



Program Guide 2021-2022

COURSE DESCRIPTIONS
&
REQUIRED TEXTBOOKS
&
Summer Assignments

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AP English, American Lit (CP and Honors), 10th Grade English (CP and Honors), AP US History

Graduation Requirements

(Effective with the Class of 2018)

English: 4 credits	Math: 4 credits
Social Studies: 4 credits	Science: 4 credits
Religion: 4 credits	Foreign Language: 2 credits
Fine Arts: 1 credit	*Physical Education: 1 credit
Electives: 1.5 credits	Health: .5 credit

TOTAL Credit requirement: 26 credits

*P.E. credit is acquired through participation in Athletics; each season of playing on or managing a sports team counts as .25 credit.

**ALL MSJ STUDENTS ARE REQUIRED TO PROVIDE 5 HOURS OF SERVICE
EACH ACADEMIC SCHOOL YEAR**

Religious Studies

Introduction to Catholic Christianity	
<p>This course serves as an introduction to the Catholic Christian faith, centered on the life, death, and resurrection of Jesus Christ. The objective of this course is to introduce students to the basic beliefs, practices, traditions, and teachings of the Catholic faith, as well as a foundational study of the Bible as the revealed Word of God. Students will learn to read and appreciate the Bible through the Catholic Church's approach to the study of scripture. A particular focus will be given to the theme of God's covenants with the human family, beginning with the People of Israel, and finding fulfillment in the final covenant through his son Jesus Christ. This course is designed for all 9th grade students, as well as transfer students to Mount Saint Joseph Academy.</p> <p>Required Texts: Students are required to have a hard copy of both texts.</p> <ol style="list-style-type: none"> 1. Understanding the Scriptures, Semester Edition [Just the textbook, not the workbook] 2. The Gospel According to Matthew (2nd Ed.): Ignatius Catholic Study Bible First Edition 	<p>Credits: 1 Level: 1st Year Prerequisites: None Duration: Full Year</p>
The Church: The Sacrament of Salvation	
<p>Focus on the theology of the Catholic Church, established by Jesus Christ and guided by the Holy Spirit, which continues the saving ministry of Christ in the world today. This course presents the mission of the Church; its teaching authority; the Sacraments as the primary means of transmitting God's grace; the role of the Blessed Virgin Mary, the Universal Call to Holiness; and the four marks of the Church.</p> <p>REQUIRED BOOKS: The Church: The Sacrament of Salvation - Semester Edition</p>	<p>Credits: 0.5 Level: 2nd Year Prerequisites: None Duration: 1st Semester</p>
The Sacraments: Source of Our Life in Christ	
<p>Examines how Jesus Christ instituted the Sacraments and entrusted them to his Church as a primary means of transmitting grace, which helps us to live the Christian life. This course presents each of the Seven Sacraments in its own chapter, explains how it is celebrated, and describes its purpose in the Christian life as an intimate encounter with Jesus Christ. It also examines Christian liturgy as well as popular prayers, devotions, and sacramentals.</p> <p>REQUIRED BOOKS: The Sacraments: Sources of Our Life in Christ- Semester Edition</p>	<p>Credits: 0.5 Level: 2nd Year Prerequisites: None Duration: 2nd Semester</p>
The Social Doctrine of the Catholic Church	
<p>This course introduces students to the social teachings of the Catholic Church, a rich body of thought covering love and family, law and justice, war and peace, wealth and poverty, rights and responsibilities, and freedom and obligation. This course shows how through the ages the Magisterium of the Church responds to social developments by interpreting Divine Revelation and teaching the demands of the</p>	<p>Credits: 0.5 Level: 3rd Year Prerequisites: None Duration: 1st Semester</p>

<p>Gospel with authority. The student will learn how Christ's divine love for others, especially the poor and most vulnerable, is present today in the Church's social doctrine and mission.</p> <p>Topics include:</p> <ul style="list-style-type: none"> • the unity of the whole human race, • social teachings in Scripture, distributive, legal, commutative, and social justice, • the necessity of the moral law, • a sampling of recent pastoral letters, • the dignity of human life, • and the social dimension of the Commandments. <p>REQUIRED BOOKS: The Social Doctrine of the Catholic Church - Semester Edition</p>	
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Our Moral Life in Christ	
<p>Our Moral Life in Christ presents the more complex theological concepts of the Catholic Faith. With particular emphasis on the Catechism of the Catholic Church and Papal writings on morality and ethics, this course provides the formation necessary to live a moral life and a foundation to pursue advanced theological studies.</p> <p>REQUIRED BOOKS: Our Moral Life in Christ - Semester Edition</p>	<p>Credits: 0.5 Level: 3rd Year Prerequisites: None Duration: 2nd Semester</p>

The Gospel According to Saint John	
<p>This senior level course leads students through an in depth study of the Gospel of John, using the biblical text itself and the Catholic Church's guidelines for understanding the Bible. Students will learn that of the four Gospel writers, John develops the most profound theology of who Jesus is, and what his mission as Messiah accomplished. Students will also focus on the importance of faith and obedience in John's Gospel, as well as the significance of the Blessed Virgin Mary, and the centrality of the Sacraments in the life of the Christian. The study will culminate in understanding John's favorite theme of God's love, and understanding Jesus' mission as the perfect example of his command to "love one another as I have loved you" (Jn 15:12).</p> <p>REQUIRED BOOKS: Students are required to have a hard copy of the text.</p> <ol style="list-style-type: none"> 1. The Gospel of John (2nd Ed.): Ignatius Catholic Study Bible Paperback 	<p>Credits: 0.5 Level: 4th Year Prerequisites: None Duration: 1st Semester</p>

Ecumenical and Interreligious Dialogue	
<p>Ecumenism and Interreligious Dialogue presents the teachings of the Catholic Faith on God's desire to unite all humanity to himself and to each other through his Church. As such, it includes both ecumenism—action toward reuniting separated Christians—and interfaith dialogue—relations with non-Christians.</p> <p>REQUIRED BOOKS: Ecumenism and Interreligious Dialogue - Semester Edition</p>	<p>Credits: 0.5 Level: 4th Year Prerequisites: None Duration: 2nd Semester</p>

English Language Arts Course Descriptions

<p>Literature, Grammar & Composition I [Honors and CP]</p> <p>This course presents a basic survey of various literary genres, including short stories, satires, essays, poetry, plays, and novels. Literary terminology is reviewed, and writing skills are developed with a focus on paragraph and essay development. Focus will be placed on developing a student’s writing style through various creative and academic writing assignments. Essentials of grammatical forms, structure, and mechanics are reviewed. Students will also learn about research techniques.</p> <p>HONORS & CP REQUIRED BOOKS: The Lion, the Witch, and the Wardrobe (C.S. Lewis), Romeo and Juliet (Shakespeare), Fahrenheit 451 (Ray Bradbury) and Frankenstein by Mary Shelley (ISBN 978-0486282114)</p> <p><u>Materials Needed:</u> 1 inch 3-ring binder with dividers and lined loose leaf paper</p> <p>All of these are available locally at Phoenix Books and students receive a discount by mentioning they are buying for their MSJ textbooks.</p>	<p>Credits: 1.0 Level: 1st Year Prerequisites: None Duration: Full Year</p>
<p>Literature, Grammar & Composition II [CP]</p> <p>This course is designed as a survey of literary genres, including short stories, poetry, plays, novels, and more. Class discussions emphasize the factual, literal, symbolic, and thematic levels of the works as well as how these elements are seen throughout the chosen literature selections. The processes of grammar and composition are emphasized, requiring all students to complete both analytical and creative writing assignments. Specific research techniques are taught which enable students to write a research essay using MLA format. Emphasis is also placed on building vocabulary, oral presentation, and active participation in class discussions.</p> <p>CP REQUIRED BOOKS: The Great Gatsby by F. Scott Fitzgerald (ISBN) Persepolis Book 1 (Marjane Satrapi), A Midsummer Night's Dream (Shakespeare), and The Hate U Give (Angie Thomas)</p> <p>Students will also be given PDF or printed materials to read.</p> <p><u>Materials Needed:</u> 1 inch 3-ring binder with dividers and lined loose leaf paper</p>	<p>Credits: 1.0 Level: 2nd Year Prerequisites: Literature, Grammar & Composition I Duration: Full Year</p>

<p>All of these are available locally at Phoenix Books and students receive a discount by mentioning they are buying for their MSJ textbooks.</p>	
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<p>Literature, Grammar & Composition II [Honors]</p>	
<p>This course presents an in-depth study of various literary genres, including short stories, poetry, essays, plays, and novels. Class discussion emphasizes the factual, literal, symbolic, and thematic levels of the works. Additionally, the processes of grammar and composition are emphasized, requiring all students to complete extensive works of both analytical and creative writing. Specific research techniques are taught which enables students to write a lengthy research essay in MLA Format. This course emphasizes the important aspects of the English language by requiring vocabulary building, oral presentations, and revision of written assignments, and active participation in class discussions.HONORS</p> <p>REQUIRED BOOKS: The Great Gatsby by F. Scott Fitzgerald (ISBN) Persepolis Book 1 (Marjane Satrapi), A Midsummer Night's Dream (Shakespeare), and The Hate U Give (Angie Thomas)</p> <p><u>Materials Needed:</u> 1 inch 3-ring binder with dividers and lined loose leaf paper</p> <p>All of these are available locally at Phoenix Books and students receive a discount by mentioning they are buying for their MSJ textbooks.</p>	<p>Credits: 1.0 Level: 2nd Year Prerequisites: <i>Literature, Grammar & Composition I</i> Duration: Full Year</p>

<p>British Literature CP (2021-2022 course study)</p>	
<p>This course is a survey of selected works from British literature from Old English through contemporary literature. An emphasis is placed on reading literature within its cultural context. Emphasis will also be placed on interpreting, analyzing, and responding to literature through the study of rhetorical strategies. It is expected that students will demonstrate and develop their writing skills and will participate fully in class discussions. Multiple in-depth writing assignments will be required, demonstrating the student's analytical and interpretive skills in addition to their ability to write a well-developed analytical paper using MLA format.</p> <p>A summer assignment is required for this course, due on the first day of class. Information for this assignment can be accessed here.</p>	<p>Credits: 1.0 Level: 3rd or 4th Year Prerequisites: <i>Literature, Grammar & Composition I & II</i> Duration: Full Year</p>

<p>REQUIRED BOOKS: Jane Eyre by Charlotte Brontë (ISBN 0393975428); Hamlet (Folger Edition) by William Shakespeare (ISBN 9780743477123); The Translator by Leila Aboulea (ISBN 0802170269)</p> <p>All of these are available locally at Phoenix Books and students receive a discount by mentioning they are buying for their MSJ textbooks.</p>	
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<p>British Literature Honors (2021-2022 course study)</p> <p>This course is a survey of selected works from British literature from Old English through contemporary literature. An emphasis is placed on reading literature within its cultural context. Emphasis will also be placed on interpreting, analyzing, and responding to literature through the study of rhetorical strategies. Students will develop their writing skills through analysis and structured rhetorical thinking. It is expected that students will demonstrate and develop their writing skills and will participate fully in class discussions. Multiple in-depth writing assignments will be required, demonstrating the student's analytical and interpretive skills in addition to their ability to write a well-developed analytical paper using MLA format.</p> <p>A summer assignment is required for this course, due on the first day of class. Information for this assignment can be accessed here.</p> <p>REQUIRED BOOKS: Jane Eyre by Charlotte Brontë (ISBN 0393975428); Hamlet (Folger Edition) by William Shakespeare (ISBN 9780743477123); The Translator by Leila Aboulea (ISBN 0802170269)</p> <p>All of these are available locally at Phoenix Books and students receive a discount by mentioning they are buying for their MSJ textbooks.</p>	<p>Credits: 1.0 Level: 3rd or 4th Year Prerequisites: <i>Literature, Grammar & Composition I & II</i> Duration: Full Year</p>
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<p>American Literature CP (2020-2021 course study)</p> <p>Through the exploration of the American character and the diverse voices that have shaped that character, students develop an understanding of what makes American literature unique throughout the world. By delving into a variety of genres and literary techniques students develop an ability to recognize themes and styles as used in poetry, short stories, novels, plays, journals, and essays. Close reading of the texts, critical thinking and analysis, discussion, creative projects, and</p>	<p>Credits: 1.0 Level: 3rd or 4th Year Prerequisites: <i>Literature, Grammar & Composition I & II</i> Duration: Full Year</p>
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<p>expository writing are required. Creating college-ready, independent readers and effective writers is the major focus of this course. Emphasis is placed on grammar and the broadening of each student's vocabulary. This course requires the completion of outside reading assignments. A seven to ten page term paper is required, using in-text citations and MLA format as noted in the course syllabus.</p> <p>REQUIRED BOOKS: Fahrenheit 451 (ISBN 0-345-41001-7); Red Badge of Courage (ISBN 13-978-0486264653); The Narrative of the life of Frederick Douglass (isbn 0-486-28499-9) The Crucible (ISBN 0-395-77551-5); To Kill a Mockingbird (ISBN 0-06-093546-4) Literature-The American Experience, Prentice Hall ISBN 13-978-0-13-366654-0</p>	
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American Literature Honors (2021-2022 course study)	
<p>This course introduces students to the major themes and periods of American literature. Through the exploration of a variety of genres and literary techniques, students develop an ability to recognize themes and styles used in poetry, short stories, novels, plays, journals and essays. Emphasis is placed on analysis in both discussion and writing through close readings of the texts. Throughout the course students examine the American character and the diverse voices which have shaped the American tradition in literature. Students also must concentrate on improving grammatical structure in their written work and broadening their vocabulary through word study. Students are expected to work independently and cooperatively. This course requires the completion of outside reading assignments. A lengthy term paper is required, using in-text citations and MLA format as noted in the course syllabus.</p> <p>REQUIRED BOOKS: The Scarlet Letter (ISBN 13-978-0451531353) ; A Lesson Before Dying (ISBN 0-375-70270-9) ; Their Eyes Were Watching God (ISBN 0-06-093141-8); The Narrative of the life of Frederick Douglass (isbn 0-486-28499-9); Red Badge of Courage (ISBN 13-978-0486264653) Literature-The American Experience, Prentice Hall ISBN 13-978-0-13-366654-0</p>	<p>Credits: 1.0 Level: 3rd or 4th Year Prerequisites: <i>Literature, Grammar & Composition I & II- Faculty Recommendation</i> Duration: Full Year</p>

Advanced Placement English, Literature & Composition	
<p>From the College Board: "AP English Literature and Composition is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works."</p> <p>This college-level class focuses on the ability to think critically, write and read independently, and synthesize analysis of ideas through class</p>	<p>Credits: 1.5 Level: 4th Year Prerequisites: <i>Literature, Grammar & Composition I & II- Faculty Recommendation - Summer Assignment Completion</i> Duration: Full Year</p>

discussion, presentations, and analytical and creative writing. By utilizing these avenues of learning, the students experience growth and build confidence in their abilities to think at critical, analytical, and interpretive levels. Written assignments, both short and long term, are an integral part of this course. Close attention is paid to each student's growth as a writer and their use of prescriptive grammar. Students work with both canonical and modern fiction throughout this class. This class places particular focus on style analysis and to the understanding of the literary techniques employed in great works of literature. Writing assignments are the foundation to this course, and will be structured in the latest MLA formatting. All students are required to take the National AP Literature & Composition Exam through the College Board. This exam occurs in May and has an associated fee (\$95 as of spring 2020). Students should check the credit-and-placement policy at the schools they are considering for AP credit acceptance information. For further information about CollegeBoard's AP program, includent student and parent resources, access <https://apstudents.collegeboard.org/>.

A summer assignment is required for this course, due on the first day of class. Information for this assignment can be accessed [here](#).

In addition to the books below, another long work will be chosen by the class during the school year to read and analyze as a part of the curriculum.

REQUIRED BOOKS: [Jane Eyre by Charlotte Brontë](#) (ISBN 0393975428); [The Translator by Leila Abouela](#) (ISBN 0802170269); [How to Read Literature Like a Professor by Thomas C. Foster](#) (ISBN 9780060009427); [Literature: An Introduction to Fiction, Poetry, and Drama \(Ninth Edition\)](#) by X.J. Kennedy and Dana Gioia (ISBN 0321272609); [The Awakening by Kate Chopin](#) (ISBN 9780142437322); [As I Lay Dying by William Faulkner](#) (ISBN 9780393931389)

All of these are available locally at Phoenix Books and students receive a discount by mentioning they are buying for their MSJ textbooks.

Mathematics Course Descriptions

Algebra I

<p>This course begins with a review of basic mathematics operations including addition, subtraction, multiplication, division, exponentiation with monomial expressions and the relation of these operations to the properties of real numbers. Applications of rational numbers and algebraic techniques to solve real-world problems are mastered. Initial study of linear equations and inequalities in one variable, their solutions and methods of presenting solutions is extended into solving systems in two linear variables and the forms of a line. Factoring is mastered. Students are introduced to rational algebraic expressions, quadratic equations, radical expressions, and exponential expressions.</p> <p>REQUIRED BOOK: ISBN: 978-0-7891-8915-8</p>	<p>Credits: 1.0 Level: 1st Year Prerequisites: <i>Pre-Algebra</i> Duration: Full Year</p>
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<p>Geometry CP</p>	
<p>Geometry is the branch of mathematics that covers deduction of properties, measurement and relationships of points, lines, angles and figures in space. This course focuses on the postulates and theorems of Euclidean geometry with the goal of expanding on each student's understanding of geometric terms and concepts. Deductive reasoning and comparison are incorporated into hands-on and collaborative explorations. Students use constructions, pattern matching and geometric axioms in two-column proofs to better understand the relationships of congruence and similarity. Basic algebra is required to calculate length, radius, angles, area and volume of two and three dimensional figures. Students are also introduced to the properties of right triangles, which is a precursor to Trigonometry.</p> <p>REQUIRED BOOK: Geometry, authors Bass, Charles, Johnson, Kennedy: ISBN 0-13-062560-4</p>	<p>Credits: 1.0 Level: 2nd Year Prerequisites: <i>Algebra I</i> Duration: Full Year</p>

<p>Geometry Honors</p>	
<p>Geometry is the study that begins with very basic definitions of points, lines, and planes, and extends to the study of any and all two dimensional figures in a plane. The coordinate plane is used extensively to study and to prove the properties of various figures, particularly triangles and quadrilaterals. Geometric theorems are used in two column proofs to verify the congruence or the properties of various figures. Circles and all of their properties are also discussed. Calculating the area of any two dimensional figure is examined. The trigonometric ratios are introduced in right triangles, along with their applications in real world scenarios.</p> <p>REQUIRED BOOK: Geometry, authors Bass, Charles, Johnson, Kennedy; ISBN 0-13-062560-4</p>	<p>Credits: 1.0 Level: 1st or 2nd Year Prerequisites: <i>Algebra I & Teacher Recommendation</i> Duration: Full Year</p>

<p>Algebra II</p>	
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<p>Algebra II begins with a review of the topics learned in Algebra I. Algebra II emphasizes systems of equations and inequalities in two and three variables and multiple methods of finding their solutions. Real exponents, higher degree equations and an introduction to coordinate geometry are also emphasized. Functions as mathematical models are used to represent and solve problems. Polynomials, rational, radical, exponential and logarithmic functions are introduced as well as basic counting and probability theory as time allows.</p> <p>REQUIRED BOOK: Algebra II</p>	<p>Credits: 1.0 Level: 3rd Year Prerequisites: <i>Algebra I & Geometry</i> Duration: Full Year</p>
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<p>Algebra II Honors</p>	
<p>Algebra II Honors begins with a review of topics learned in Algebra I. Algebra II Honors emphasizes systems of equations and inequalities in two and three variables and multiple methods of finding their solutions. Polynomial, rational, radical, exponential and logarithmic functions are studied using geometry, numerical techniques and algebraic methods. Technology is employed in the study of functions. The concept of the inverse is used to introduce logarithms and their applications to problem solving. Additionally, counting theory and basic probability are studied as time allows.</p> <p>REQUIRED BOOKS: Algebra II</p>	<p>Credits: 1.0 Level: 2nd and 3rd Year Prerequisites: <i>Algebra I & Geometry H with Teacher Recommendation</i> Duration: Full Year</p>

<p>Personal Finance</p>	
<p>The topics are not limited to but include: checkbook exercises with reconciliations, budgeting, savings and investing, CD's, bonds and securities (short term and long term), credit cards, taxes including 1040, 1040A and 1040EZ returns, insurance and annuities. Student development of financial responsibility is the objective in this course.</p>	<p>Credits: 0.5 Level: 3rd or 4th Year Prerequisites: <i>None</i> Duration: One Semester</p>

<p>Pre-Calculus</p>	
<p>Pre-Calculus expands on the concepts learned in Geometry and Algebra II, emphasizing non-linear functions as they apply to circular motion, trigonometric (equations, identities, graphs, inverse relations), complex numbers, polar coordinates, conic sections, logarithm and exponents, sequences, series and an introduction to limits. The course lays a foundation for students planning on taking calculus or other advanced mathematics courses. Included are calculator-based activities which are used to teach scientific concepts such as vector addition, calculation of angular velocity, instantaneous rates of change and slopes of nonlinear relations.</p> <p>Textbooks will be provided.</p>	<p>Credits: 1.0 Level: 3rd and 4th Year Prerequisites: <i>Geometry and Algebra II - Teacher Recommendation</i> Duration: Full Year</p>

Advanced Placement Calculus

Advanced Placement Calculus develops an understanding of the concepts of Calculus using verbal, geometric, numerical and algebraic techniques. Graphing calculators and computer applications are used as aids to understanding both computations and results. Emphasis is placed on the concept of functions, limits of functions, differentiation, and integration. The intention is to foster competence in our students which is equivalent to what they would attain when taking Calculus as a college freshman. The curriculum is closely aligned with the AP Calculus curriculum promulgated by the Educational Testing Services (ETS). All students are required to take the National AP Calculus AB Exam written by ETS. This exam occurs in May and has an associated fee (\$90 per exam was the rate in 2014). Most colleges and universities grant three to six college credits and allow for advanced mathematics placement for students who score well on the ETS AP Calculus examination. Students should check the credit-and-placement policy at the schools they are considering for AP credit acceptance information. Further information about CollegeBoard's AP Program, including student and parent resources, is accessible at <https://apstudent.collegeboard.org/>. Textbook will be provided.

Credits: 1.5
Level: 4th Year
Prerequisites: *Pre-Calculus and Teacher Recommendation*
Duration: Full Year

Science Course Descriptions

Earth Science CP & Honors	
<p>This is a required science course which examines the physical features of the Earth as well as the processes which are responsible for their formation. Between a mixture of lecture and lab, students will be given the basic background of geology, meteorology, hydrology, and many more Earth related sciences. Topics studied include: space, Earth's anatomy, the rock cycle, weather, glaciers, volcanoes, earthquakes, minerals, geologic time, streams and groundwater, environmental issues. Also covered are the techniques and methods scientists use to learn more about the Earth.</p> <p>Book: No book will be required for this class but you will need a 3 inch 3 ring binder to keep class packets and readings.</p>	<p>Credits: 1.0 Level: 1st Year Prerequisites: <i>None</i> Duration: Full Year</p>

Biology	
<p>Biology is an introductory level course. The goal of this course is to make Biology interesting and accessible to students. This course will give students a strong basic understanding about the world around them. Students will learn to make observations, plan and carry out experiments, represent data in meaningful ways, and analyze conclusions that they make based on experimentation. Students will also participate in group activities, discussion groups, and lab team activities. Topics that will be covered in this class include: cellular foundations of life, cell division and genetics, molecular biology and biotechnology, evolution and diversity of life, animal structure and function, and ecology.</p> <p>Book: No book will be required for this class but you will need a 3 inch 3 ring binder to keep class packets and readings.</p>	<p>Credits: 1.0 Level: 1st Year Prerequisites: <i>None</i> Duration: Full Year</p>

Biology Honors	
<p>This course is designed for the highly motivated science students interested in learning the biological principles of life. This course is rigorous and fast-paced and covers the same components of the Biology class listed above but at a much more in-depth level. This course also emphasizes critical thinking skills and laboratory skills.</p> <p>REQUIRED BOOK: Concepts in Biology (NOT THE BOOK TITLED BIOLOGY) Openstax.org https://openstax.org/details/books/concepts-biology to download for free. You can also order a hard print for \$29 on the same website. Just click the button that says Order Print Copy and it will redirect you to Amazon</p>	<p>Credits: 1.0 Level: 1st Year Prerequisites: <i>None</i> Duration: Full Year</p>

Advanced Placement Biology	
<p>This course is designed to offer high school students a solid foundation in introductory biology. This course is designed to expose students to many different biological concepts such as: the scientific method, genetics, botany, ecology, evolution, and taxonomy. Science is a process, and it is best learned that way rather than as unrelated facts. How scientists use their own experimental observations and results to continue their inquiries will be emphasized. Experiments and labs will be done when practical and available. This course is designed to assist students in developing an appreciation for the study of life and to help them identify as well as understand the unifying principles within the biological world. The process of inquiring and developing critical thinking skills are crucial for this course. All science, especially biology is a way of seeking additional knowledge, all current knowledge pertaining to biology is simply a result of inquiry. By the end of this course students should be able to connect new scientific concepts obtained in this class and have built a solid framework of biological knowledge and lab techniques.</p> <p>In May of each year all students are required to take the National AP Biology Exam created by ETS. This exam has an associated fee (\$93 per exam was the rate in 2017). Students should check the credit-and-placement policy at the schools they are considering for AP credit acceptance information. Further information about CollegeBoard's AP Program, including student and parent resources, is accessible at https://apstudent.collegeboard.org/</p> <p>Your book for this class is Biology for AP Courses by openstax, it is available for free online in both web view and PDF formats.</p> <p>Biology for AP Courses from OpenStax, Print ISBN 1-947172-40-9, Digital ISBN 1-947172-41-7</p> <p>Here is the link to the free textbook: https://openstax.org/details/books/biology-ap-Courses</p>	<p>Credits: 1.5 Level: 4th Year Prerequisites: <i>Bio & Lab, Chem & Lab, Pre-Calculus, Teacher Recommendation</i> Duration: Full Year</p>

Chemistry CP	
<p>Chemistry students explore the development of concepts, descriptive and mathematical as they relate to matter. Students learn atomic theory, atomic structure, periodic law, chemical nomenclature, equations, gas laws and</p>	<p>Credits: 1.0 Level: 2nd Year Prerequisites: <i>Algebra I</i></p>

<p>modern electronic structure. Students are also taught to understand chemical bonding, solutions, acids and bases, reaction rates and equilibrium. As time allows the class explores nuclear chemistry, electrochemistry and basic organic chemistry.</p>	<p>Duration: Full Year</p>
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<p>Chemistry Honors</p>	
<p>Chemistry Honors students explore the development of concepts, descriptive and mathematical as they relate to matter, however, in a detailed manner. Students in honors chemistry are taught to master concepts of matter, problem solving skills, critical thinking and laboratory skills. Students learn atomic theory, atomic structure, periodic law, chemical nomenclature, equations, gas laws and modern electronic structure.</p>	<p>Credits: 1.0 Level: 2nd Year Prerequisites: Algebra I - Teacher Recommendation Duration: Full Year</p>

<p>AP Chemistry</p>	
<p>This is a college level chemistry course which reviews what was covered in Chemistry CP/Honors and digs deeper into content that would be discussed in any college introductory chemistry class. Between a mixture of lecture and lab, students will be given the knowledge and skill set to tackle the AP Exam in May. Topics studied include: atomic structure, molecular/ionic compounds, thermodynamics, acids/bases, chemical reactions, equilibrium, intermolecular forces. Also covered is proper lab safety and scientific skills needed to succeed in the field of science. <u>No textbook required as all material needed will be provided in class.</u></p>	<p>Credits: 1.0 Level: 2nd Year Prerequisites: Algebra I - Teacher Recommendation Duration: Full Year</p>

<p>Physics Honors</p>	
<p>Physics is a science which studies matter, motion, forces, and energy. The first half of the course studies the mechanics of motion, and the forces which affect this motion. Newton's Laws of Motion are used to analyze motion and forces that act on an object. The use of vector analysis and trigonometry are employed to study forces and motions in two dimensions. The study of circular motion is extended to examine and learn about the motions of planets and satellites, which are all governed by the force of gravitational attraction. The second half of the course studies rotational motion, and the concepts of</p>	<p>Credits: 1.0 Level: 3rd Year, 4th Year Prerequisites: Algebra I, Algebra II, Trigonometry, Pre-Calculus (may be taken concurrently) Duration: Full Year</p>

<p>momentum and energy. Periodic motion is used to introduce the study of vibrations and waves. Properties of sound and light are also examined as time permits. Although the mathematics used in the course are not complex, only students with a strong aptitude for mathematics are encouraged to register for this course. Physics is primarily the learning of concepts and applying those concepts by analyzing situations as described in word problems.</p> <p>REQUIRED BOOK: College Physics, 6th Edition Volume 1 (softcover). Authors Wilson, Buffa, Lou. ISBN 0-13-195113-0</p>	
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<p>Human Anatomy & Physiology</p>	
<p>This course is designed to expand each student's knowledge of the structure, function, and complexity of the human organism. Topics covered include anatomical structures in various body systems. Emphasis is placed on the interactions of organs as they work together to maintain balance of homeostasis. Additional topics may include cellular and tissue organization, skeletal and muscle design and function, respiratory, circulatory, urinary, integumentary, endocrine, lymphatic, and the excretory and digestive systems. Pathology which is the study and effects of disease is integrated into the discussion of each of the systems. Students also receive an orientation to the various allied health fields. Students are expected to participate in lectures and discussions, conduct laboratory investigations, which may include microscopy and human performance, and to gather information on a variety of medical and health related topics. Computer technology is used to aid the learning process in general, and more specifically in completing assigned lab work.</p>	<p>Credits: 1.0 Level: 3rd Year, 4th Year Prerequisites: <i>Algebra I</i> Duration: Full Year</p>

<p>Health</p>	
<p>This course is all about you and the important decisions you make. It's also about having the correct information before making those decisions. We'll deal with real issues like nutrition, substance abuse, coping with stress, and sexual abstinence. Good health is both mental and physical. Making good decisions starts with knowing the facts, understanding the consequences, and having the confidence to choose well. A series of signposts will take you through the course providing information, direction, and a little encouragement. We'll also offer some important tools for communicating your feelings and opinions. We'll even talk about being a savvy consumer in a world of advertising, credit cards, and focus on earth friendly practices that will help the environment. This course comes with a long-term payoff. The good decisions you make now will set a positive direction you can follow for a lifetime. This course requires a CPR</p>	<p>Credits: 0.5 Level: 2nd Year Prerequisites: <i>None</i> Duration: One Semester</p>

certification course. If the cost of the class or schedule is an issue, you may choose the alternative CPR assignment.

Social Studies Course Descriptions

World Geography	
World Geography and Cultures invites students to examine the diversity of the natural environments and the diversity of cultural landscapes in the world today. Emphasis will be given to the geographical themes of location and place. Students will study about many different countries, their landscapes as well as the human characteristics that make each place unique. Students will gain an understanding and a respect for the governmental, economic and societal differences that contribute to the World's diversity. The second semester will have a greater emphasis on American and Global issues. A lot of	Credits: 1.0 Level: 1st Year Prerequisites: <i>None</i> Duration: Full Year

<p>these issues, ie. terrorism, education, immigration, international peace and human rights, are issues that will directly impact your student in the coming years and even now. We will look at the majority of the global issues from the White House and the majority of the global issues from the United Nations, as well as other sites. We are doing this not only to promote learning about different cultures but to learn about the issues around the globe.</p>	
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<p>World History</p>	
<p>This course is designed to study important events and eras of World History. This course takes an in depth look at the World from events such as the first civilizations, Greece and Rome, and the Middle Ages all the way up to more modern events, ie., the Enlightenment and Revolutions, the Industrial Revolution and the World Wars. Students will familiarize themselves with the important movers and shakers that played a role in developing the modern.</p>	<p>Credits: 1.0 Level: 2nd Year Prerequisites: None Duration: Full Year</p>

<p>United States History</p>	
<p>This course teaches American History from the discovery of America up to the present. Students “interact” with many different characters throughout American History as they learn about Columbus’ discovery of the continent, the torments of winter in Jamestown, the infamous Salem Witch Trials, the patriotism of the American Revolution, the creation of the American government, the seeds of change and the impending crisis that transformed into the Civil War. Students participate in historical events like the “Fire of the Revolution” as they jump from step to step in an attempt to discover one of the major “fire starters”. They follow clues in a “Race to Discovery History” in order to be the first to arrive in the far west. They learn the torments of slavery through an in-depth study in the fight for equality for all men and women. They will learn the repercussions of the end of the Civil War and understand why John Wilkes Booth assassinated Abraham Lincoln. Students “interact” with people who lived through the Industrial Revolution and will see clearly America’s hesitation in entering The Great War (World War I). Students are taught to understand the return to normalcy and the roaring twenties, the impacts of the Great Depression and the Dust Bowl, rejoicing over the election of FDR and the changes that emerged with the onset, and eventual victory in World War II, both at home and abroad. Students learn to understand the functions of the modern American government, and how these functions have evolved. Students come to appreciate individuals such as Dwight D. Eisenhower, John F. Kennedy, Buzz Aldrin, Lyndon Johnson, General MacArthur, Richard Nixon, Ronald Reagan, and many more important Americans of the modern era. Students receive new perspectives on events like Watergate, the Vietnam War, the Cold War, the Cuban Missile Crisis, the</p>	<p>Credits: 1.0 Level: 3rd Year Prerequisites: <i>World Geography & Global Studies</i> Duration: Full Year</p>

<p>Iraqi Wars, the assassination of John F. Kennedy, the impeachment of William Clinton, as well as current economic issues. This course is rigorous in reading, note taking, and writing. A lengthy term paper is required as reflected in the course syllabus. Students are given homework on a daily basis and tests and quizzes are given weekly. Book will be distributed by the Instructor.</p>	
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<p>Advanced Placement United States History</p>	
<p>In preparation for the Advanced Placement Exam in May, this course provides an analytical perspective on the history of the United States. Students are provided with information on the various eras, beliefs, cultures, peoples, and governmental bodies that have made up the history of the United States. The course is designed around tracking the development of the United States from her discovery through the modern age. The course will focus on themes including foundations for American democracy, diversity, conflicts both foreign and domestic, America's role in world affairs, and the development of modern American institutions. This class is rigorous and students are expected to complete primary source readings, novels, and textbook readings every day. Students must be able to interpret, discuss and offer opinions on a variety of writings. A lengthy writing assignment is apart of this course which includes MLA in-text and works cited citations as noted in the class syllabus. All students are required to take the National AP United States History Exam created by ETS. This exam occurs in May and has an associated fee (\$93 per exam was the rate in 2017). Students should check the credit-and-placement policy at the schools they are considering for AP credit acceptance information. Further information about CollegeBoard's AP Program, including student and parent resources, is accessible at https://apstudent.collegeboard.org/.</p> <p>REQUIRED BOOKS:</p> <ul style="list-style-type: none"> - AMSCO APUSH Review 2020 - Documenting US History by Jason Stacy <p>Summer Homework Assignment</p>	<p>Credits: 1.5 Level: 3rd Year Prerequisites: <i>World Geography/World History</i> Duration: Full Year</p>

<p>Government, Politics and Current Issues</p>	
<p>This course is designed to prepare the youth of America to become citizens of the United States and the World. The course takes an indepth look at the many different types of governments in the modern world including Republics, Monarchies, Dictatorships, Totalitarianism, Nazism, Fascism, Anarchies and Parliament. Students will familiarize themselves with the workings of the</p>	<p>Credits: 1.0 Level: 4th Year Prerequisites: <i>US History</i> Duration: Full Year</p>

American Government's Constitution and Constitutions around the world. Students will define "active citizenship" and comprehend the importance of being an "active citizen." We will focus on politics, and it's role in government and citizenship, by discussing the birth and development of political parties. Students will also discuss the current events that shape our world daily, by educating themselves about the world around them. Students will be required to listen to and/or watch daily news broadcasts. Key events will be highlighted. Throughout all, students will learn to become participants in the world.

**Handouts and Online Resources will be provided by instructor*

World Language Course Descriptions

Spanish I	
<p>This course introduces students to basic communication in Spanish and covers lessons on; numbers, days of the week, months and seasons, gender of nouns, plural forms of nouns, definite and indefinite articles, adjectives and adjective correspondence, present tense regular verb conjugations, and vocabulary and pronunciation. Students will also be introduced to Spanish speaking countries and geographic locations. The course is designed to have students develop basic conversational ability</p>	<p>Credits: 1.0 Level: 1st Year Prerequisites: None Duration: Full Year</p>

and reading comprehension, as well as learning basic writing skills. During the second semester, students will begin to learn irregular verbs in present tense, and direct and indirect object pronouns. They will continue to work on their conversational skills and learning about the culture.	
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Spanish II	
Spanish II is designed to build upon the skills acquired in Spanish I. This course continues the development of the basic skills of listening comprehension, speaking, reading, and writing through the study of grammatical structures and vocabulary. Additionally, the curriculum contains readings of relevant dialogues and stories as well as a presentation of individual projects. Spanish culture and geography are taught which helps the students to become more immersed in the subject matter. REQUIRED BOOK: Buen viaje Spanish 2 for Spanish 2/3 (Writing Activities workbook)	Credits: 1.0 Level: 2nd, 3rd, 4th Year Prerequisites: <i>Spanish I</i> Duration: Full Year

Spanish III: Advanced Grammar and Conversation	
Spanish III combines the study of Spanish grammar with the development of the basic skills of listening comprehension, speaking, reading and writing. Students develop these skills through grammar analysis, readings, compositions and presentations of student projects. The primary language used in teaching this class is Spanish. REQUIRED BOOK: Buen viaje Spanish 2 for Spanish 2/3 (Writing Activities workbook)	Credits: 1.0 Level: 2nd, 3rd, 4th Year Prerequisites: <i>Spanish II</i> Duration: Full Year

Fine Arts Course Descriptions

Art I	
Explore the visual arts in this survey course that will expose students to a wide variety of media and techniques used in visual communication. Students will learn how to use line, shape, space, texture, and color to compose compositions with rhythm and movement, balance, proportion, variety, emphasis, harmony and unity. They will use a variety of media in the areas of drawing, painting, two dimensional design, printmaking and sculpture. Students will participate in class critiques so they may learn how to evaluate the work of other artists as well as their own. They will	Credits: 0.5 Level: Open Prerequisites: <i>None</i> Duration: One or Full Year

also work on developing an artist statement which will be updated after each art course taken.	
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Art II	
Experienced art students will select an area of interest (drawing, painting, design, printmaking, sculpture). They will work with the instructor to further develop their skills in that area. More advanced techniques will be explored and refined in their chosen area. Work will be evaluated by the student and instructor and suggestions will be made to prepare the work for presentation. Students may begin working on a portfolio for college and/or AP Studio Art.	Credits: 0.5 Level: 2nd, 3rd, 3th Year Prerequisites: <i>Art I or Teacher Recommendation</i> Duration: One or Full Year

Art Portfolio	
A full year art course for students who have completed Art I and Art II. Students will continue working on developing skills in their chosen media. Students may work in any media they choose, two dimensional and three dimensional. As work progresses they will learn to photograph their work, edit the photographs, and write an artist's statement for their art portfolio. Work produced during the class as well as any prior work students wish to be included will be photographed. The digital images will be edited and put in sequence to best showcase the students' work. This digital portfolio will be a valuable tool for those students who wish to continue art in college or for those who wish to exhibit in shows or galleries.	Credits: 0.5 Level: 2nd, 3rd, 4th Year Prerequisites: <i>Art I or Teacher Recommendation</i> Duration: Full Year

AP Studio Art: 2-D Design Portfolio	
Design involves purposeful decision-making about using the elements and principles of art in an integrative way. In 2-D Design Portfolio, students must demonstrate an understanding of design principles as applied to a two-dimensional surface. The principles of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, and figure/ground relationship) are articulated through the visual elements (line, shape, color, value, texture, space). Any 2-D process or medium may be submitted, including but not limited to graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, printmaking, etc.	Credits: 1.5 Level: 3rd Year, 4th Year Prerequisites: <i>Art I or Teacher Recommendation</i> Duration: Full Year

AP Studio Art: Drawing Portfolio

AP Studio Art I: Drawing Portfolio teaches a very broad interpretation of drawing issues and techniques. Drawing is interpreted through types of painting, printmaking, and sculpture. Additionally drawing is examined in forms of design, abstract and observational works. Students work on a drawing portfolio which demonstrates their depth of investigation and process of discovery through the concentration section. In the breadth section, the student is asked to demonstrate a serious grounding in visual principles and materials techniques. The quality section permits the student to select their works that exhibit a synthesis of form, technique, and content. All students are required to take the National AP Art Exam created by ETS. This exam occurs in May.

Credits: 1.5
Level: 3rd Year, 4th Year
Prerequisites: *Teacher Recommendation*
Duration: Full Year

AP Studio Art: 3-D Design Portfolio

Design involves purposeful decision-making about using the elements and principles of art in an integrative way. In the 3-D Design Portfolio, students must demonstrate an understanding of design principles as applied to a three-dimensional object. The principles of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, and figure/ground relationship) are articulated through the visual elements (line, shape, color, value, texture). These issues are to be explored through additive, subtractive, and/or fabrication processes. Examples of approaches include figurative or non figurative sculptures, architectural models, metalwork, ceramics, and three-dimensional fiber arts, among others.

Credits: 1.5
Level: 3rd Year, 4th Year
Prerequisites: *Teacher Recommendation*
Duration: Three Semesters

Introduction to Instrument Music

Introduction to Instrumental Music classes are designed for students who would like to learn how to play a traditional band instrument for the first time. The primary focus for this class is on basic instrumental skill development and music reading. Specifically, students learn about reading and notation skills, sight reading, counting, and rhythmic development, equipment care/maintenance and effective practice habits. Students are expected to choose an instrument and stay with it for the length of the course, and are encouraged to enroll in concert band following the successful completion of this course.

Credits: None
Level: Open
Prerequisites: *None*
Duration: One Semester

Concert Band	
<p>This course is open to all brass, percussion, and woodwind players who wish to focus on improving their ensemble playing in a band setting. Development of musicianship and instrumental skills will be emphasized through performance in this band. Students will perform in the community (receiving community service hours) and in school concerts. These performances will be a course requirement. Students will meet every other day for ensemble rehearsal. In addition, each student receives private lessons to develop their technique, listening skills, and repertoire. Music studied may include elements of classical, jazz, folk, pop and rock technique and repertoire, as well as other styles. Students are expected to choose an instrument and stay with it for the length of their participation, and are encouraged to stay with the same instrument throughout their time at school.</p>	<p>Credits: 0.5 Level: Open Prerequisites: <i>Introduction to Instrumental Music or Teacher Recommendation</i> Duration: Full Year</p>
Choir	
<p>A full year course designed to provide an atmosphere for the enjoyment, appreciation and performance of all types of choral music. The improvement of voice quality, intonation, ability to read music, ability to sight-sing, and the overall development of musicianship are taught in conjunction with preparing each piece of music. The Choir performs at evening concerts, Friday Mass and other special events. Attendance at these performances and dress rehearsals are a course requirement.</p>	<p>Credits: 0.5 Level: Open Prerequisites: <i>None</i> Duration: Full Year</p>
Class Guitar	
<p>This course is designed to teach the concepts and fundamentals needed to perform on the guitar. Students will learn music fundamentals including proper technique, reading notation, fingerboard geography, rhythmic skills, style and interpretation, and performance etiquette. The course also includes, performances, listening, improvising, and learning to read standard music notation as well as tablature. This class will hopefully inspire the student to work independently, continue further study on guitar, and/or seek private instruction. This class will help set the stage for improvisation, composition, and student performance.</p>	<p>Credits: 0.5 Level: 3rd and 4th Year Prerequisites: <i>A minimum of 1 year of choir or band and Teacher Recommendation</i> Duration: Full Year</p>
Music Theory	
<p>This course is offered to students with substantial musical backgrounds (either formal, notation-based training, or significant amounts of</p>	<p>Credits: 0.5 Level: 3rd and 4th Year</p>

self-taught or “by ear” knowledge) who wish to become more familiar with musical structure, language, and notation; and/or to advance personal musicianship. The course includes: an introduction and review of the fundamentals and materials of music (notation, rhythm, melody, harmony, form, and texture); ear training, arranging and composition; harmonic and formal analysis of both Classical and Pop/Jazz works; Students will also be encouraged to write and perform their own compositions.

Prerequisites: *Teacher Recommendation*
Duration: **One Semester**

Elective Course Descriptions

Publications	
<p>The Publications class is designed to familiarize students with the tools for creating newsletters, marketing materials, the school yearbook, and more. Students will engage in planning their materials to target a specific market, developing themes, designs, and graphics. Skills taught will include the use of the yearbook software, advertising, designing advertisements for yearbook support, and how to use graphic design software. Grades will be based on individual and teamwork for class participation, meeting deadlines, class projects, and</p>	<p>Credits: 1.0 Level: 3rd Year, 4th Year Prerequisites: <i>None</i> Duration: One Semester</p>

more. This course is open to juniors and seniors with seniors receiving priority admission.	
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Power of the Pen: Creative Writing with Purpose	
<p>In this course, students will read and write in a variety of forms and styles of both poetry and prose to study how others have used the artistic medium of writing to illuminate societal issues, personal experiences, and facilitate change. Each student will write their own piece for each genre of written expression we explore and will engage in peer editing and roundtable discussions. Students will learn how to harness the written word for both academic and creative projects and improve their vocabulary, grammar, structure, and emotive writing. Students will publish a literary magazine for the school community that will be published on the Mount St Joseph Academy website and printed for distribution in the school.</p> <p>No textbook is required, but students will need a notebook every day for class.</p>	<p>Credits: 0.5 Level: 2nd, 3rd, or 4th Year Prerequisites: <i>None</i> Duration: One Semester</p>

Research Methods	
<p>In this course, students will learn how to conduct college-level research including using reference libraries, internet databases, scholarly journals, and determining the veracity of source material. This class is project-based, college-preparatory, and includes writing and presentation elements.</p> <p>No textbook is required, but students will need a 3 ring binder (minimum 1”), paper, highlighters, pen/pencil each day for class.</p>	<p>Credits: 0.5 Level: 3rd, or 4th Year Prerequisites: <i>None</i> Duration: One Semester</p>

Research Capstone Project	
<p>Students who have completed the Research Methods course will apply their skills and knowledge to a semester-long project of their choice. This project-based course includes such college-level skills and tasks as a multi-step drafting process, peer and instructor conferencing, project proposal process, and a research presentation and essay.</p> <p>No textbook is required, but students will need a 3 ring binder (minimum 1”), paper, highlighters, pen/pencil each day for class.</p>	<p>Credits: 0.5 Level: 3rd, or 4th Year Prerequisites: <i>Research Methods</i> Duration: One Semester</p>

