

Arlington Catholic High School

Program of Studies

2017 - 2018

This booklet is designed to acquaint you with the courses available at Arlington Catholic High School. You must carry a program of six full credit courses per year. Careful consideration should be given to your abilities, interests, and aptitudes when choosing courses. Any student who is permitted to take a seventh course may not drop that course after the add/drop period. Requirements for high school graduation and college admission are also important factors in course selection. Students should consult with parents, teachers, and guidance counselors when selecting courses.

Requirements for Graduation

English	4 years
Theology	4 years
Christian Service Hours (see Theology Department section)	60 hours
Math (Algebra I, Geometry, Algebra II + Additional Math)	4 years
Science (Biology, Chemistry + Additional Science)	3 years
Social Studies (Freshman History, US History + Additional Social Studies or AP Seminar)	3 years
Language (French, Italian, Latin, Spanish)	2 years
Physical Education	2 years
Arts & Enrichment Program	4 years

Requirements

Grade 9

English 1
Language
Algebra 1
Theology 1
History
Physical Education

Grade 10

Biology (if not yet taken)
English 2
Language
Geometry
Theology 2
Physical Education

Grade 11

English 3
Algebra 2
Theology 3
United States History

Grade 12

English 4
Theology 4
Chemistry (if not yet taken)
Mathematics
Social Studies (if needed)

Honors and Advanced Placement Courses

Honors (Grade 9)

- A minimum of a B+ average in the appropriate subject area in grades 7 & 8.
- Scores on standardized tests, including the High School Placement Test, that indicate the student is capable in a particular subject area.
- Scores on Arlington Catholic's Placement Exams
- Since topics covered are cumulative and require considerable critical thinking, regular school attendance, including a minimal number of tardies and dismissals, is required.
- Department approval.

Honors & Advanced Placement (Grades 10, 11, 12)

- Specific requirements for each course or department can be found in each department's section of this Program of Studies
- Since topics covered are cumulative and require considerable critical thinking, regular school attendance, including a minimal number of tardies and dismissals, is required.
- Standardized test scores including PSAT, SAT etc. if applicable.
- Approval of current teacher or Department Chair

**** Please note that no one standard automatically qualifies a student's placement into a course. Approval of the respective department is required for all courses.**

Present students are required to have their current teacher or Department Chair initial their course request sheet to indicate that the student is approved for a particular course. The initialed course request sheet must be signed by a parent and be stapled to and submitted with the finalized list printed from the Grade Book account. All present students are required to follow this new procedure in order to be scheduled for courses.

Arlington Catholic High School will attempt to honor all course requests. In some cases, under-enrollment or course conflicts may make requested scheduling impossible. Students will be advised of the conflict and asked to select an alternative course. Schedule changes may also occur due to a student's failure to meet prerequisites, conflicts in scheduling, or errors in placement.

Students should consult with parents, teachers or Department Chairs, and Guidance Counselors to plan out the program most appropriate for their abilities, interests, and future plans. While all courses at Arlington Catholic are college-prep and require strong effort, participation and critical thinking, many students should choose courses beyond that initial, college-prep, level. Arlington Catholic will encourage students to move students up to an honors or AP course if we feel that doing so will better serve a student's abilities or future plans.

Students should choose courses based on interest and ability, not by teacher. Teaching assignments are not finalized until after the course selection process is completed.

Incoming students, both transfers and freshmen, must meet requirements stated in this Program of Studies and pass department placement exams, as required, for certain honors or AP courses.

Once the school's master schedule has been completed, few changes will be made. Requests for schedule changes must be made through the student's counselor and must be approved by Department Chairs and administration. Information on dates and times for these changes will be included in the student handbook.

Prior to any schedule change being considered, the student must work to design proactive steps to improve student performance: reviewing with the teacher before tests, seeking consistent extra help, tutoring, and developing more effective study strategies. Students must put forth a good faith effort in order for schedule changes to be considered.

English Department

All students are required to take four years of English.

Summer reading is required each year.

ENGLISH 1 – 010

1 Credit

English 1 provides a comprehensive foundation of close reading, writing, and grammar skills that students build upon throughout their high school career. Students read both fiction and nonfiction selections from the major literary genres, and begin to think more critically about these works. They learn to identify literary language, build vocabulary, understand effective sentence structure, and practice close reading. Using the writing process, they craft personal, expository, analytical, and argumentative paragraphs and essays, as well as imaginative pieces.

Grade: 9

HONORS ENGLISH 1- 011

1 Credit

Honors English 1 covers content similar to that of English 1. This course provides a comprehensive foundation of close reading, writing, and grammar skills that students build upon throughout their high school career; however, students are required to read and write on a more analytical level. In addition, students are often expected to work more independently. Students read both fiction and nonfiction selections from the major literary genres, and begin to think more critically about these works. They learn to identify literary language, build vocabulary, understand effective sentence structure, and practice close reading. Using the writing process, they craft personal, expository, analytical, and argumentative paragraphs and essays, as well as imaginative pieces.

Students must take a placement test to be considered for admission to this course.

Grade: 9

ENGLISH 2 – 020**1 Credit**

English 2 builds upon the skills and concepts introduced in English 1. Reading selections come from a variety of genres including the novel, the short story, Greek and Shakespearean drama, the graphic novel, and poetry. The writing process emphasizes gathering, organizing and developing ideas with greater sophistication. Students learn about diction, tone, style, and voice through close reading and imitation. They are introduced to rhetorical appeals and strategies through nonfiction essays and articles. Grammar, usage, sentence structure, and vocabulary are taught in conjunction with PSAT/SAT preparation.

Grade: 10

HONORS ENGLISH 2- 021**1 Credit**

Honors English 2 covers content similar to that of English 2. This course builds upon the skills and concepts introduced in English 1; however, students complete additional readings as well as read and write on a more analytical level. In addition, a short term paper on a literary topic is required. Reading selections come from a variety of genres including the novel, the short story, Greek and Shakespearean drama, the graphic novel, and poetry. The writing process emphasizes gathering, organizing and developing ideas with greater sophistication. Students learn about diction, tone, style, and voice through close reading and imitation. They are introduced to rhetorical appeals and strategies through nonfiction essays and articles. Grammar, usage, sentence structure, and vocabulary are taught in conjunction with PSAT/SAT preparation.

Admission to this course requires teacher approval.

Grade: 10

ENGLISH 3 – 030**1 Credit**

English 3: American Literature focuses on the works of American writers as well as major literary themes and movements from the colonial period to the present through the lens of *exploration*. Readings, which include fiction and nonfiction, essays, short stories, poems, novels and plays, act as springboards for discussion as well as writing literary analysis, argument, and synthesis. In addition, an intensive language component stresses close reading skills, grammar, usage and writing for the SAT. In the spring, juniors are guided through the process of writing college application essays. All students are required to write a term paper on a literary topic and complete a number of independent reading assignments.

Grade: 11

HONORS ENGLISH 3- 031**1 Credit**

Honors English 3: American Literature focuses on content similar to that of English 3; however, the honors course requires additional readings, projects, and writing assignments. Readings, which include fiction and nonfiction, essays, short stories, poems, novels and plays, act as springboards for discussion as well as writing literary analysis, argument, and synthesis. In addition, an intensive language component stresses close reading skills, grammar, usage and writing for the SAT. In the spring, juniors are guided through the process of writing college application essays. All students are required to write a term paper on a literary topic and complete a number of independent reading assignments.

Admission to this course requires teacher approval.

Grade: 11

ENGLISH 4- 040**1 Credit**

English 4 prepares students for reading and writing at the college level. The year is divided into four specific quarters. During the first two quarters, students will read works from various time periods and genres devoted to the theme of *The Hero* and *The Antihero*, respectively. To prepare for reading, writing, and thinking at the college level, students will synthesize and apply skills acquired during their high school studies. The third quarter will focus on honing writing skills, using memoir in particular as a springboard for various types of writing such as imitation, personal narrative, argument, and analysis. During the fourth quarter, seniors will use both technology and traditional methods to conduct research, design oral presentations, practice collaboration, and write and study independently.

Grade: 12

HONORS ENGLISH 4- 041**1 Credit**

Honors English 4 covers content similar to that of English 4; however, students will complete additional readings and write more extensive analyses. The year is divided into four specific quarters. During the first two quarters, students will read works from various time periods and genres devoted to the theme of *The Hero* and *The Antihero*, respectively. To prepare for reading, writing, and thinking at the college level, students will synthesize and apply skills acquired during their high school studies. The third quarter will focus on honing writing skills, using memoir in particular as a springboard for various types of writing such as imitation, personal narrative, argument, and analysis. During the fourth quarter, seniors will use both technology and traditional methods to conduct research, design oral presentations, practice collaboration, and write and study independently.

Admission to this course requires teacher approval.

Grade: 12

CREATIVE WRITING- 051**1 Credit**

Get creative! This elective course offers students a forum for self-expression through writings other than the standard five-paragraph essay. Students will model a variety of genres including poetry, memoir, short fiction, drama, and news journalism, as well as work with mixed media forms, blending photography, visual art, video and music with words. They will free-write, read and imitate, keep a “real” notebook and build a digital portfolio. Students will be encouraged to enter contests and look for publishing opportunities such as *Teen Ink* and the school literary magazine, *Imaginary Gardens*.

Grade: 11, 12

ADVANCED PLACEMENT ENGLISH (LANGUAGE AND COMPOSITION) – 049**1 Credit**

Advanced Placement English: Language and Composition is a college-level course that helps students become skilled readers and writers. Readings from a range of nonfiction and fiction genres provide a way to explore the interactions among subject matter, writer's purpose, and audience response, as well as the linguistic resources that contribute to effectiveness in writing. Students read and discuss written and visual texts as a basis for writing rhetorical analysis, argument, and synthesis essays. In addition, they keep journals and craft critical and creative writing of their own in a variety of genres and styles for a variety of purposes. Students must submit at least one written piece to an AC publication and complete independent reading assignments and projects. Summer reading and writing are required.

Students interested in this course are strongly urged to have taken Honors English 2 or Honors English 3 and to have maintained a B average. Applicants from English 2 must have teacher approval. Students may be asked to submit a writing sample.

This course prepares students to earn college credit by passing the Advanced Placement Examination in Language and Composition. Students are required to take the AP Examination.

Grades: 11, 12

ADVANCED PLACEMENT ENGLISH (LITERATURE AND COMPOSITION)– 050**1 Credit**

Advanced Placement English: Literature and Composition is a college-level course which combines the reading and critical analysis of literature with extensive and detailed student composition. Students write essays interpreting works from a wide range of literary genres. Summer reading is required

Students interested in this course are strongly urged to have taken AP Language and Composition and to have maintained a B average. Applicants from Honors English 3 and English 3 must have teacher approval. Students may be asked to submit a writing sample.

The course prepares students to earn college credit by passing the Advanced Placement Examination in Literature and Composition. Students are required to take the AP Examination.

Grade: 12

Social Studies Department

All students are required to take three years of Social Studies, which includes Western Civilization or Honors World History in the freshman year and US History in the junior year. AP Seminar may be used to fulfill the three year requirement, but does not, for juniors, replace US History. Department approval is required for honors and AP courses.

WESTERN CIVILIZATION – 112

1 Credit

This course is a survey of the great civilizations of the western world. Beginning with pre-history, and ancient cultures, students will then discover the histories and culture of Greece and Rome; the rise of the Islamic World; and the development of Europe through the Middle Ages and the Renaissance. The course concludes with a study of Absolutism. Students develop skills in geography and writing, as well as in document reading and analysis.

Grade: 9

HONORS WORLD HISTORY – 111

1 Credit

This course is a study of the great civilizations of the world, beginning with Prehistory through the Reformation and Renaissance. Students will study The Middle East, China, India, Africa, Asia, Southeast Asia, East Asia and Europe. The main aspects of a civilization are covered: government structure, culture, belief systems, societal structure, and geography. Emphasis will be placed on critical reading and writing as well as the development of a student's analytical skills.

Grade: 9

MODERN WORLD HISTORY – 115

1 Credit

This course examines the major turning points of the modern world from approximately 1700 to contemporary time. Components of this class include: Historical Linkage, the Enlightenment, the French Revolution, the Industrial Revolution, Nationalism and the growth of Democracy, the Rise of Imperialism and Colonialism, World War I, Totalitarianism, World War II and the Cold War. Students should develop an understanding of the historic as well as contemporary geographic, social, political and economic consequences of the various areas and problems they review. Completion of a history course in the sophomore year is required for admission to AP U.S. History.

Grade: 10

HONORS MODERN WORLD HISTORY – 116

1 Credit

This honors course explores major themes in world history from the time of the Scientific Revolution until the present day. Students will examine political, economic, social, and cultural aspects of history. Significant topics include the Enlightenment, Nationalism, Imperialism, Wars of the 20th century, Popular Culture and significant revolutions (both violent and nonviolent). Great emphasis will be placed on analysis of issues and writing. Students are required to complete a written research project for this course. Completion of a history course in the sophomore year is required for admission to AP U.S. History.

Grade: 10

ADVANCED PLACEMENT WORLD HISTORY -1251 Credit

This course allows students to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. Students examine and compare changes and the consequences of these changes throughout world history; it is these changes that, over time, have resulted in the knitting of the world into the tightly integrated whole it is today. The AP World History Exam covers material from approximately 8000 B.C. through the present day. Given the time frame for the course, preference will be given to students who have completed Honors World History, although the Department Chair/course instructor may allow students who did exceptionally well in Western Civilization to select this course with the understanding that additional reading may be required; departmental approval is required for all students to enroll in this course. Students are required to take the AP exam in May.

Grade: 10

UNITED STATES HISTORY – 1501 Credit

This course provides a one year survey of American history by exploring the themes of democracy, war, immigration, and social change. Examination of primary/secondary sources, critical thinking skills, cooperative learning, and discussion will be used to allow students to understand how the past relates to the present and the future.

Grade: 11

HONORS UNITED STATES HISTORY -151**1 Credit**

This course provides a one year survey of American history by exploring the themes of democracy, war, immigration, and social change. Examination of primary/secondary sources, critical thinking skills, cooperative learning, and discussion will be used to allow students to understand how the past relates to the present and the future. While essentially the same content as US History, instruction is at an accelerated pace and more independent work is required.

Grade: 11

ADVANCED PLACEMENT UNITED STATES HISTORY – 152**1 Credit**

This course is a single academic year survey of the history of the USA from first discovery to the present day. The course examines the geographic, political, diplomatic, cultural, social and economic forces that converged over time to forge a unique and dynamic entity that continues to impact the evolution of world society. The course involves extensive reading assignments and written work to prepare for class. Students must take the AP Exam in May.

Grade: 11

Requirement: Completion of history or AP Seminar in the sophomore year and departmental approval.

ECONOMICS – 141**1 Credit**

This course is designed to promote economics as a way of thinking. Through this course, students will gain an understanding of economic systems and activities to participate as a citizen in the system of American Free Enterprise. This course will also focus on basic economic principles such as supply and demand, production and consumption, and competition in markets. Students are required to complete a multitude of projects in this course ranging from their own personal finance portfolio to creating a small business plan.

Grade: 12

PSYCHOLOGY – 143**1 Credit**

This course examines human behavior and thought processes. Among the topics that will be covered are: research methods; social psychology; how our brain and nervous system affects our behavior; perception; learning and memory; development across the lifespan; sleeping; hypnosis; and drug use; intelligence and personality and psychological disorders. Students will apply their study of psychology to their lives and will examine how the various perspectives, within this discipline, interpret the topics discussed. Students will be required to do independent reading to prepare for class, actively participate and complete outside class projects.

Grade: 12

AMERICAN LAW AND SOCIETY – 145**1 Credit**

This course examines American Law in our judicial system today. Subject matter covered during the course of the year includes: The Constitution; Bill of Rights; other amendments, United States Supreme Court decisions; due process of law; lawmaking; the legal profession; crime in America; the criminal justice process; torts; contracts; and consumer law. Students are required to complete a written research project in this course.

Grade: 12

ADVANCED PLACEMENT PSYCHOLOGY – 147**1 Credit**

Advanced Placement Psychology introduces students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub-fields within psychology (neuroscience, development, learning, personality, etc.). Students also learn about the ethics and methods that psychologists use in their study. This course requires nightly reading assignments, numerous writing assignments, and extensive class participation. There is also a summer assignment for this course. Emphasis is placed on the ability to think, read, and write in a critical fashion. Students are required to take the AP examination.

This course will have open enrollment: any student who is willing to do the work equivalent to a first-year college level course is invited to enroll. Students must obtain an enrollment contract ***before*** registering for this course. No student will be permitted to withdraw from the course after the first full cycle of classes in September.

Grade: 12

Mathematics Department

All students are required to take Algebra 1, Geometry, and Algebra 2. Any version of the TI-84 or TI-84 Plus graphing calculator is required in all math classes.

Please Note: A grade of B- is required to remain in Advanced or Honors Math courses. A year end grade of A- and departmental approval are both required to move from an Honors level course to an Advanced level course; as well as move from a college-prep level to an Honors level course.

HONORS ALGEBRA 1 – 210

1 Credit

The course is designed for the student well prepared by fundamental pre-algebra. Moving at a rapid pace, students are challenged by a highly competitive atmosphere. Students discover and develop algebraic concepts and skills by relating their knowledge of numbers to the variable. Topics include the language of sets, linear equalities, and inequalities, quadratic equations, linear systems, and functions. Numerous word problems provide practical application of the concepts being developed.

Grade: 9

ALGEBRA 1 - 211

1 Credit

Algebra 1 is designed to give the students a solid foundation in basic algebraic concepts and skills which include sets, structure of number systems, equalities and the coordinate plane. Highlighting some of the key areas of introductory geometry and basic logical reasoning, provides students the underlying groundwork for future mathematics courses.

Grade: 9

ADVANCED GEOMETRY -214**1 Credit**

This course is designed for highly motivated students with exceptional math skills and a strong background in Algebra. The course integrates Algebra concepts in the study of Geometry. The work centers around two basic understandings: the development of geometrical principles on a plane, and the nature of mathematical proofs. These two objectives are met by starting with undefined terms, such as points, line and plane, and then proceeding through the axioms and postulates to the theorems. In this approach, concepts are important as they relate to one another. The course concludes with the study of Area and Volume. In Advanced Geometry the subject matter is studied in greater depth, with more difficult proofs, than in the Honors Geometry course.

Grade: 9

ADV. GEOMETRY / ALGEBRA 2 – 213**1 Credit**

This Advanced Course completes Honors Geometry and Honors Algebra 2 at an accelerated pace. It is designed for highly motivated students with exceptional mathematical skills.

Grades: 10

HONORS GEOMETRY – 220**1 Credit**

The work centers around two basic understandings: the development of geometrical principles on a plane, and the nature of mathematical proofs. These two objectives are met by starting with undefined terms, such as points, line and plane, and then proceeding through the axioms and postulates to the theorems. In this approach, concepts are important as they relate to one another. In Honors Geometry the subject matter is studied in greater depth than in the college-prep course.

Grade: 10

GEOMETRY – 221**1 Credit**

Basic concepts of Geometry which include point, line, and plane are discussed; various axioms, postulates and theorems contributing to the understanding of proofs are studied. The reinforcement of algebraic concepts helps to foster an understanding of mathematical reasoning and to illustrate the interrelation between Geometry and Algebra. Basic trigonometric ratios are also explored.

Grade: 10

HONORS ALGEBRA 2 & TRIGONOMETRY– 230**1 Credit**

This is an intensive course in Algebraic skills which goes into greater depth and at a more accelerated pace than Algebra 2 –Course #231. Topics covered will include linear and quadratic functions, matrices, complex numbers, exponential and logarithmic functions, analytic geometry and an introduction to trigonometry. These topics are necessary for the study of Pre-Calculus and Calculus.

Grades: 11

ALGEBRA 2 – 231**1 Credit**

This course consists of a detailed development of algebraic theory in the rational, real, and complex number systems. The subject matter deals with the study of relations, their properties and graphs with attention to the polynomial, logarithmic, and exponential functions. This course is a strong foundation for all higher mathematics courses.

Grades: 11

PRE-CALCULUS – 241**1 Credit**

This course will prepare students for the next level mathematics course they would take in college. Topics include: coordinate geometry, polynomials, inequalities, functions, exponentials and logarithms. Time permitting, trigonometry would also be covered. The content taught in this course applies algebraic processes to analyze data and graphs.

Grades: 11, 12

HONORS PRE-CALCULUS – 2421 Credit

This course is intended for the above average math students. The same topics studied in Pre-Calculus are studied in this course, but at an accelerated pace. More emphasis is placed on the theory and use of the graphing calculator.

Grades: 10, 11, 12

ADVANCED PRE-CALCULUS – 2441 Credit

This course is intended for the advanced math student. The pre-calculus topics will be discussed at an advanced level and accelerated pace. This course prepares students for the AP Calculus course.

Grade: 11

HONORS CALCULUS - 2451 Credit

This course will prepare students for further study of mathematics in college. Topics covered will include a review of algebra, functions and graphs, derivatives, applications of the derivatives, exponential and logarithmic functions, integration, and applications of integration. Students must have successfully completed one full year of Honors Pre-Calculus.

Grades: 11, 12

ADVANCED PLACEMENT CALCULUS AB – 2401 Credit

Advanced Placement Calculus is a college-level course which includes differential and integral calculus, and their applications. This course is intended for those students who are planning careers in engineering, mathematics, or computer science, and prepares students to earn college credit by taking the Advanced Placement exam. Any student wishing to take this course must have successfully completed one full year of Honors Pre-Calculus and be recommended by the Honors Pre-Calculus teacher. The student is required to take the Advanced Placement Calculus AB Exam.

Grades: 11, 12

ADVANCED PLACEMENT CALCULUS BC- 250**1 Credit**

Advanced Placement Calculus BC is a college-level course which includes differential and integral calculus, infinite sequences and series, polar functions, and applications of these topics. This course is intended for those students who are planning careers in engineering, mathematics, or computer science; and prepares students to earn college credit by taking the Advanced Placement BC exam. Any student wishing to take this course must have successfully completed one full year of Advanced Placement Calculus AB and be recommended by the AP Calculus AB teacher. The student is required to take the Advanced Placement Calculus BC Exam.

Grade: 12

HONORS ROBOTICS * – 261**1 Credit**

This is a STEM-related (science, technology, engineering, and mathematics) course that will be challenging but great fun! This course will be a standard length ACHS course earning honors credit, structured as a hands-on, laboratory-style class in which we will be designing, building, and programming autonomous robots. We have a sophisticated collection of robotics parts to use gathered from our recent participation in the New England Regional Botball Competition (<http://www.botball.org/>). In fact, the culmination of the course will be participating in the 2018 competition held at UMass Lowell. Our robots will be programmed using a modified C language which contains an extensive library of special functions to control motors, sensors, and even web cams!

Grades: 11, 12

MARKETING & ENTREPRENEURSHIP * – 262**1 Credit**

This course will allow students to explore the operation of a business. Topics will include: accounting, inventory management and more. Students will develop a business plan and present in a “Shark Tank” environment to potential “investors.” Guest speakers, group projects and various simulations will be used to provide students with a thorough understanding of all aspects of running a business.

Grades: 11, 12

COMPUTER MODELING and APPLIED ALGORITHMS * – 256**1 Credit**

Designed to complement other mathematics and science courses at AC, this course explores algorithms and solution sets commonly taught in geometry, algebra, physics, and chemistry, and also touches upon problems in social science as well. Interesting and real-world problems, which may include: projectile motion, minimum cost scenarios, predator-prey models, the spread of disease or pollution, exponential growth and decay, and the logistics of a military campaign. Topics of discrete mathematics underpin all models created and include number theory, probability, enumeration, decision-making in finite settings, combinatorics, graph theory, iteration, recursion, and matrices. A variety of computer programming and simulation tools will be used including MS Excel, Stella, Geometer's Sketchpad, StarLogo and Flash.

Grades: 11, 12

COMPUTER APPLICATIONS * – 251**1 Credit**

This laboratory class is designed to develop an understanding of and literacy about computers and digital technology. In addition to using print and electronic textbooks, the Internet is integrated throughout both semesters of this split topic course. During the first semester, students develop expertise in the use of the Microsoft Office Suite, covering advanced Word topics, Excel spreadsheets, and Access databases.

In the second semester, students explore desktop publishing and graphic design. Beginning with advanced topics in Microsoft Power Point and then moving on to Adobe In Design for advanced page layout, the course covers aspects of the design and production of communication products. The course also covers electronic publishing including producing Adobe PDF documents and basic Internet web pages.

Grades: 9, 10, 11, 12

WEB DESIGN * – 257**1 Credit**

In this course on developing content for the Internet, students learn to create dynamic and interactive web sites. In the first semester, students learn to write HTML and CSS code while using Adobe Dreamweaver to create web pages. Effective graphics are a big part of programming for the web, and students also learn to use Adobe Photoshop to manipulate graphics files. In the second semester, students learn to use JavaScript to make their web pages more interactive and responsive to the user. To provide an authentic web developer experience, students are given access to a domain and publish their own web site to the World Wide Web. Students also explore audio and video helper applications to add multimedia components to their projects.

Finally, students use Adobe Flash to create interactive video components to add to their web pages.

Grades: 10, 11, 12

COMPUTER PROGRAMMING * – 253

1 Credit

Designed as a foundations course in computer programming, students use Visual Basic.NET to write Windows-based software that is object-based and employs graphical interfaces. The learning objectives include: understanding the concepts of objects, methods and events, creating programs that can solve real-world problems, making effective decisions, efficiently using loops, and developing algorithms. In the second semester, students employ Visual Basic's graphic capabilities as they learn to program their own original games, as well as arcade classics.

Grades: 10, 11, 12

Science Department

All students are required to take three years of science, including Biology and Chemistry.
Department approval is required for all honors courses.

HONORS BIOLOGY 1 -320

1 Credit

Honors Biology 1 is designed for freshmen who plan to take four years of science at Arlington Catholic and have demonstrated high aptitude in mathematics and reading comprehension. It is a laboratory-based course intended to provide those students with an in-depth knowledge of biology and to further develop their investigative and interpretive skills. Its content is taught on a molecular level, allowing students a better understanding of the rapid advances in biology. Topics include: cells, DNA structure, protein synthesis, genetics, evolution, biochemistry, as well as a deeper study of life processes as they relate to various organisms. This course requires independent research and study. Sophomores who meet the requirements may also elect to take this course.

Grades: 9, 10

BIOLOGY 1 – 322

1 Credit

Biology 1 is a **required laboratory course** offered to freshmen and sophomores. This course is designed to heighten awareness of the interdependence of living organisms with the environment. Topics covered include: cell structure and function, biochemistry of organic nutrients, classification, plant and animal structure, energy transformations, DNA, genetics, and life processes as they relate to various organisms.

Grades: 9, 10

CHEMISTRY – 351

1 Credit

A scientific calculator is required for this course.

Chemistry is a **required laboratory course** offered to sophomores, juniors, and seniors. This course is designed to familiarize students with the basic concepts involved in chemistry. Topics covered include: structure, properties and classification of matter; physical and chemical changes in matter; formula writing; chemical equations; atomic structure; periodic properties of the elements; chemical bonding; behavior of gases and the gas laws; acids, bases and salts; and basic stoichiometry. Laboratory exercises are designed to reinforce principles taught in the class.

Grades: 10, 11, 12

HONORS CHEMISTRY 1 – 350**1 Credit**

A scientific calculator is required for this course.

Honors Chemistry acquaints the student with the basic concepts of chemistry as outlined in college-prep chemistry; however, it includes a more intensive treatment of subject matter with a particular emphasis on chemical mathematics. This course requires independent research.

Grades: 10, 11, 12

HONORS BIOLOGY 2 – 342**1 Credit**

Honors Biology 2 is a course open to juniors and seniors who plan to continue their study of science in college. This course has been designed to build on the concepts and skills developed in Biology/Honors Biology I to give students a thorough foundation in biological science. Students will apply their knowledge of biological principles to health and environmental issues seen in the world today. Topics include: biochemistry; energy transformations; microbiology; molecular biology; biodiversity; and comparative anatomy and physiology. Independent research is required. Lab experiments are designed to build skills such as, but not limited to, advanced microscope use, sterile technique, bacterial transformation, and vertebrate dissection.

Grades: 11, 12

Requirements: Department approval

ADVANCED PLACEMENT BIOLOGY –344**1 Credit**

AP Biology is a course designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Colleges may grant credit, appropriate placement in college courses, or both, to students who have scored satisfactorily on the AP exam. Goals of this course include the following: to help students develop a conceptual understanding of science as a process; to give students personal experience in scientific inquiry; to study unifying themes that integrate major topics in biology; and to apply knowledge and critical thinking to environmental and social concerns. Students who take AP Biology will develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The AP Biology curriculum revolves around four Big Ideas. These are:

Big Idea 1: The process of evolution drives the diversity and unity of life.

Big Idea 2: Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis.

Big Idea 3: Living systems store, retrieve, transmit and respond to information essential to life processes.

Big Idea 4: Biological systems interact, and these systems and their interactions possess complex properties.

Students will be responsible for designing and running their own experiments which may require extra time before or after school and students must also complete a summer assignment prior to the start of the course in the fall. All students are required to take the AP Biology Exam.

Requirements: Students must have advanced inquiry and reasoning skills, and must have received at least an A- in both Honors Biology 1 and Honors Chemistry in addition to having above average reading comprehension. Standardized test scores will also be considered. Departmental approval is required for enrollment in this course.

Grades: 11, 12

HONORS CHEMISTRY 2 - 353**1Credit**

Honors Chemistry 2 is open to juniors and seniors who have had a solid performance in mathematics and in their first year chemistry course. This course offers a strong college preparatory background in qualitative, quantitative, and theoretical aspects of chemistry for those interested in pursuing science or healthcare-related courses in college. This course expects students will make a serious commitment of time and energy. Concepts presented include: structure and properties of matter; states of matter; reaction types; stoichiometry; equilibrium; kinetics; electrochemistry; nuclear chemistry; introduction to both organic chemistry and biochemistry. Students are required to prepare independent projects. A scientific calculator is required for this course.

Requirements: Students must have a B+ in Algebra 2 and other mathematics courses and B+ in Chemistry or B in Honors Chemistry and Honors Algebra 2 as well as other honors mathematics courses. Students coming from Chemistry (#351) are responsible for topics that bridge the gap between college-prep Chemistry (#351) and Honors Chemistry (#350). There will be a summer assignment. Departmental approval is required for enrollment in this course.

Grades: 11, 12

BIOLOGY 2- 347**1 Credit**

This course is for juniors or seniors who need to fulfill a third year science requirement or wish to enroll in a fourth year elective. Topics covered will help students develop into global citizens who are informed of timely issues and who can use their knowledge to make informed decisions at the personal, national and global levels. Topics covered include, but are not limited to, macromolecules; cells; homeostasis; DNA; human body systems; plants; classification; and evolution. These topics go into greater detail than those covered in Biology 1.

Grades: 11, 12

Requirements: Students need to have completed Biology and Chemistry.

ADVANCED PLACEMENT CHEMISTRY – 354**1 Credit**

AP Chemistry is designed to be the equivalent of the general chemistry course usually taken during the first year in college. For some students, this course enables them to undertake, in their first year, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. AP Chemistry will meet the objectives of a college general chemistry course. Students in this course will attain a depth of understanding of fundamentals and reasonable competence in dealing with chemical problems. The course will contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. This course differs from the usual first high school level chemistry course with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by students. Other differences include the number of topics treated, the time spent on the course by students, and the nature and variety of experiments done in the laboratory. Topics covered include atomic theory and structure, periodicity, chemical bonding, acids and bases, gases, liquids, solids, solutions, reaction types, stoichiometry, equilibrium, kinetics and thermodynamics. The course also requires students to participate in laboratory experiments, which will involve extra time before and after school. Students must complete a summer assignment prior to the start of the course in the fall. All students enrolled in this class are required to take the AP Chemistry exam.

Grades: 11, 12

Requirements: Students must have received at least an A- in Honors Chemistry as well as an A- in Honors Algebra 2 or an equivalent math course. Standardized test scores will also be considered. Departmental approval is required for enrollment in this class.

PHYSICS - 341**1 Credit**

This course is open to juniors and seniors who have a good mathematical background. Basic algebra and simple trigonometry are used for problem solving. The course is designed to familiarize students with concepts of physics necessary for following science courses in college. Topics include: kinematics, Newton's laws of motion, work, energy, and power, linear momentum, circular and rotational motion, gravitation, waves, heat, electricity and magnetism. Laboratories are included to reinforce topics. Students taking this course are required to prepare independent projects. A scientific calculator is required for this course.

Requirements: Students enrolling in this course should have taken Algebra 2(Course #231) and received a minimum of a B as a final average. It is recommended that students have received at least a B- in previous science courses. Departmental approval is required for enrollment in this class.

Grades: 11, 12

HONORS PHYSICS – 340**1 Credit**

This course provides an introduction to physics principles with a more quantitative approach than Physics. This course moves at a faster pace and involves more problem solving than Physics. Laboratories are included to reinforce topics. Topics include kinematics, Newton's laws of motion, work, energy, and power, linear momentum, circular and rotational motion and gravitation, waves, heat, electricity and magnetism. A scientific calculator is required for this course.

Grades: 11, 12

Requirements: Students must have demonstrated very strong mathematical abilities and should have taken Honors Algebra 2/Trig (Course #230) and received a minimum of a B as a final average. Departmental approval is required for enrollment in this course.

ADVANCED PLACEMENT PHYSICS C: MECHANICS - 339**1 Credit**

This course is designed to be the equivalent of a college introductory physics course usually taken by physics and engineering majors during their first semester. This is a calculus-based course that deals with the following topics: kinematics, Newton's laws of motion, work, energy and power, systems of particles and linear momentum, circular motion and rotation, oscillations and gravitation. The course includes hands-on laboratory work that is comparable to the laboratory component of an introductory college physics course. The student is required to take the AP Physics C: Mechanics exam. A TI-84 Plus graphing calculator (silver edition) is required for this course.

Grades: 11, 12

Requirements: AP Calculus AB must be taken previously or concurrently. If AP Calculus is being taken concurrently then students should have received an A- in Advanced Pre-Calculus (Course #244). Departmental approval is required for enrollment in this course.

HONORS ANATOMY & PHYSIOLOGY - 346**1 Credit**

Honors Anatomy and Physiology is open to juniors and seniors who are interested in pursuing a health-care related course of study in college. It is an in-depth, lab-based course that explores the structure and function of the human body systems and how they work together to maintain homeostasis or health. The course prepares the student for a college level Anatomy and Physiology course. Students who do not intend to undertake a college program of study in the health care fields can take the course but should be aware of the rapid pace and in depth approach the course will follow. Independent reading and research are required in this course. The lab component includes mandatory dissections. Also, a summer project will be required and will be due on the first day of class.

Grades: 11, 12

Requirements: Students need to have completed Biology and Chemistry and should have attained a B+ average in each class or B- in Honors Biology I or II and Honors Chemistry I or II. Departmental approval is required for enrollment in this course.

FORENSIC SCIENCE- 375**1 Credit**

Forensics is a multidisciplinary course which incorporates biology, chemistry, and physics as well as analytical skills. This course is developed to fulfill the third year lab science requirement or for those students who wish to take a fourth year of science. It is intended for those who have a **strong interest** in the sciences. The course will include labs, lab reports, projects and presentations. Topics will include, but are not limited to: observation skills, crime scene investigation, hair analysis, blood and blood splatter patterns, fingerprinting analysis, case studies, forensic toxicology, handwriting analysis, and forensic anthropology.

Students should be aware there may be graphic material. Course admittance **requires** signing and submitting a permission form from a parent/guardian as well as a signed student acknowledgement of the graphic nature of the course.

Grades: 11, 12

Requirements: Students need to have completed Biology and Chemistry.

Physical Education

PHYSICAL EDUCATION - 959

¼ Credit

Physical Education is a course requirement for all Freshmen and Sophomores. The Physical Education class is an introduction to basic skills and movement by participation and instruction in the following activities: Badminton, Basketball, Flag Football, Lacrosse, Paddle Tennis, Pilo-Polo, Ping Pong, Whiffle Ball, Soccer, Ultimate Frisbee, Jump Rope, and Hula Hoops. Students will work on individual skills as well as group work and teamwork by participating in a variety of structured recreational games. Physical Education class will also utilize and understand the importance of the Wellness Center and the Turf Field. Throughout the year all Physical Education classes will participate in Health Workshop programs. The Physical Education Program helps students develop socially, emotionally and physically. The Physical Education class promotes a healthy environment with emphasis placed on good sportsmanship and fair play.

Grades: 9, 10

World Language Department

All students are required to take two consecutive years of a world language, French, Italian, Latin or Spanish. A minimum of a B- average in an honors course is required to remain in an honors level course. A minimum of a B+ average in the appropriate prerequisite college preparatory course(s) is required to move to the honors level. For incoming freshmen, placement in college prep level 2 or honors level 2 courses in French, Italian or Spanish is determined by results on the department placement test.

The World Language Department offers college-prep, honors and Advanced Placement courses in French, Italian, and Spanish. The Italian program is new for 2017-2018. The plan is to grow Italian instruction in coming years, based on student interest. In order to fulfill graduation requirements, students must take a minimum of two consecutive years of a world language. As many colleges and universities favor three or four years of language study at the high school level, we encourage students to continue their study of a world language beyond the minimum requirements.

Our courses foster communicative competence through the practice of all four language skills: listening, speaking, reading, and writing. Moreover, through exposure to literature, art, music, and films of the countries where the target language is spoken, our students gain an understanding of other cultures' people, products, practices and perspectives.

FRENCH 1 – 412

1 Credit

French 1 is for students who have never studied French before or have had very little French at the middle school level. Emphasis is on developing communicative competence by practicing listening, speaking, reading, and writing skills with basic structures and vocabulary. Developing an understanding of the customs and cultures of the French-speaking world is also emphasized. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted mostly in French and students are encouraged to speak as much French as possible.

Grades: 9, 10, 11

HONORS FRENCH 1 - 413**1 Credit**

Honors French 1 is for students who have never studied French before or have had very little French at the middle school level and are generally strong students academically. Emphasis is on developing communicative competence by practicing listening, speaking, reading, and writing skills with basic structures and vocabulary. Developing an understanding of the customs and cultures of the French-speaking world is also emphasized. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted mostly in French and students are encouraged to speak as much French as possible.

Grades: 9, 10, 11

FRENCH 2 – 422**1 Credit**

French 2 is for students who have completed a French 1 course either at the middle school level or at the high school level. This course builds on the listening, speaking, reading and writing skills developed in level 1 and continues to explore the customs and cultures of French-speaking countries. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in French and students are expected to speak only French during class time. Please note: Incoming freshmen must take the department placement test to be considered for this level.

Grades: 9, 10, 11, 12

HONORS FRENCH 2 – 423**1 Credit**

Honors French 2 is for students who have completed a French 1 course either at the middle school level or at the high school level and are generally strong students academically. The course builds on the listening, speaking, reading and writing skills developed in level 1 and continues to explore the customs and cultures of French-speaking countries. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in French and students are expected to speak only French during class time. Please note: Incoming freshmen must take the department placement test to be considered for this level.

Grades: 9, 10, 11, 12

HONORS FRENCH 3 – 433**1 Credit**

Honors French 3 emphasizes building fluency and accuracy through more advanced listening, speaking, reading and writing activities. The course also focuses on developing a greater understanding of the customs and cultures of French-speaking countries. The National French Exam is taken in the spring. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in French and students are expected to speak only French during class time.

Grades: 10, 11, 12

HONORS FRENCH 4 – 443**1 Credit**

Honors French 4 continues to emphasize the building of fluency and accuracy through advanced listening, speaking, reading and writing activities. It also focuses on developing an even greater understanding of the customs and cultures of French-speaking countries. The National French Exam is taken in the spring. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in French and students are expected to speak only French during class time.

Grades: 11, 12

ADVANCED PLACEMENT FRENCH LANGUAGE AND CULTURE (VHS)– 444**1 Credit**

This is a challenging, college-level course for students who have had a minimum of four years of French (at least one year in middle school and Honors French 2, Honors French 3 and Honors French 4 in high school). The course prepares students for the various components of the AP exam: reading comprehension, listening comprehension, a formal email response, a persuasive essay using three sources, a recorded conversation, and a recorded cultural presentation. Students must take the AP exam in the spring in order to receive AP course credit.

Grade: 12

ITALIAN 1 – 414**1 Credit**

Italian 1 is for students who have never studied Italian before or have had very little Italian at the middle school level. Emphasis is on developing communicative competence by practicing listening, speaking, reading, and writing skills with basic structures and vocabulary. Developing an understanding of the customs and culture of Italy is also emphasized. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted mostly in Italian and students are encouraged to speak as much Italian as possible.

Grades: 9, 10, 11

HONORS ITALIAN 1 – 415**1 Credit**

Honors Italian 1 is for students who have never studied Italian before or have had very little Italian at the middle school level and are generally strong students academically. Emphasis is on developing communicative competence by practicing listening, speaking, reading, and writing skills with basic structures and vocabulary. Developing an understanding of the customs and culture of Italy is also emphasized. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted mostly in Italian and students are encouraged to speak as much Italian as possible.

Grades: 9, 10, 11

ITALIAN 2 – 428**1 Credit**

Italian 2 is for students who have completed an Italian 1 course either at the middle school level or at the high school level. This course builds on the listening, speaking, reading and writing skills developed in level 1 and continues to explore the customs and cultures of Italy. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in Italian and students are expected to speak only Italian during class time. Please note: Incoming freshmen must take the department placement test to be considered for this level.

Grades: 9, 10, 11

HONORS ITALIAN 2 - 429**1 Credit**

Honors Italian 2 is for students who have completed an Italian 1 course either at the middle school level or at the high school level and are generally strong students academically. The course builds on the listening, speaking, reading and writing skills developed in level 1 and continues to explore the customs and cultures of Italy. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in Italian and students are expected to speak only Italian during class time. Please note: Incoming freshmen must take the department placement test to be considered for this level.

Grades: 9, 10, 11

SPANISH 1 – 410**1 Credit**

Spanish 1 is for students who have never studied Spanish before or have had very little Spanish at the middle school level. Emphasis is on developing communicative competence by practicing listening, speaking, reading, and writing skills with basic structures and vocabulary. Developing an understanding of the customs and cultures of the Spanish-speaking world is also emphasized. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted mostly in Spanish and students are encouraged to speak as much Spanish as possible.

Grades: 9, 10, 11

HONORS SPANISH 1 – 411**1 Credit**

Honors Spanish I is for students who have never studied Spanish before or have had very little Spanish at the middle school level and are generally strong students academically; students must pass a placement test in order to enroll in this course. This course is taught at a faster pace than Spanish 1. Emphasis is on developing communicative competence by practicing listening, speaking, reading and writing skills with basic structures and vocabulary. Developing an understanding of the customs and cultures of the Spanish-speaking world is also emphasized. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted mostly in Spanish and students are encouraged to speak as much Spanish as possible.

Grades: 9, 10, 11

SPANISH 2 – 420**1 Credit**

Spanish 2 is for students who have completed a Spanish 1 course either at the middle school level or at the high school level. This course builds on the listening, speaking, reading and writing skills developed in level 1 and continues to explore the customs and cultures of Spanish-speaking countries. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in Spanish and students are expected to speak only Spanish during class time. Please note: Incoming freshmen must take the department placement test to be considered for this level.

Grades: 9, 10, 11, 12

HONORS SPANISH 2 - 421**1 Credit**

Honors Spanish 2 is for students who have completed a Spanish 1 course either at the middle school level or at the high school level and are generally strong students academically. Taught at a faster pace than Spanish 2, this course builds on the listening, speaking, reading and writing skills developed in level 1 and continues to explore the customs and cultures of Spanish-speaking countries. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in Spanish and students are expected to speak only Spanish during class time. Please note: Incoming freshmen must take the department placement test to be considered for this level.

Grades: 9, 10, 11, 12

SPANISH 3 - 430**1 Credit**

This course emphasizes a building of the listening, speaking, reading and writing skills learned in Spanish 2 with focus on more advanced structures, vocabulary and idiomatic expressions. The course also develops a greater understanding of the customs and cultures of Spanish-speaking countries. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in Spanish and students are expected to speak only Spanish during class time.

Grades: 10, 11, 12

HONORS SPANISH 3 – 431**1 Credit**

Honors Spanish 3 emphasizes building fluency and accuracy through more advanced listening, speaking, reading and writing activities. Taught at a faster pace than Spanish 3, the course also develops a greater understanding of the customs and cultures of Spanish-speaking countries. The National Spanish Exam is taken in the spring. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in Spanish and students are expected to speak only Spanish during class time.

Grades: 10, 11, 12

SPANISH 4 – 440**1 Credit**

Spanish 4 continues to emphasize the building of fluency and accuracy through advanced listening, speaking, reading and writing activities. It also focuses on developing a deeper understanding of the customs and cultures of Spanish-speaking countries. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in Spanish and students are expected to speak only Spanish during class time.

Grades: 11, 12

HONORS SPANISH 4 – 441**1 Credit**

Honors Spanish 4 continues to emphasize the building of fluency and accuracy through advanced listening, speaking, reading and writing activities. Taught at a faster pace than Spanish 4, the course also focuses on developing a deeper understanding of the customs and cultures of Spanish-speaking countries. The National Spanish Exam is taken in the spring. In order for students to have an immersive language experience which facilitates acquisition, the class is conducted in Spanish and students are expected to speak only Spanish during class time.

Grades: 11, 12

ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE – 461**1 Credit**

This is a rigorous, college-level course for students who have had a minimum of four years of Spanish (at least one year in middle school and Honors Spanish 2, Honors Spanish 3 and Honors Spanish 4 in high school). Taught exclusively in Spanish, the course prepares students for the various components of the AP exam: reading comprehension, listening comprehension, a formal email response, a persuasive essay using three sources, a recorded conversation, and a recorded cultural presentation. Students must take the AP exam in the spring in order to receive AP course credit.

Grade: 12

Classics Department

All students are required to take two consecutive years of a world language. Latin may be used to fulfill this requirement.

LATIN 1 – 417

1 Credit

This introductory course is designed for students who have had little or no previous study of the language. The focus is on the pronunciation, vocabulary, and grammar of Latin as well as the culture, history and mythology of ancient Rome.

Grades: 9, 10, 11

LATIN 2 – 418

1 Credit

Building on the knowledge gained in Latin 1, this course continues to emphasize the pronunciation, vocabulary and grammar of Latin as well as the culture, history and mythology of ancient Rome.

Grade 9 placement is determined by the results of the Latin Placement Test given in the spring.

Grades: 10, 11

Theology Department

All students are required to take four years of Theology, which includes a one semester elective their senior year. Active participation is expected in all classes.

CHRISTIAN SERVICE REQUIREMENT

Christian Service is an integral part of the educational process. To this end, Arlington Catholic High School has a Christian Service requirement. All students are required to complete sixty hours of service before graduation. During each of the Freshman and Sophomore years, twenty hours of service is required. Ten hours of service is required during each of their Junior and Senior years. The Campus Ministry office provides possible service placement opportunities. Other individual placement opportunities may be discussed with and must be approved by the Director of Campus Ministry.

THEOLOGY 1 – 510

1 Credit

FUNDAMENTALS OF CATHOLIC BELIEF

This course introduces the four-year Theology curriculum. Its purpose is to help the students examine and deepen their own understanding of the fundamental beliefs of the Catholic faith. Students explore the nature of God and faith and the meaning of God's call to act with unconditional love and live with a Catholic worldview. In addition, such basic doctrines as the Trinity, the Incarnation, and the Paschal Mystery are studied. Students are encouraged to apply these concepts to their own lives.

INTRODUCTION TO THE HEBREW SCRIPTURES

1 Credit

This course is designed as an introduction to the Bible as well as a study of the Hebrew Scriptures. It offers students an opportunity to read the Bible and learn how to understand and apply its truths to their own lives. Through a study of basic biblical themes, the course develops an understanding of how God has worked in human history and still works in our world today.

Grade: 9

THEOLOGY 2 – 5201 Credit**INTRODUCTION TO THE CHRISTIAN SCRIPTURES**

This course introduces students to the person and message of Jesus and continues the study of the Bible begun in the preceding course. It shows students how to understand the message of the Christian Scriptures in light of the Gospels. Students are given opportunities to apply Jesus' message to their own lives.

CHRISTIAN MORALITY

This course presents a Catholic understanding of the nature and meaning of morality based on reason and Revelation. Using Jesus as a role model, the course focuses on the Christian concepts of conscience development, moral law and freedom.

Grade: 10

HONORS THEOLOGY 2 – 5211 Credit

This course covers essentially the same material as the college-prep course. However, it offers students the opportunity to explore these concepts in more depth. Therefore, this course requires students to do additional reading, write quality essays, and engage in active, meaningful discussions.

Additional Requirements: Students must have a minimum grade of A- in Theology 1.

Grade: 10

THEOLOGY 3 – 530

1 Credit

SOCIAL JUSTICE

This course is designed to enable students to make mature, Christian decisions about complex world problems. Specifically, the course addresses national and global problems such as racism, sexism, a poverty and war. The responsibility of the Church to address these issues is examined through the study of pertinent Church documents, encyclicals and pastoral letters.

SACRAMENTS AND THE CHURCH

This course examines the concepts of sacredness and sacramental awareness from a Catholic perspective. The meanings of symbols and rituals are explored through the study of the sacraments and prayer of the Catholic Church.

Grade: 11

HONORS THEOLOGY 3 – 531

1 Credit

This course covers essentially the same material as the college-prep course. However, it offers students the opportunity to explore these concepts in more depth. Therefore, this course requires students to do additional reading, write quality essays, and engage in active, meaningful discussions.

Additional Requirements: Students must have a minimum grade of an A- in Theology 2 or a B in Honors Theology 2

Grade: 11

THEOLOGY 4**1 Credit****RELIGIONS OF THE WORLD – 541**

This course challenges students to develop a critically reflective approach to the study of the major religions of the world. This course explores the various forms of religious expression throughout history and into the modern world. Specifically, the students study concepts such as theism, atheism, cults, mythology and indigenous religion along with major religions such as Judaism, Christianity, Islam, Hinduism, Buddhism and the religions of Japan and China. The context of the course is our increasingly globalized, pluralistic world. The course aims to clarify how religious beliefs and practices shape and influence society, and how culture shapes and influences particular religions and our own religious experiences.

VOICE AND VISION - 543

This elective combines the fields of theology and communications. Students will be taught formal public speaking skills and group process techniques. Formal speeches (none of which require memorization) are part of this course, but the core of the course revolves around ethical and theological topics. Topics include lying and deception, liberation theology and Latin American politics, the Domination System and confronting evil, core questions of meaning and spirituality, self-knowledge and spiritual consciousness etc. In addition, students will explore biographical portraits of renowned Christian activists, peacemakers and theologians such as Thomas Merton, Stephen Biko, Dolores Huerta, Jane Addams and Oscar Romero.

EXAMINING THE PROBLEM OF EVIL: A CATHOLIC-CHRISTIAN PERSPECTIVE- 545

This course examines the Problem of Evil: what is evil, and why does it exist? The theological form of the Problem of Evil can be stated in this way: If God is all powerful and loving, then why is there evil in the world? However, we will see that this problem is not limited to religious believers, but is part of a much broader question about the issue of purpose and meaning in the world. This course will attempt to wrestle with the question of the Problem of Evil by examining traditional Christian theological answers to this problem such as: The Fall of Man and Original Sin, Christ's Atonement, and the Fall of Lucifer. In addition to the theological answers to the Problem of Evil, we will examine the intriguing contributions of modern social science to this question, particularly Social Psychology and the work of Philip Zimbardo in his landmark book *The Lucifer Effect*. Case studies will be drawn from various historical events such as the Witch Trials of Europe and America, the Jewish Holocaust, and the Rwandan Genocide.

CHRISTIAN LIFESTYLES – Required semester course in all senior electives

In this second semester course, students assess their own moral values in light of the Church's teachings on the issues of love, sexuality, personal identity and vocation.

Fine Arts Department

ART 1 - 751

1 Credit

This introductory course focuses on the basic skills and vocabulary of art. Techniques covered include: color theory, pencil-shading techniques, perspective, figurative gesture drawing, collage, introduction to sculpture and basic design layout. Home assignments include short readings and occasional sketchbook/planning drawings. This course is recommended for students who have not had extensive previous art experience.

Grades: 9, 10, 11, 12

DESIGN – 752

1 Credit

This course focuses on different areas of design. Good craftsmanship is emphasized. Projects include: calligraphy, interior design, type exploration, corporate identities, page layout, advertising, and printmaking. Home assignments include the maintenance of a journal of ideas throughout the year.

Requirements: Previous average grade of “A” in primary school art classes and/or completion of Art 1.

Grades: 10, 11, 12

HONORS PAINTING AND DRAWING – 755

1 Credit

A variety of media is utilized in this course including: acrylic paint, watercolor, gouache, ink, graphite, pastel, colored pencil, pen and ink. Still life, observational, imaginative and abstract drawing and painting are explored. Home assignments include sketchbook drawings throughout the year.

Requirements: Previous average grade of “A” in primary school art classes and/or completion of Art 1.

Grades: 10, 11, 12

SCULPTURE - 754**1 Credit**

Three dimensional art making is studied in this course. Projects include: wire sculpture, jewelry making, paper making, figurative forms, ceramic vessels, and relief sculpture. Home assignments include the maintenance of a sketchbook/idea journal throughout the year.

Requirements: Previous average grade of “A” in primary school art classes and/or completion of Art 1.

Grades: 10, 11, 12

VISUAL ARTS STUDIO – 756**1 Credit**

This course is for advanced students who are thinking of applying to a college art program and pursuing an art-related career. Ability to work independently is required. Portfolio preparation and presentation are the main focus. Home assignments include drawings and conceptual planning in journal form throughout the year.

Requirements: Only with Permission of Instructor.

Grade: 11, 12

AP Capstone™

The College Board's AP Capstone™ is an innovative college-level program based on two new courses, AP® Seminar and AP Research, that complement and enhance discipline-specific AP courses. The program immerses high school students in the challenging practice of the critical skills, in an

interdisciplinary approach, that students need today. The ability to think independently, write effectively, research, collaborate, and learn across disciplines is essential for success in college and beyond.

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma™. This option allows students taking multiple AP courses to distinguish themselves to colleges and universities. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate™.



AP Capstone was developed in response to feedback from higher education. The two AP Capstone courses, with their associated performance tasks, assessments, and application of research methodology, complement the rigor of AP courses and exams by equipping students with the power to analyze and evaluate a variety of types of information with accuracy and precision in order to craft and communicate evidence-based arguments.

- Analyze topics through multiple lenses to construct meaning or gain understanding
- Plan and conduct a study or investigation
- Propose solutions to real-world problems
- Plan and produce communication in various forms
- Collaborate to solve a problem
- Integrate, synthesize, and make cross-curricular connections

AP SEMINAR - 160**1 Credit**

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and 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 written essays, and design and deliver oral and visual presentations, both individually and as part of a team. 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.

Students who are highly motivated and prepared for college-level course work are best suited for the program, but the program also benefits those students who show potential for AP course work but have not as yet enrolled in AP courses. Students should demonstrate curiosity about real-world issues, a willingness to take intellectual risks, and a dedication to acquiring the skills that colleges and universities value — critical inquiry, analysis, and research. In short, AP Capstone students have an interest in becoming curious, independent, and collaborative scholars. Above average grades in English are highly suggested.

This course may be used to fulfill the 3 Year Social Studies requirement.

Prerequisite: Instructor approval required. Students will be required to sign an enrollment contract and make a commitment to remaining in the course once enrolled.

Grades: 10, 11

AP RESEARCH – 161**1 Credit**

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 yearlong investigation to address a research question.

In the AP Research course, students further develop the skills acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of approximately 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

Prerequisite: AP Seminar is a prerequisite for AP Research. Instructor approval required.

Grades: 11, 12