

# St. Joseph High School

## Course Selection Catalogue:

2009-2010



**Excellent Catholic Education \* Every Student \* Every Day**

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## The Arts Department (100)

### ART 1 (152)

Weight: Regular

The Art I course is the foundation level for art study throughout high school. The course is primarily devoted to deliberate and systematic presentations of various art processes, procedures, theories, and historical developments. Students will have experiences in producing two-dimensional and three-dimensional artworks. The course emphasizes the study of the elements of art and principles of design, color theory, vocabulary, art criticism, art history, and safety in the art room. Each student works toward building a portfolio of artwork that meets the criteria for advanced coursework and reflects his or her unique vision. Problem solving and decision making are emphasized throughout Art I.

**(Elective)**

### ART 2 - Visual (165)

Weight: Regular

The Art II course builds on the student's technical skills and foundation of knowledge developed in Art I. The study of the elements of art and principles of design, color theory, vocabulary, art history, and more formal critique experiences continues in Art II. Through class discussion, students will refine

their understanding of the principles of design. Various art processes, procedures, and theories are presented in a problem-solving manner which allows for independent choices and personal solutions to problems. The approach to art experiences is less experimental and based more on informed choices. Student research of art and artists is a major source for gaining knowledge and understanding of past and present art forms.

**(Elective)**

### SCULPTURE (172)

Weight: Regular

This is a course that is centered on the development of Design and Mixed Media and on three-dimensional projects. Students will understand & apply the elements and principles of art to 3-D media. Emphasis is on craftsmanship and knowledge of specific tools and materials as well as the study of styles in art history and in the work of various sculptors. Media exploration is achieved through a variety of sculpture materials and techniques.

**(Elective)**

### Yearbook/ Photojournalism (380)

Weight: Regular

This is a hands-on, activity-based course which focuses on the development of art, computer, and writing skills leading to specific finished products. Students will learn how to use a digital camera and the appropriate software to edit digital

photographs in the fundamentals of photographic composition. They will learn how to use publishing and photo editing software and learn to use the computer as an art medium. Students will have an opportunity to improve their writing skills with developing headlines, captions, interviews, polls, and stories. Students will develop organizational and responsibility skills involved in publishing and meeting deadlines as they prepare two yearbooks, a traditional printed yearbook and an electronic yearbook.  
**(Elective)**

#### MUSIC I (105)

Weight: Regular

This is a full year course designed to give students with a serious interest in music an introduction to the components of melody, rhythm and harmony and to expose them to music over history, from ancient to classical to popular music.  
**(Elective)**

#### CHOIR (106)

Weight: Regular

Students in choir class will learn the fundamentals of formal singing training and will prepare for various functions as the school choir. Students will be introduced to the fundamentals of music reading and solfeggio (sight singing).  
**(Elective)**

#### THEATER ARTS (185)

Weight: Regular

Students will learn about the theater and about various aspects of stage performance. Students will practice singing, acting and dancing and they will also learn about aspects of stagecraft. They will also study various iconic plays.

**(Elective)**

### Business and Technology (200)

#### ACADEMIC MAINTENANCE (286)

Weight: Regular.

Freshmen are required to take this course. Here, they will learn good work habits and organizational skills; improve reference and study skills; improve time management skills and improved test-taking skills. Students will also learn applications of technology for learning, including skills of data management and work processing, among other computer skills. **(Mandatory Freshman Course)**

## TECHNOLOGY LITERACY AND EDUCATION

(222)

Weight: Regular

This course covers the social aspects of technology, with an understanding of lifelong, personal and workplace needs. It will also cover the legal, as well as the ethical aspects of technology. It introduces E-commerce and shows students how to design web sites. This course takes students on a comprehensive tour of every facet of electronic commerce. They work through hands-on e-commerce projects; and discover how to use their skills in reading, writing, science, and math to resolve e-commerce questions, deal with real life situations.

**(Mandatory Sophomore Course)**

## DESKTOP PUBLISHING

(262)

Weight: Regular.

Desktop Publishing will acquaint students with how to create, format, illustrate, design, edit, and print various kinds of publications. Students will create a variety of documents such as flyers, brochures, newsletters, and business cards. Students will produce multimedia presentations that communicate effectively through good design and application of basic concepts.

Website Production, use of sound, animation, and scanning will be introduced and applied in software packages, such as PowerPoint, Flash, Microsoft Publisher, Adobe Illustrator,

Photoshop, etc. Students will have access to a video camera, a digital camera, VCR, TV, color and laser printers to help create their projects. Students are allowed to choose their own topics for some of the projects and will spend most of their time working independently.

The student needs to be highly motivated and focused on project deadlines, as they would have to be in industry. Students will keep their projects in a portfolio.  
**(Junior/Senior Elective)**

## ACCOUNTING

(272)

Weight: Regular.

Accounting, a full-year course, provides an understanding of the basic elements and concepts of double-entry accounting systems. Accounting teaches how businesses keep their records and how those records are used to make management decisions. Activities include entering transactions in journals, posting to ledgers, end of period statements and reports, payroll systems and banking systems and services, and checkbook management. Students will learn to plan, summarize, analyze and interpret financial information. Business forms are used in class on a daily basis and a portion of each chapter's practice material is done on the computer using commercial accounting software. Every student who plans to work in any field of business should take this course.

**(Junior/Senior Elective)**

BUSINESS LAW WITH AN  
INTRODUCTION TO MARKETING  
(284)

Weight: Regular.

This course is designed to introduce students to business concepts and particularly how they are related to ethics and the law. Students will study various legal and ethical aspects of many cases, while learning to brief the cases they study. Students will experience a mock trial. During the last quarter, they will study and analyze the concepts and applications of marketing.  
**(Junior/Senior Elective)**

MULTIMEDIA PRESENTATIONS  
(285)

Weight: Regular.

**(Prerequisite of Desktop Publishing or  
Teacher Recommendation)**

In this course, students will learn to design and present multimedia presentations by using computer technologies and peripheral technologies like digital cameras, scanners, etc. Student will learn, among others, to use Powerpoint, Movie Maker, Quick time, Illustrator, etc. **(Senior Elective)**

English  
Department (300)

ENGLISH I  
(312)

Weight: Regular.

This first-year English course concentrates on basic language skills, test and study skills, vocabulary development, word usage and principles of good communication with a goal toward writing perfect college-style papers. In addition, students will be introduced to advanced interpretation of the four traditional literacy genres (drama, poetry, short stories and the novel) as well as the more modern genre of film (films which are not based on novels—films for films' sake).

HONORS ENGLISH I  
“ADVANCED STUDIES OF  
LITERATURE AND COMPOSITION”  
(311)

Weight: Honors

This course will offer higher-level studies of texts studied in regular English I as well as studies of more challenging texts.

FRESHMAN WRITING  
(382)

Weight: Regular

This is a writing course required of all freshmen. This course is designed to give students practice in academic writing applications, including research, rhetorical mode essay writing and other applications. Students will also reinforce their understanding of grammar, style and form in writing. They will learn to write with clarity, brevity and precision in the high school environment.

ACCELERATED/AP PREP.  
ENGLISH I  
(311)

Weight: Honors

Accelerated students will study the genres of literature with an aim toward participation in the AP program in their senior year. Their study of the genres will be intense, including a very careful study of the mechanics and traditional approaches to literary interpretation. Students in this program will also move further toward mastering their academic writing skills.

The writing and reading in this course will be intense.

ENGLISH II  
“AMERICAN LITERATURE AND  
COMPOSITION”  
(322)

Weight: Regular.

In this course, students will continue to develop their skills in writing and speaking in the rhetorical modes. In writing, the more “sentence level” concerns will now take a “back seat” to development of style and approaches to organization and content. The emphasis for this course’s studies is American Literature in all genres, including film. Students will study the works of American writers from the Colonial era to the Twenty-First Century. One of the end goals of the class is that each student formulates an opinion as to what it is that makes literature “American”—outside of geography. Students will move closer to college-level interpretation of literature.

HONORS ENGLISH II  
“ADVANCED STUDY OF  
AMERICAN LITERATURE AND  
COMPOSITION”  
(321)

Weight: Honors  
**(Prerequisite – B or better in Honors  
English II)**

Honors English II will cover the same basic concepts and skills, but students will also sharpen thinking skills and gain a through understanding of “philosophy” as it applies to literature and as a written discipline of its own. Harder questions will be asked and more writing will be required of honors students.

ACCELERATED/AP PREP  
ENGLISH II  
(320)

Weight: Honors  
**Prerequisite: an “A” in honors or a  
“B” in accelerated English and  
teacher recommendation. Students  
may be asked for a writing sample.**

Students will continue preparation for participation in the AP program during their senior year, this time through the study of American Literature. Critical and analytical skills will continue to be developed, as will academic writing issues. On this level, students will be approaching college-level work.

The reading workload will be intense.

ENGLISH III  
"BRITISH LITERATURE AND  
COMPOSITION"  
(332)

Weight: Regular.

This writing/literature study course is based on a survey of the great writers of Britain, from the earliest writings in English to writers of the modern period. This class has a more "literary" feel than the other three years of English. Most writings are based on works read and the final research paper is a literary research in the classic tradition of such papers. The idea of logical argumentation is introduced and practiced. This year, students begin to get a sense of the "feel" of an academic, college-style class in earnest; yet, modern elements of study and comparison are still incorporated into the curriculum. Emphasis on writing becomes even heavier at this level. Perfect papers are the goal.

HONORS ENGLISH III  
"ADVANCED STUDIES OF BRITISH  
LITERATURE AND COMPOSITION"  
(331)

Weight: Honors  
**(Prerequisite – B in  
Honors English II)**

Depth of analysis and workloads will be more intense in Honors than in Regular English sections. More challenging works are included in the readings list.

ACCELERATED/AP PREP  
ENGLISH III  
(330)

Weight: Honors

**Prerequisite: an "A" in honors or a "B" in accelerated English and teacher recommendation. Students may be asked for a writing sample.**

Students will practice analysis and critical reading by studying the great works of British Literature. The academic essay will be mastered. Reading will be intense. At the end of this year, students will be prepared for the demands of AP English and, as a result, for the demands of college literary study.

The writing and reading in this course will be intense.

ENGLISH IV  
"WORLD LITERATURE AND  
COLLEGE COMPOSITION"  
(342)

Weight: Regular.

The most significant difference between this year and the previous three is the concentration on writing as a process where students will be able to write and edit all types of papers using a variety of rhetorical modes of expression. In fact, the course culminates with an original formal valediction from every senior. Students will now get a chance to study works of authors from around the world, in cultures that are not necessarily European or American. Works studied will include those of French, Spanish, Japanese, African, Greek, and Indian authors, among others. Students will, through studies of these literatures, learn to broaden their thinking and moral conventions. The end goal is to produce students who are familiar with the upcoming procedures of a college classroom and who are worldly enough,

intellectually, to function among the broader base of human interaction to which they will soon be exposed.

HONORS ENGLISH IV  
“ADVANCED STUDIES OF WORLD  
LITERATURE AND COLLEGE  
COMPOSITION”  
(341)

Weight: Honors  
**(Prerequisite – B in  
Honors English III)**

Honors seniors will cover the issues and skills listed above, but more emphasis will be placed on depth of analysis and on the rhetorical approach to college essay writing.

ADVANCED PLACEMENT ENGLISH  
(340)

Weight: AP

**(Prerequisite: an “A” in Honors  
English and teacher recommendation.  
Students may be asked to submit a  
writing sample)**

This course is a college-level course whose successful completion allows students the opportunity to “place out” of three credits of college work by scoring well on the AP test in Literature and Composition. Works studied are works written by British and American authors. The course contains a lot of reading outside of class as well as three books to be read over the summer. The workload is intense and the writing should prepare students for college-level composition, especially since these students may place out of college composition 101. The writings in AP English are all to be literature-based.

A thematic approach to the material is recommended, but instructors will provide adequate historical context for each piece studied.

CREATIVE WRITING  
(352)

Weight: Regular.

This is an elective course that is designed to expose juniors and seniors to composition in all of the games of creative writing: poetry, fiction, drama, musical lyrics etc. Students with serious interest in writing creatively will thrive in an environment of active writing and philosophical discussion. The class is designed not only to inspire students to write creatively but to teach them to think “outside the box” – a skill now valued in every field of endeavor, from academics to the arts to the business world. Creative teaching can be expected, but will be held to serious standards. A great deal of writing should will done.

SAT PREPARATION  
(362)

SAT Preparation is a mandatory class for juniors that is in the physical education rotation. In this class, students will be given instruction on the SAT exam. The class will be focused on learning how to approach SAT questions. Its primary goal is to take away the fear of the unknown – to make students comfortable with the format, pitfalls and problems on the SAT exam. The course covers both the English and Mathematics portions of the exam.

LITERATURE OF FANTASY AND  
SCIENCE FICTION  
(372)

Weight: Regular

This is a course for students with a serious interest in literature and film. The course will explore the fantasy and science fiction genres from ancient times through modern novels, fiction and film.

Yearbook/ Photojournalism  
(380)

Weight: Regular

This is a hands-on, activity-based course which focuses on the development of art, computer, and writing skills leading to specific finished products. Students will learn how to use a digital camera and the appropriate software to edit digital photographs in the fundamentals of photographic composition. They will learn how to use publishing and photo editing software and learn to use the computer as an art medium. Students will have an opportunity to improve their writing skills with developing headlines, captions, interviews, polls, and stories. Students will develop organizational and responsibility skills involved in publishing and meeting deadlines as they prepare two yearbooks, a traditional printed yearbook and an electronic yearbook.

**(Elective)**

Health and Physical  
Education (400)

PHYSICAL EDUCATION 1-4  
(412; 422; 432; 442)

Freshman, Sophomore, Junior and Senior Phys. Ed. classes are designed to help students increase muscle strength, agility and cardiovascular endurance. The courses will stress physical fitness, skill performance, sportsmanship and individual as well as team play. Instruction in and rules for various games and sports are given and opportunity for each student to participate is provided. Physical education encourages students to maintain a level of fitness through individual, team and lifetime activities.

PHYSICAL EDUCATION/HEALTH  
"FRESHMAN MENTAL HEALTH"  
(452)

This is a single quarter course designed to give students instruction in health and mental wellness. Principles of health as related to the body and mind will be addressed as will the issue of drugs and our society.

PHYSICAL EDUCATION/HEALTH  
"SOPHOMORE HEALTH:  
DRIVERS' EDUCATION"  
(462)

Students will be prepared for the New Jersey State written driver's examination. They will also be instructed on principles of safe driving.

PHYSICAL EDUCATION/HEALTH  
"JUNIOR HEALTH: FIRST AID"  
(472)

Students will be instructed on the administration of basic first aid.

PHYSICAL EDUCATION/HEALTH  
"SENIOR HEALTH"  
(482)

This course is designed to help students examine their lifestyles, set goals, and make plans to achieve optimum health. Students will learn to differentiate between healthful and risky behaviors, and will recognize the effects of the behaviors they choose. Students in this class are part of an age group that is more subject to avoidable health risks. The importance of sound decision making skills and promotion of good health standards are emphasized and encouraged.

**Mathematics  
Department (500)**

ALGEBRA I  
(512)

Weight: Regular.

The Algebra I course concentrates on the understanding of algebraic concepts and processes of both equations and expressions. Students will be able to use the above concepts to represent and analyze relationships, variable quantities and to problem solve, with real life situations.

HONORS ALGEBRA I  
(511)

Weight: Honors

The difference between Algebra I and Honors Algebra I is the pace and the depth of the work, as well as the volume and intensity of the work assigned to each class.

ACCELERATED  
ALGEBRA I/GEOMETRY  
(510)

Weight: Honors

This course concentrates on an understanding of algebraic concepts and processes. Students will be able to use them to represent and analyze relationships, variable quantities and to solve problems. This course is designed for the student who has a strong background in basic Math skills and has excelled in a Pre-Algebra course. The first three marking periods of this course will cover all the topics in the algebra one curriculum. The fourth marking period will continue with the beginnings of Algebra Two and SAT preparations. Accelerated algebra one will provide the student with the needed background to continue with Geometry and Algebra II.

GEOMETRY  
(522)

Weight: Regular.

This course will focus on angles, triangles, motion, quadrilaterals, circles and the beginnings of trigonometry. Students will come out with an understanding on real life situations and

how geometry can be applied to them. Students will also be better prepared for taking the SAT's upon completion of this course.

HONORS GEOMETRY  
(521)

Weight: Honors  
**(Prerequisite B or better in Honors Algebra I)**

Honors Geometry is designed for the student who has excelled in Algebra I. Honors Geometry will move at a faster pace and the level of difficulty will be higher than the regular Geometry course.

ACCELERATED  
GEOMETRY/ALGEBRA II  
(520)

Weight: Honors  
**(Prerequisite B or better in Accelerated Algebra I/Geometry)**

Accelerated Geometry is designed for students who have completed Accelerated Algebra I and one quarter of Accelerated Geometry. The pace of the class is faster and the level of difficulty is greater than that of Honors Geometry, while covering concepts that are listed in the honors section (Geometry and Algebra II) of this course catalog. Students will finish the Geometry curriculum by January and begin Algebra II.

ALGEBRA II  
(532)

Weight: Regular.

Our Algebra two course concentrates on skills that were mastered in Algebra I and Geometry. The topics throughout this course include a quick review of polynomials, linear equations and exponents. The course continues with factoring and the sum and difference of cubes; absolute value equations and inequalities by factoring and by formula; graphing and quadratic equations; long division; complex numbers; rational exponents and radical expressions and an introduction to functions and relations.

HONORS ALGEBRA II  
(531)

Weight: Honors  
**(Prerequisite B or better in Honors Geometry)**

Our Algebra Two course concentrates on skills that were mastered in Algebra One and Geometry. The topics covered in this course will provide the student with the tools to be successful in future Mathematics courses. This class moves at a faster pace than regular Algebra II and the level of difficulty of the problems will be increased.

PRE-CALCULUS  
(552)

Weight: Regular.  
**(Prerequisite C+ or better in  
Algebra II)**

This course is designed to reinforce algebraic and geometric concepts and to utilize them in logical situations. The primary focus is to help students think logically and develop a methodical approach to problem solving. Functions, graphing, synthetic division, and trigonometry are taught in preparation for Calculus. A passing grade in Algebra II is prerequisite.

HONORS PRE-CALCULUS  
(551)

Weight: Honors  
**(Prerequisite B or better in  
Honors Algebra II)**

This course covers more topics than Pre-Calculus and moves at a faster pace. Topics of study include graphing polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, systems of equations and inequalities, matrices and conic sections. This course covers more topics than Pre-Calculus and moves at a faster pace.

ACCELERATED  
ALGEBRA II/ PRE-CALCULUS  
(551)

Weight: Honors  
**(Prerequisite B or better in  
Accelerated Algebra II/Pre-Calculus)**

This course will finish Accelerated Algebra II for the first quarter and covers the honors Algebra II topics described in this catalog. It will then finish the completion of Pre-Calculus and moving at a faster pace. Topics of Accelerated Pre-Calculus include graphing polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, systems of equations and inequalities, matrices and conic sections. This course covers additional topics to Pre-Calculus and moves at a faster pace.

HONORS PRE-CALCULUS  
(551)

Weight: Honors  
**(Prerequisite B or better in  
Honors Algebra II)**

This course covers more topics than Pre-Calculus and moves at a faster pace. Topics of study include graphing polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, systems of equations and inequalities, matrices and conic sections. This course covers more topics than Pre-Calculus and moves at a faster pace.

CALCULUS  
(541)

Weight: Honors  
**(Prerequisite B or better in Accelerated Algebra II/Pre-Calculus or teacher recommendation)**

This course is intended for students who have successfully completed the accelerated program and who have a thorough knowledge of analytic geometry and elementary functions as well a good understanding of algebra and trigonometry. Topics of this course include limits and continuity, differential calculus including taking a derivative and applying the derivative to related rate problems. Integral calculus will also be studied, which includes anti-derivatives and applications of the anti-derivatives. The curriculum develops the students' understanding of the concepts of calculus and provides experience, methods and applications. This course also includes one writing assignment per marking period. It is up to the teacher's discretion on when they assign the paper and what the topic will be.

**(Senior Level Course)**

HONORS STATISTICS AND  
PROBABILITY  
(552)

Weight: Honors.  
**(Prerequisite B or better in Previous Honors Math Course)**

This course is designed as an upper level honor's mathematic course. This course involves many aspects of statistics with detailed probability. The topics of study include frequency distributions and

graphs, data description, counting techniques, probability, discrete probability distributions, the normal distributions, confidence intervals and sample size, hypothesis testing analysis of variance, correlation and regression. Students will be required to work with a graphing calculator.

**(Junior/Senior Elective)**

ELEMENTARY STATISTICS  
(553)

Weight: Regular.  
**(Prerequisite C or better in Previous Math Course or Teacher Recommendation)**

This course is designed elementary level mathematics course. The topics of study include frequency distributions and graphs, data description, counting techniques, probability, discrete probability distributions, the normal distributions, confidence intervals and sample size, hypothesis testing analysis of variance, correlation and regression. Students will be required to work with a graphing calculator.

**(Junior/Senior Elective)**

Finite Mathematics  
For the Managerial, Life, and  
Social Sciences  
(554)

Weight: Regular.  
**(Prerequisite - Successful completion of Algebra 1, Algebra 2 and Geometry)**

This course teaches by application and uses real and realistic examples to

motivate students. It combines solid theory with innovative learning tools. This is an intuitive approach that introduces abstract concepts through examples drawn from common, real-life experiences to which students can relate. It highlights the careers of real people and discusses how they incorporate math into their daily operations.

**(Elective)**

**SAT PREPARATION  
(362)**

SAT Preparation is a class that is in the physical education rotation. In this class, students will be given instruction on the SAT exam. The class will be focused on learning how to approach SAT questions. Its primary goal is to take away the fear of the unknown – to make students comfortable with the format, pitfalls and problems on the SAT exam. The course covers both the English and Mathematics portions of the exam.

**(Mandatory Junior Level Course)**

**Religion  
Department (600)**

**FRESHMAN THEOLOGY  
DOCTRINE  
(612)**

Weight: Regular.

The freshmen study the foundational doctrines of the Church as outlined in the Creed. Topics include the Trinity, faith, and revelation. Students consider how God's love for humanity is made

manifest through creation, redemption in Christ, and the continual call to holiness. Students use the Didache textbook series as well as the Catechism of the Catholic Church.

**SOPHOMORE THEOLOGY  
SACRED SCRIPTURE  
(622)**

Weight: Regular.

This course is a survey of the Old and New Testaments, with emphasis on how the Scriptures provide the foundation for Christian belief and living. Through this study of salvation history, students explore God's relationship with His people. During their study of the New Testament, students learn the characteristics of the four gospels and are led to an understanding of the Person of Christ through the testimony of the four evangelists. Students use the Didache Series textbook as well as Sacred Scripture.

**JUNIOR THEOLOGY  
CHURCH HISTORY  
(632)**

Weight: Regular.

In this year, the students study the history of the Church and their membership in the Body of Christ. Through an understanding of the human person and the call to communion with Christ as the path to true human fulfillment, students are led to a deeper appreciation of the gift of the Church and the value of the sacraments as channels of divine grace. The Church's history is explored, with emphasis on the apostolic and patristic periods and the

renewal of the modern Church through the second Vatican Council.

SENIOR THEOLOGY  
MORALITY  
(642)

Weight: Regular.

Students will study the principles of morality and how these are applied to the questions posed in modern life. Morality, as outlined in the Scriptures, is presented with a special study of chastity. Students will also study medial ethics and other life issues. The Didache textbook series and the Catechism of the Catholic Church are used within this course.

INTRODUCTION TO PHILOSOPHY  
(643)

Weight: Regular.

In this course, students will be exposed to the major branches of philosophy. They will also explore the commonalities and divergences between these philosophies and Catholic teachings. Student will be encourages to write and think in greater depth.

**(Elective)**

FILM AND BIBLE  
(644)

Weight: Regular.

**(Elective)**

Science  
Department (700)

BIOLOGY  
(722)

Weight: Regular.

This is a survey class of biology. Topics covered include the structure and function of cells, genetics, microbiology, botany, and zoology. There are numerous labs to promote a hands-on learning environment including dissections.

**(Starting: 2009-2010 – Freshman Course)**

HONORS BIOLOGY  
(721)

Weight: Honors

**(Prerequisite B or better in Honors Physical Science)**

Honors Biology covers much of the same material as regular biology but in more depth. New topics include bacteriology, ecology, gene technology, and more recent advances in the biological field. This course is recommended for college-bound students.

CHEMISTRY  
(732)

Weight: Regular

Chemistry is the study of chemicals and their interactions. This course covers basic atomic structure, the periodic table, balancing equation, gas laws, pH, acids and bases, and other essential areas. Labs are an important part of this class. Math skills are necessary. This class is

recommended for college-bound students.

HONORS CHEMISTRY  
(731)

Weight: Honors  
**(Prerequisite: “B” in Honors Biology)**

In honors chemistry, students will move at a faster pace and study material in greater depth.

PHYSICS  
(741)

Weight: Honors  
**(Prerequisite - B in Honors Algebra 2, Honors Pre-Calculus, Honors Chemistry or teacher recommendation)**

This course is strongly recommended for those who are college bound. Topics explored include mechanics, heat, sound, light, and electricity. Problem solving skills are dealt with in depth since it is essential that students develop a logical and coherent pattern of reasoning and thinking in physics.

ANATOMY AND PHYSIOLOGY  
(752)

Weight: Regular.

This course will examine the structure, organization, function and biochemistry of the human body. Students will identify the integration between body systems and relate the mechanisms of health versus disease. Students will perform various labs and dissections to

assess their proficiency of anatomy and physiology.

ENVIRONMENTAL SCIENCE  
(762)

Weight: Regular.

This course studies the various ecosystems, the species that are intrinsic to these ecosystems and the ways in which these ecosystems work. It also studies the topics of water, air, atmosphere, and climate, land food, energy, waste and population growth. Also considered will be how man interacts with all aspects of the environment.

AP BIOLOGY  
(740)

Weight: AP  
**(Prerequisite – B in Previous Honors Level Science Course and teacher recommendation)**

This course is designed to meet the requirements of a biology course on the college level. It is designed to develop a deeper appreciation of the nature of scientific inquiry, and it is laboratory intensive. AP Biology will take students from the microscopic study of cells and tissues to the more complete study of organ systems of the various live forms. Students will be exposed to all seven levels of biological organization as well as issues in Human Biology and Bioethics. Students are expected to perform various labs, as required.

FORENSIC SCIENCE  
(772)

Weight: Regular.

**(Prerequisite – Instructor Approval)**

Forensics is an elective science course in which students learn the science behind crime and crime scene investigation. Students will experience forensic science through labs, field trips, and classroom study.

**Social Studies  
Department (800)**

WORLD CULTURES  
(812)

Weight: Regular.

World Cultures is a history course offered to give students a sense of the development of civilizations. Through the study of these ancient civilizations, students will gain an understanding of the foundations of our own. The course will present civilizations from the Ancient Greeks through the Europe in the Middle Ages.

UNITED STATES HISTORY I  
(822)

Weight: Regular.

United States History I is a course offered to sophomores. This course will cover several topics. Topics will include European exploration, the colonies, the Revolutionary War, formation of nation, state, and local governments, the War of 1812, the Industrial revolution, immigration, westward migration, and

the Civil war. United States geography and current events will also be included in the course.

US HISTORY II  
(832)

Weight: Regular.

United States History II is a course that is offered to juniors. This course will cover several topics, including Reconstruction, Life on the Frontier, the railroad and big business, the growth of urban American, politics in the Gilded Age, the United States and the World, the Progressive Era, World War I, the roaring 20's the Great Depression, and World War II.

AMERICAN GOVERNMENT  
(852)

Weight: Regular.

American Government is an elective course, which is offered to juniors and seniors. This course will cover several topics, including principles of government, origins of American Government, the Constitution, federalism, political parties, voters and voter behavior, the electoral process, mass media and public opinion, interest groups, Congress, powers of Congress, and Congress in Action.

20<sup>TH</sup> CENTURY UNITED STATES  
HISTORY  
(862)

Weight: Regular.

20<sup>th</sup> Century United States history is an elective course, which is offered to juniors and seniors. This course will cover several topics. Topics will include World War II, the Cold War, the Cold War politics, life in the 1950's the Civil Rights struggle, the Kennedy and Johnson years, the counterculture of the 1960's, the Vietnam War, Nixon to Carter, the Reagan and Bush years and major events of the 1990s.

**(Elective)**

PSYCHOLOGY  
(872)

Weight: Regular

Psychology is an elective course, which is offered to juniors and seniors. This course will cover several topics. Topics will include the broad coverage of the field of psychology, introducing theories and research, and applications that constitute the discipline. The course will also demonstrate how psychology can have an impact on the lives of the students including how psychology can increase students' understanding of the world around them. Finally, this course will illustrate the diversity both within the field of psychology and in society as a whole by presenting material that reflects the increasing concern with cultural, gender, racial, and ethnic issues.

**(Elective)**

ECONOMICS  
(882)

Weight: Regular.

Economics is an elective course, which is offered to seniors. This course will cover several topics. Topics will include choices made by consumers, businesses and the government, the development of economic systems, supply and demand, prices and quantity produced, market structures, business organizations, labor and the economy, money and banking, the financial markets, gross domestic product and growth, unemployment and inflation. Students will also work on a mortgage simulation project and a labor-management simulation. Finally, students will develop and calculate their stock portfolios twice per month.

**(Elective)**

CRIMINAL JUSTICE  
(892)

Weight: Regular.

**(Prerequisite: B in US History or Psychology)**

This course is offered to seniors who have an interest in pursuing further studies in law enforcement, law, corrections, or who simply wish to learn more about the criminal justice system in America.

The curriculum is designed to provide the student with a solid foundation of the fundamentals of American justice. The course will focus on principals of criminal justice, with emphasis on the police, judicial system, corrections and juvenile justice. Special attention will

be given to the Bill of Rights, and the rule of law, as it pertains to the American system of justice.

**(Elective)**

**GLOBAL STUDIES  
(893)**

Weight: Regular.

This is a social studies elective designed to give students a greater understanding of the world around them through collaborative research and collegial simulations like Model UN. Students in this class will use a variety of tools, including videoconferencing technology in an effort to explore pressing issues facing the world today.

**GLOBAL STUDIES II  
(893-B)**

Weight: Regular.

This second level continues to be an elective designed to give students a greater understanding of the world around them through collaborative research and collegial simulations like Model UN. Students in this class will use a variety of tools, including videoconferencing technology in an effort to explore pressing issues facing the world today.

**(Elective)**

**AP US HISTORY  
(894)**

Weight: AP

**(Prerequisite – B in Honors US  
History I and II or teacher  
recommendation)**

The AP program in United States History is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format.

## World Languages (900)

SPANISH I (912)  
FRENCH I(952)/ITALIAN I (992)  
RUSSIAN(998)

Weight: Regular.

Our First-year Foreign Language courses concentrate on basic language skills such as vocabulary development, pronunciation, and grammar including nouns, pronouns, adjectives, adverbs, and verbs in present and past tense. Reading, writing, listening and speaking skills will be developed and centered around promoting interest in the cultural heritage and varied geographical locations of the target language.

SPANISH II (922)  
FRENCH II (962)/ITALIAN II (994)

Weight: Regular.

Our Second-year Foreign Language courses repeat and expand on the major themes and concepts from level one. Vocabulary is reinforced and enhanced as new grammatical structures are introduced. Strategies and skill-building techniques will build on background information and allow the instructor more flexibility to expand the student's knowledge. In the second year, background knowledge serves as an important tool for construction of meaning. While mastering the new grammar and vocabulary students are encouraged to speak and write at continuously higher levels.

SPANISH III (932) AND SP IV (972)  
FRENCH III (962) and FR IV (982)  
ITALIAN III (996)

Weight: Honors  
**(Prerequisite: "B" average in subject  
and teacher recommendation)**

Our Third and Fourth-year Foreign Language courses recycle the major themes and concepts from previous years with fluency as the goal.

Third year will emphasize fine-tuning of grammatical structures with stress applied to writing and communication skills. Students in the advanced levels will go beyond rote memorization and explore ideas through oral communication and short stories.

Fourth year will challenge the students to practice and improve their comprehension skills. Concentration on literature is the obvious addition as fluency is being achieved. Suggested readings will follow the course curriculum

LATIN I (993)  
Open to all levels  
LATIN II (991)

Weight: Regular.

Studying Latin increases student's understanding of English. Students will understand roots, suffixes and prefixes and origins of English words and will gain a working reading and speaking knowledge of Latin