrative
Teachers Assistant

AP Seminar

AP Research

GENERAL ELECTIVES

GRADES 9 - 12

Principles of Leadership

Grade level(s):	9 - 12
Length/credit:	one semester/one elective credit; students are graded using the traditional grading scale
Prerequisite(s):	none

This course facilitates the development of leadership skills through the coordination and organization of Eastside Catholic activities. This course is designed around the Touchstone of Servant Leadership. Special emphasis is placed on character development and the creation and implementation of school and community projects, including setting personal and team goals, evaluating individual and group dynamics and dealing with personal and community challenges. Students in this class are expected to attend out-of-school activities and fully participate in all activities.

Student Leadership

Grade level(s):	10 - 12 (available to ninth-grade class officers elected fall term)
Length/credit:	full year/two elective credits; students earn an 'A', Pass or No Credit
Prerequisite(s):	students must sign up in person with Leadership Teacher
Other information:	offered zero period only; may be repeated for credit

This course facilitates the development of leadership skills through the coordination and organization of Eastside Catholic activities and is designed around the Touchstone of Servant Leadership. Special emphasis is placed on character development and the creation and implementation of school and community projects, including setting personal and team goals, evaluating individual and group dynamics and dealing with personal and community challenges. Students are expected to attend out-of-school activities and fully participate in all activities.

Options Program Peer Tutor

Grade level(s):	11, 12
Length/credit:	one semester/one elective credit
Prerequisite(s):	demonstration of consistent daily attendance in the previous semester
Other information:	may be repeated for credit

This course is for students who wish to assist students in the Options Program with their class work. Students will work one-on-one and in small groups in the Options Program classroom and/or in general education classes to assist the student in the learning process. Students will receive coaching and strategies to be successful in the tutoring process.

Middle School Administrative Teacher's Assistant

Grade level(s):	12
Length/credit:	one semester/one elective credit
Other information:	students must be approved by the Middle School Principal and Middle School Assistant Principal; may be repeated for credit

This class is an opportunity for high school student leaders to help plan middle school activities, eat lunch with middle school students, engage in dialogue on leadership with middle school administrators and perform necessary tasks to help the middle school operate smoothly. Middle school teacher's assistants will work closely with the middle school principal and the middle school assistant principal.

AP Seminar

Grade level(s):	10, 11
Length/credit:	full year/two elective credits
Prerequisite(s):	none



AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic, real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

AP Research

Grade level(s):	11, 12
Length/credit:	full year/two elective credits
Prerequisite(s):	AP Seminar



AP Research allows students to deeply explore an academic topic, problem or issue of individual interest. Through this exploration, students design, plan and conduct a year-long research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing and synthesizing information as they address a research question. Students explore their skill development, document their processes and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4,000-5,000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.



EASTSIDE CATHOLIC

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Coed, Grades 6 - 12

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