

**ST. JOSEPH'S PREPARATORY SCHOOL
PROGRAM OF STUDIES
2011-2012**

GRADUATION REQUIREMENTS

In order to graduate from Saint Joseph's Preparatory School, a student must earn a minimum of 26 academic credits as outlined below satisfy the State of Pennsylvania requirement for physical education and fulfill community service requirements through our Ignatian Service Program.

Religious Studies-----	4 credits
English-----	4 credits
Mathematics/Computer Science ⁽¹⁾ -----	4 credits
History (including one year of Government) -----	3 credits
Science -----	3 credits
Classics and Modern Languages ⁽²⁾ -----	6 credits
Fine Arts ⁽³⁾ -----	½ credit
Electives -----	1½ credits

⁽¹⁾ The mathematics/computer science requirement may be fulfilled by the successful completion of four credits, with a minimum of three credits being earned in mathematics courses.

⁽²⁾ The language requirement may be fulfilled by the successful completion of a combined total of six credits earned studying Latin and one modern language (French, German or Spanish). A minimum of two credits must be earned in both Latin and the modern language.

⁽³⁾ The fine arts requirement may be fulfilled by the successful completion of a course in art, music or drama.

COURSE LOAD

Freshmen and sophomores are required to enroll in seven courses; juniors and seniors are required to enroll in six courses. Students with a minimum grade point average of 3.0 may elect to enroll in seven courses during their junior and/or senior year. Many seniors, however, prefer to enroll in six courses so that they may have more time to meet with college representatives, prepare college applications and research schools. Every senior must carry at least six courses each semester.

FRESHMAN YEAR (OPTION A)

Latin I/Honors Latin I*	1 credit	Required
English I/Honors English I*	1 credit	Required
Digital Learning and Information Literacy	½ credit	Required
Visual Language	½ credit	Required
World History	1 credit	Required
Algebra I/Honors Algebra*/Honors Geometry*	1 credit	Required
Physical Science/Biology*	1 credit	Required
Religious Studies	1 credit	Required
Physical Education	20 hours	Required

*Placement based on Scholarship-Entrance Test and/or Qualifying Exams.

FRESHMAN YEAR (OPTION B)

Latin I/Honors Latin I	1 credit	Required
English I/Honors English I*	1 credit	Required
Modern Language I/II	1 credit	Required
World History	1 credit	Required
Algebra I/Honors Algebra*/Honors Geometry	1 credit	Required
Physical Science/Biology*	1 credit	Required
Religious Studies	1 credit	Required
Physical Education	20 hours	Required

*Placement based on Scholarship-Entrance Test and/or Qualifying Exams.

Please Note: Freshmen may take Biology at the Prep during the summer after their freshman year. Students electing to take the summer Biology course are required to have their application reviewed by the Science Department Chair.

SOPHOMORE YEAR

Sophomores must carry 7 majors during their Sophomore Year.

Latin II/Hon. Latin II* or Hon. Latin II/Greek I* -----	1 credit -----	Required
English II/Honors English II*-----	1 credit -----	Required
United States History/ AP US History*-----	1 credit -----	Required
Modern Language I/II/III-----	1 credit -----	Required
Geometry/Hon. Geometry or Hon. Pre-Calculus* ----	1 credit -----	Required
Religious Studies-----	1 credit -----	Required
Biology or Chemistry* -----	1 credit -----	Required
Physical Education -----	20 hours-----	Required

*Students must meet prerequisites (see course descriptions).

Please Note: Sophomores may take Chemistry, Government or Latin III at the Prep during the summer after their sophomore year and select an elective in their junior year as their 6th or 7th course. Students electing to take the summer Chemistry course are required to have their application reviewed by the Science Department Chair. A Fine Art (½ credit) elective may be offered in the summer subject to staffing and enrollment.

JUNIOR YEAR

Juniors must carry at least 6 majors during their junior year.

Latin III/ AP Vergil* -----	1 credit -----	Required
English III/ AP English III* -----	1 credit -----	Required
Modern Language II/III/IV-----	1 credit -----	Required
Religious Studies^ -----	1 credit -----	Required
Algebra II w Trig/Honors Pre-Calculus* -----	1 credit -----	Required
Chemistry-----	1 credit -----	Required
Physical Education -----	20 hours-----	Required

^In Junior and Senior year, Religious Studies courses are rostered as two ½ credit courses.

Honors Greek II* -----	1 credit -----	Elective
Government/ AP Government* -----	1 credit -----	Elective
AP Calculus AB/BC* -----	1 credit -----	Elective
AP Psychology* -----	1 credit -----	Elective
Environmental Science* -----	1 credit -----	Elective
Physics*-----	1 credit -----	Elective
Human Anatomy and Physiology -----	1 credit -----	Elective
AP Biology* -----	1 credit -----	Elective
AP Chemistry*-----	1 credit -----	Elective
Drawing-----	½ credit -----	Elective

Painting -----	1/2 credit -----	Elective
Ceramics -----	1/2 credit -----	Elective
Sculpture -----	1/2 credit -----	Elective
Graphic Design I-Illustration-----	1/2 credit -----	Elective
Graphic Design II-Publication-----	1/2 credit -----	Elective
European Art History I -----	1/2 credit -----	Elective
European Art History II-----	1/2 credit -----	Elective
Visual Language -----	1/2 credit -----	Elective
Styles and Analysis in Music-----	1/2 credit -----	Elective
Music Theory and Aural Skills -----	1 credit -----	Elective
Introduction to Programming* -----	1 credit -----	Elective
AP Computer Science*-----	1 credit -----	Elective
Multimedia Authoring/Web Publishing -----	1 credit -----	Elective
Introduction to Psychology-----	1/2 credit -----	Elective

*Students must meet prerequisites (see course descriptions).

SENIOR YEAR

Seniors must carry at least 6 majors during their each semester of their senior year. Seniors must take Government or AP Government in senior year if they did not have a Government course as a junior. Seniors may choose as many as 3 electives, not exceeding 7 courses.

English IV*or AP English IV* -----	1 credit -----	Required
Government/AP Government* -----	1 credit -----	Required
Mathematics/Computer Science-----	1 credit -----	Required
Modern Language III/IV -----	1 credit -----	Required
Religious Studies-----	1 credit -----	Required
Physical Education -----	20 hours-----	Required

*English IV will be rostered as two semester courses of 1/2 credit each.

Honors Latin IV -----	1 credit -----	Elective
Classical Mythology and Archeaology-----	1 credit -----	Elective
Honors Greek III* -----	1 credit -----	Elective
Latin IV*-----	1 credit -----	Elective
Drawing-----	1/2 credit -----	Elective
Painting -----	1/2 credit -----	Elective
Ceramics -----	1/2 credit -----	Elective
Sculpture -----	1/2 credit -----	Elective
Graphic Design I-Illustration-----	1/2 credit -----	Elective
Graphic Design II-Publication-----	1/2 credit -----	Elective
European Art History I -----	1/2 credit -----	Elective
European Art History II-----	1/2 credit -----	Elective

Visual Language	----- 1/2 credit -----	----- Elective
Styles and Analysis in Music	----- 1/2 credit -----	----- Elective
Music Theory and Aural Skills	----- 1 credit -----	----- Elective
Literature and Film	----- 1/2 credit -----	----- Elective
Personal Writing	----- 1/2 credit -----	----- Elective
Shakespeare	----- 1/2 credit -----	----- Elective
Censorship in Literature	----- 1/2 credit -----	----- Elective
Journalism	----- 1/2 credit -----	----- Elective
20 th Century African American Literature	----- 1/2 credit -----	----- Elective
Public Speaking	----- 1/2 credit -----	----- Elective
Twentieth Century America	----- 1/2 credit -----	----- Elective
The Modern World	----- 1/2 credit -----	----- Elective
Introduction to Economics	----- 1/2 credit -----	----- Elective
AP European History*	----- 1 credit -----	----- Elective
AP United States History*	----- 1 credit -----	----- Elective
Introduction to Programming	----- 1 credit -----	----- Elective
AP Computer Science	----- 1 credit -----	----- Elective
Multimedia Authoring/Web Publishing	----- 1 credit -----	----- Elective
AP Statistics	----- 1 credit -----	----- Elective
Matrices, Probability & Statistics	----- 1 credit -----	----- Elective
AP Calculus AB/BC*	----- 1 credit -----	----- Elective
AP Psychology*	----- 1 credit -----	----- Elective
Introduction to Psychology	----- 1/2 credit -----	----- Elective
Human Anatomy and Physiology	----- 1 credit -----	----- Elective
Environmental Science*	----- 1 credit -----	----- Elective
AP Biology*	----- 1 credit -----	----- Elective
AP Chemistry*	----- 1 credit -----	----- Elective
Physics*	----- 1 credit -----	----- Elective
Chemistry	----- 1 credit -----	----- Elective
AP Physics*	----- 1 credit -----	----- Elective

*Students must meet prerequisites (see course descriptions).

REQUIREMENTS FOR IGNATIAN SERVICE PROGRAM

The rationale for the Ignatian Service Program at St. Joseph's Prep is rooted in the belief of St. Ignatius of Loyola that "love is shown in deeds rather than in words." The Ignatian Service Program is a requirement for all students. In light of The Prep's mission, ideals, and commitment to serve others, this component of the school's curriculum is considered as important as any other academic requirement. It is a necessary requirement for graduation.

Freshmen and Sophomores

For their service component, freshmen participate in a service project during their freshman retreat and sophomores dedicate a day out of their regular academic schedule to work with agencies in the greater Philadelphia community. These service days invite Saint Joseph's Preparatory School freshmen and sophomores to work with people with disabilities at Don Guanella, mentally ill men and woman at Mercy Neighborhood Ministries, and men and women wheelchair-bound at Inglis House-- just to name a few of our wonderful partners. In essence, The Prep provides the activity to introduce the underclassmen to service. It is hoped that they will use this service day as a springboard to more committed service work. Freshmen and sophomores are encouraged throughout the year to participate in service even though there is no specific service hour requirement.

Juniors and Seniors

Juniors are required to complete 20 hours of Christian service. Seniors must complete 40 hours of service. The Ignatian Service Office provides possible work locations throughout the school year. Daily announcements, weekly updates, opportunities. Many juniors and seniors, however, will perform service at locations they choose themselves. Part of the experience of the program for a student is finding a project on his own. The Director of the Ignatian Service Program must approve all service projects. Verification of a student's participation in a Prep-sponsored program will be provided by the director or moderator of the program. When hours have been fulfilled in a program outside of The Prep, a formal letter must be sent or given to the Ignatian Service Director.

A great emphasis is placed on reflection during and after the service work is complete. The Prep believes that "an experience without reflection is *only half* an experience." To that end, students will have the opportunity to reflect on their experiences in both small group settings and in their own written words. To fulfill the written requirement, students will have an opportunity to choose from several different writing options. Students will be able to write a *Formal Essay*, answer specific *Service Reflection Questions*, or keep a *Journal* about their service experiences.

Frequently Asked Questions

If I take an Art class (Visual Language) during my freshman year, may I still register for additional Fine Arts classes?

Yes, you may choose to take a Fine Arts class as an elective course during your junior or senior year.

Must I take a math class during my senior year?

Not necessarily. By the end of your junior year, you will have completed three full years of math. To fulfill the Math/Computer Science requirement of four credits, you will need to complete another math course or another full credit computer science course. You may elect to do both.

Do I need to take three years of Latin?

Not necessarily. If you will earn four credits studying a modern language, then you only need two credits in Latin to satisfy the Classics and Modern Language requirement of six credits. You may, of course, complete a third and/or fourth year of study in Classics as an elective.

Do I need to take three years of a Modern Language?

Not necessarily. If you will earn four credits studying the Classical languages, then you only need two credits in one Modern Language to satisfy the Classics and Modern Language requirement of six credits. You may, of course, complete a third and/or fourth year of study in a Modern Language as an elective.

What if I double up on Modern Languages?

This is not an option. The intent of our Program of Studies is for students to achieve mastery in both Latin and one Modern Language. The study of multiple Modern Languages is not an option.

Do all courses currently offered in the Classics Department count toward the Classics and Modern Language requirement?

Yes, with one exception. The Classical Mythology & Archaeology course is not a language course. Therefore, it may not be included in the required six credits. It will, however, be counted as an elective course.

SELECTION OF COURSES

Students are advised to study all course offerings carefully. If you do not meet the prerequisite for the course, please do not apply for it. You will only be required to make another course selection and this slows down the entire process considerably. Private consultation with a counselor, teacher and parent(s) is suggested to ensure a wise selection of courses. When definite choices have been made, the course selection form must be signed by the student and the parent and submitted to your counselor. Changes are not permitted except in extraordinary circumstances. **The school reserves the right to cancel any course for which there is inadequate enrollment.** The Assistant Principal for Academic Programs and Records will assign courses to students who do not submit course selection forms by the stated deadline.

COURSE SELECTION PROCESS

- Students will receive a Course Selection Guide and a selection form.
- The Course Selection Guide is also available online.
- Students should review all course information carefully before making course selections and fulfill all requirements outlined for each course.
- Students are advised to meet with their counselor to discuss course offerings.
- Specific directions for registering for classes online through PowerSchool will be provided.
- The student and his parent(s) must sign the Course Selection Form before returning it to the counselor in late-March.
- Lists of students who requested Honors and Advanced Placement courses will be sent to the academic departments for approval.
- Each student will receive a roster verification form in mid-May.
- The roster verification will include a listing of courses for which the student has been approved and therefore will be scheduled for the 2011-2012 academic year. The student and parents must verify and return the form only if corrections are necessary. Appeals on course approvals must be directed to the department chairperson.
- During the summer, student schedules will be generated. **The school reserves the right to cancel any course for which there is inadequate enrollment.**
- Student schedules will be mailed to students in August.

ELIGIBILITY FOR AP COURSES

In addition to the individual departmental requirements, a student needs a minimum 3.0 GPA to be eligible to take AP courses, and a minimum 3.5 GPA to be considered for more than two AP courses. The GPA used for AP eligibility is the GPA calculated at the end of the student's first semester of his application year. In terms of the number of AP courses that a student is allowed to take at one time, the norm is two, with the understanding that there may be reasons to justify three. More than three would be permitted only in rare circumstances. If student requests more than two AP courses, he will be asked to prioritize his choices as part of the application process.

SCHEDULES

Add/Drop procedures and guidelines are presented to the students during their class orientation meeting at the beginning of each school year. The period for any necessary schedule adjustment is in effect until the **end of the first teaching cycle.**

MID-QUARTER EVALUATION

Mid-Quarter Evaluations are distributed four (4) times a year.

REPORT CARDS

Report cards are distributed four (4) times a year.

TRANSCRIPTS

Transcripts are available upon request from the Main Office.

CLASS RANK

Saint Joseph's Prep does not rank students.

HONORS

Prep Scholars are based on the grade point average at the end of First Semester and at the end of the year.

First Honors: Grade Point Average **3.50 or higher**

Second Honors: Grade Point Average **3.30 - 3.49**

CLASSICS DEPARTMENT

GRADE 9

LATIN I - CLA 101 [Required] 1 credit

This course provides a detailed study of elementary Latin grammar and vocabulary. Students develop skills of memory, analysis and association. Attention is given to the translation of stories in "made up" Latin. Connections with English grammar and vocabulary are frequently indicated. [Students take the National Latin Examination in March.] Prerequisite: None

HONORS LATIN I - CLA 102 1 credit

This course attempts to group those students with identifiably high verbal skills. While the matter covered is the same as that in Latin I, the depth, the pace and the amount of translation are beyond that of the regular Latin I course. [Students take the National Latin Examination in March.]

Prerequisite: Placement based on Scholarship-Entrance Examination and qualifying exams in verbal skills

GRADE 10

LATIN II - CLA 201 [Required] 1 credit

This course first reviews matter learned in first year; then, new grammar is presented sequentially. Students use a vocabulary prepared by the Department and begin to read original Latin selections taken from Livy and/or Caesar. Cultural and historical aspects of ancient Rome are also included. [Students take the National Latin Examination in March.]

Prerequisite: Successful completion of Latin I

HONORS LATIN II - CLA 202 1 credit

This course is offered to those sophomores who have developed a serious interest in the language, history and culture of the ancient Romans. Students must have demonstrated superior ability in translating complex Latin as well as in memorizing and identifying the grammatical elements utilized in Latin. Students complete the formal study of Latin grammar and begin to read selections from Livy and/or Caesar, and possibly Ovid or Plautus. [Students take the National Latin Examination in March.]

Prerequisite: Recommendation of Latin I teacher and approval of Department Chairperson

HONORS LATIN II/GREEK I - CLA 203

1 credit

This is an intensive course, which teaches Attic Greek along with the entire syllabus of Latin II and is open to qualified sophomores who have a sincere interest in ancient languages and history. In this integrated approach the students learn the Greek and Latin languages and are introduced to Greek literature and history. Students will be expected to continue with their study of Greek in junior year in the Honors Greek II course.

[Students take both the National Latin and National Greek Examinations in March.]

Prerequisite: Recommendation of Latin I teacher and approval of Department Chairperson

GRADE II

[A junior must select either Latin III or AP Vergil unless he takes Latin III in The Prep's summer school. A third year of Latin is not required if the student will earn four credits in a modern language.]

LATIN III - CLA 301

1 credit

The first semester of the course is devoted to the reading, translation and analysis of Latin prose. Usually students read one of Cicero's speeches, such as the *Pro Caelio*, one of the *Catilinarian Orations* or selections from the letters of Cicero and Caesar. The second semester of the course is devoted to the reading, translation and analysis of Latin poetry. Students may read selections from such authors as Ovid, Vergil, *Catulus* or perhaps others, depending upon the interests of the class and the teacher. Relevant historical and cultural topics will be addressed, as well as features of literary style. [All Latin III students take the National Latin Examination in March.]

Prerequisite: Successful completion of Latin II

AP VERGIL - CLA 302

1 credit

This course follows the syllabus set by the Advanced Placement Program of the College Board for a close reading of the *Aeneid*, the epic poem by Vergil. [Students are required to take the AP Examination in May and the National Latin Examination in March.]

Prerequisite: Recommendation of Latin II teacher and approval of Department Chairperson

HONORS GREEK II - CLA 303

[Elective]

1 credit

The student completes the study of Attic Greek begun in the Honors Latin II/Greek I course. Selections from Attic prose and poetry of the fifth century B.C. are read in the original. Cultural, historical and archaeological topics are often discussed. The Greek selections are set and studied in their contexts. [Students take the National Greek Examination in March].

Prerequisite: Recommendation of Greek I teacher and approval of Department Chairperson

GRADE 12
[Electives]

CLASSICAL MYTHOLOGY & ARCHAEOLOGY- CLA 402 1 credit

This course will consist of two related parts. In the first term, and possibly in the beginning of the second term, students will study selected topics and principles of classical archaeology, which they will then apply to a detailed study of the physical remains of Rome and her environs. Slide lectures will elucidate the major monuments of the city. Students will consider, among other things, the topography of Rome itself, the Roman conception of urban planning, and Roman socio-political and religious history. The majority of the second term will involve an examination of Greco-Roman Mythology. Students will consider the various gods of the Roman pantheon, the literary tradition that detailed their exploits and their function in the religion and daily lives of the Romans. Frequent correlations to other world religions, including Christianity, will be made and explored.

Prerequisite: Recommendation of junior year Latin teacher and approval of Department Chairperson.

HONORS GREEK III - CLA 403 1 credit

This course presents an in-depth reading of authors selected by the teacher in conjunction with the students. Connections between text, archaeology, history and mythology are made. Background readings in secondary sources enhance the classroom experience. [Students take the Medusa Mythology Examination.]

Prerequisite: Recommendation of Greek II teacher and approval of Department Chairperson

LATIN IV: READINGS IN LATIN LITERATURE - CLA 404 1 credit

This course is intended for those seniors who wish to continue their study of Latin, but not at the Honors level. Students will read selections from Latin works and authors of the late Republic and the Empire; these will be determined by teacher choice and student interest. There will also be relevant lectures on cultural and historical background. [Students take the National Latin Examination in March.]

Prerequisite: Recommendation of junior year Latin teacher and approval of Department Chairperson.

HONORS LATIN IV- CLA 405 1 credit

Students read extensively from the poetry of Catulus and Horace, and complete the syllabus formerly prescribed by the Advanced Placement Program of the College Board. Correlations between the art, literature and cultures of Greece and Rome are explored. Articles on the poems are frequently read and discussed in class. [Students take the National Latin Examination in March.]

Prerequisite: Recommendation of junior year Latin teacher and approval of Department Chairperson

COMPUTER SCIENCE DEPARTMENT

GRADE 9

DIGITAL LEARNING AND INFORMATION LITERACY - CS 102 ½ credit

Digital Learning introduces students to tools that allow them to organize information, communicate ideas and collaborate with other students even when they are not physically in the same location. Students will learn how to create an online presence safely and responsibly. They will research and discuss some of the many ethical issues that surround the use of technology (i.e. music downloads, cheating) and share their opinions through blog posts and written reactions. Information Literacy skills help students find, evaluate and ethically use different types of information. Students will learn ways to avoid plagiarism and use proper citation formatting.

Prerequisite: None

GRADES 11, 12

INTRODUCTION TO PROGRAMMING - CS 301 1 credit

In Introduction to Programming, students will learn general principles of program design by constructing complete programs in Java. Upon completion, students will have a firm grasp of the syntax of the Java language, as well as an understanding of general programming algorithms and data structures. More complex programs, including web-based Java applets and GUIs (graphical user interfaces) will be covered.

Prerequisite: Grade of B or better in Algebra I; Preferred completion of Math 301

AP COMPUTER SCIENCE- CS 401 1 credit

AP Computer Science is a continuation of the topics covered in Introduction to Programming. Students will use the Java programming language to explore fundamental concepts of computer science, such as object-oriented design, encapsulation, inheritance, data structures, and advanced sorting and searching algorithms. Students are required to take the College Board AP Computer Science exam in May.

Prerequisite: Successful completion of CS 301. **Students interested in taking AP Computer Science without CS 301 must successfully complete a placement exam or enroll in and complete a college-level introductory Computer Science course.**

WEBSITE DESIGN AND PUBLISHING - CS 402 1 credit

This course is designed for students with an interest in publishing high-quality work on the Web. Topics will include website design and publishing, digital-photo editing, web animation, video streaming, and more. Some of the professional-level software used in the course includes: Adobe Photoshop, Adobe Dreamweaver, Adobe Flash, Apple iPhoto, Apple iMovie, and Apple Garage Band.

Prerequisite: None

ENGLISH DEPARTMENT

English 101 and 102 are genre courses (introduction to short stories, poems, plays, essays), which introduce the student to the formal study of literature and the process of writing. English 201 and 202 continue this study of literature and writing with a literary content that focuses on American literature. The literary content of English 301 and 302 consists of British and World literature. Senior English offerings include one semester elective courses (non-AP students must take a minimum of two (2) elective offerings) or English 402, a full-year Advanced Placement course. Seniors or juniors who have room in their schedules may choose additional English elective courses.

For graduation, students are required to obtain four (4) credits in English. Senior elective courses carry a credit of .5.

GRADE 9

ENGLISH I - ENG 101

1 credit

The aim of the course is to foster habits of reading with attention and with sensitivity to the implications of what is read. The freshman student is introduced to five basic forms of literature: the short story, the poem, the play, the non-fiction essay and the novel. The freshman student is expected to recognize and use the major literary devices found in these five forms. Throughout the entire year, there is systematic emphasis upon composition. This exercise with the forms of language solidifies a student's command of English grammar and refines the student's abilities of self-expression in writing. Particular emphasis is placed upon a process approach to writing through practice in writing narrative and descriptive paragraphs and essays. The student also begins to write critically about the literature he reads. In addition to intensive practice in composition, significant time is spent on the student's verbal development through vocabulary and speech. Note taking and study skills are also a part of this introduction to literature and writing.

Prerequisite: None

HONORS ENGLISH I - ENG 102

1 credit

This course is available for the freshman who has demonstrated a proficiency in language skills based on his Entrance Exam and diagnostic testing. The student is introduced to five basic forms of literature: the short story, the poem, the play, the non-fiction essay and the novel. A student in the Honors program will be expected to handle significant reading assignments and to be involved in a more sophisticated analysis of literature. Active class participation is an important aspect of a student's grade. Numerous and varied writing assignments help the student to refine his writing skills. Significant time is spent on vocabulary study and speech to aid the student's verbal development. Note taking and study skills are also a part of this introduction to literature and writing.

Prerequisite: Placement based on Scholarship-Entrance Examination and diagnostic testing. A student applying for this course should be comfortable with speaking in a group setting.

GRADE 10

ENGLISH II - ENG 201

1 credit

Students in English II will study the rich cultural literary heritage of America. Students will be exposed to traditional works from the Colonial era to the present as well as Native American and African American literature. Students will examine how these authors treat universal human concerns as well as their portrayal of life in America. In conjunction with the reading, English II emphasizes a process approach to writing. Students will write in a variety of modes, including narration, description, persuasion, and the short critical essay. English II students will continue the study of vocabulary begun in freshman year. Students will also have the opportunity to develop their oral communication skills through informal and formal speech activities. Time is spent on note-taking and study skills as well.

Prerequisite: None

HONORS ENGLISH II - ENG 202

1 credit

American Literature and Writing II: An honors course in English is offered to those sophomores who have developed a serious interest in the study of literature and who have demonstrated in freshman year an ability to write well. In addition, the student must assume the responsibility of a greater volume of reading and more extensive writing and speaking assignments than in English 201. Involvements in class activity and class participation are integral parts of this course and compose a significant percentage of the student's grade.

Particular emphasis is placed upon a process approach to writing. In addition to narration, several forms are used to help the student develop his own voice as a writer: description, persuasion, journaling, the writing of reaction/response papers, and short story writing. The Honors student will begin the study and practice of critical writing. The student will expand his vocabulary through further study and through an examination of American literature. While not an Advanced Placement course, English 202 serves as an excellent introduction to the AP courses in junior and senior years and may be considered a pre-AP course.

Prerequisite: Students must have an A average in English for freshman year and the recommendation of the student's English 101/102 teacher. This recommendation will evaluate five factors of the student's current year's English performance: Grade in English (93 or higher), advanced writing ability, class participation skills, reading comprehension and ability to meet deadlines. All candidates for Honors English II must take a multiple choice reading comprehension and analysis test, which will be administered by the English Department. This test, as well as the student's English grade, overall G.P.A., teacher recommendation and P.S.A.T. verbal score are all considered in the application process.

GRADE II

Juniors are required to take English 301 or 302. Students may also choose to take an elective course; however, first choice in the elective courses is given to seniors.

ENGLISH III - ENG 301

1 credit

English 301 is a survey of British and world literature. Students will discover how the topics that interested writers and the style in which they wrote developed over the course of centuries. Discussion is integral to the course.

Particular emphasis is placed upon a process approach to writing and the student will be given regular opportunity to refine his writing skills in the various modes practiced in his career at The Prep: descriptive, narrative, persuasive, journaling, reaction/ response essay and creative writing. Particular attention will be given to the writing of the SAT essay and the essay for college application and to the on-going development of vocabulary. The senior student will also have opportunity to hone his public speaking skills. Time-management, note taking and study skills will also be addressed in this course.

Prerequisite: None

AP ENGLISH III: LANGUAGE AND COMPOSITION - ENG 302

1 credit

An Advanced Placement program is available to qualified students in both junior and senior year. This junior course follows the guidelines for the AP Language and Composition program. The AP program in English is designed for students with confidence in their writing ability and a significant interest in literature, critical thinking and writing. AP English classes utilize the format of a college-level seminar. Consequently, it is imperative that students in the program anticipate comprehensive and deep coverage of British and World literature. In addition, students must be willing to participate in class activities and discussions. AP students must assume the additional responsibility of a greater volume of out-of-class reading in preparation for class discussion.

Particular emphasis is placed upon a process approach to writing. Junior AP students will also be expected to write several critical analysis papers on works included in the study of British and World literature. Time will also be spent on the writing of the S.A.T. essay and the essay for college applications, vocabulary and informal and formal speech activities. **Students are required to take the College Board AP English Language and Composition exam in May.** It should also be noted that junior AP English students need not be retained in the program during senior year if they do not sustain a high degree of motivation and demonstrate above-average aptitude for the material.

Prerequisite: Students must have an A average in English for sophomore year and the recommendation of the student's English 201/202 teacher. This recommendation will evaluate five factors of the student's current year's English performance: Grade in English (93 or higher), writing ability, class participation skills, reading comprehension (the ability to analyze and synthesize) and ability to meet deadlines.

All candidates for AP English III must take a reading comprehension and analysis test which will be administered by the English Department. This test, as well as the student's English grade, overall G.P.A., P.S.A.T. verbal score, and teacher recommendation are all considered in the application process.

GRADE 12

SENIOR ENGLISH

Non-AP seniors must choose two (2) of the following courses to complete their senior English credit. Non-AP seniors are given priority for admission to semester elective offerings.

The English Department will NOT offer all of the following elective courses each year. Instead, the Department will attempt to offer those courses, which are of the greatest interest to the majority of seniors. **Staffing and scheduling constraints may affect course offerings and availability.**

SENIOR ELECTIVES

LITERATURE AND FILM – ENG 403

½ credit

This course is designed to explore the relationship between literature and film and recognizes film as a distinct and valid literary art form. It is designed to explore the methods, techniques and processes of great American filmmakers. A variety of cinematic genres will be studied. Students will read several novels, and view the film adaptation of each. Students will gain knowledge and insight into how characters are developed within literature and film. By grasping a more thorough understanding of the creative processes that authors and directors undergo, students will develop thoughtful and critical approaches to film and media. Students will learn to identify and discuss directorial aspects of filmmaking, such as cinematography, score, costume, editing, sound effects, set design, and prop consistency. Students will also be encouraged to express their reactions to character, acting and dialogue, and expected to discuss their critical analysis of each. Students will examine film's effect on their imaginations, and be encouraged to carefully consider the impact of media on the mind.

Through written assignments and classroom discussions, students will express their views on media and its powerful impact on social psychology and culture.

SHAKESPEARE – ENG 405

½ credit

This course studies the plays of Shakespeare as literary, dramatic, and cultural texts. It introduces the student to the writing of clear, well-argued critical prose. The aim is to rediscover Shakespeare in his own time, while also knowing him as our contemporary, a maker of our culture and a continuing source of pleasure. Students will carefully examine several of Shakespeare's most famous plays. Examples include: *Henry IV, Part I*; *Twelfth Night*; *Hamlet*; *The Winter's Tale* and *The Tempest*.) Students will write one literary essay per play on mutually agreed upon topics. Other possible activities include integration of music (e.g., Verdi's *Falstaff*;

Mendelssohn's *A Midsummer Night's Dream*), study of film adaptations, or a field trip to view live performance.

PERSONAL WRITING:

EXPRESSIONS OF THE HUMAN EXPERIENCE – ENG 406

½ credit

This course will examine various forms of personal writing produced in the 20th century. Certainly, personal writing is one of the most significant means for capturing and expressing the human experience. Memoir, poetry, autobiography, music, journal, film and the personal essay are some of the many ways we have found to express who we are. Meanwhile, much of a student's scholastic writing has focused on the critical and analytical modes of writing. This course, then, will provide an opportunity to examine models of personal writing by famous and not-so-famous writers. Using these published writers as models, the student will create his own body of work using the various modes of personal writing. In this course, students will also sharpen their personal writing skills. Students will write intensively (in many of the genres mentioned above), use peer feedback and employ a variety of editing and revision strategies.

CENSORSHIP IN LITERATURE – ENG 408

½ credit

This course will engage students in careful reading and critical analysis of works of literature that have been censored or banned around the world. This censoring takes place in schools, libraries and bookstores, and it takes place for a variety of reasons, ranging from religious and political to sexual and social. Through the semester, this course will examine some of the more frequently censored or banned books and try to see the issue from both sides of the fence. The aim of the course is to look at books that have been censored and find the merit in the novels. This course will cover five novels in full: *Harry Potter and the Sorcerer's Stone* by J.K. Rowling, *25th Hour* by David Benioff, *Fight Club* by Chuck Palahniuk, *Trainspotting* by Irvine Welsh, and *Requiem for a Dream* by Hubert Selby, Jr.

JOURNALISM – ENG 414

½ credit

The purpose of this course is to instruct students on the intricacies of journalistic writing and the ethics and responsibilities of being a professional journalist. This course is designed for the mature student who has a serious and pronounced interest in the field of journalism. The course will explore the social role of journalism and the journalist from legal, historical, ethical, and economic perspectives. The course is writing intensive. Understanding the importance of deadlines is crucial, and students will be held to a high professional standard. Furthermore, professional journalists will be invited to discuss the different roles that are involved in putting together any type of publication. This course also presents an opportunity to explore the different aspects of journalism, including: photography, editing, layout, and the business management of a publication.

Students will be expected to write in various journalistic formats and to perform all of the various aspects of newspaper production. Collaboration with others and working as a newspaper staff will be an intricate part of this course.

Prerequisite: The course is available through a selection process. Applicants must present an assignment as required for entry in early February. Only the students selected may apply. Class size is limited.

LITERATURE, LANGUAGE AND CULTURE OF NORTHERN IRELAND -
ENG 415 1/2 credit

This course examines the literature, language and culture of Ireland, specially the North of Ireland (otherwise known as Northern Ireland). The aim of this course is to enlighten students on the issues revolving around the North of Ireland and to consider how these issues are presented in the works of its writers. The course will expand the student's awareness and understanding of the North beyond what is seen on the news and read in the papers.

In this course, one major novel – *Trinity*, by Leon Uris--will be used as the main literature text. A poetry collection will also be examined, and a recent study of the North will be referenced throughout the course to accent the class' understanding of the complexities surrounding this region. Other sources, too, will be used to supplement the learning as certain issues arise in the text. These sources range from documentary and popular films to music, current events in periodicals, journals of hunger strikers, guest speakers, and even an introductory Irish Gaelic course.

The main texts for the course are, again, *Trinity* by Leon Uris, *Opened Ground: Selected Poems 1966-1996* by Seamus Heaney, and *Northern Ireland* by Jonathan Tonge. The course will also rely on films to provide a vision of events in the North. Some of the films viewed in the course are *In the Name of the Father*, *Sunday Bloody Sunday*, *The Boxer*, *Michael Collins*, *The Wind that Shakes the Barley*, *Some Mother's Son*, and *Hunger*.

POETRY AND MUSIC IN POSTMODERN CULTURE - ENG 416 1/2 credit

This course will examine the connections among poetry, music, and other aspects of culture in the modern world. Students will examine poetic structures as they have evolved from traditional poetry to rap, performance art and spoken word. From the Beat poets of the fifties to the Performance poets of the 21st century, students will read and discuss the various ways that poetry, music and lyric express the culture in which they are written.

Students will be evaluated in a variety of ways, including reading poetry aloud, writing critically and personally about poetry and music, and writing their own poetry. Evidence of student work may include essays, journals, portfolios, performance, presentations, videos, and e-folios.

PUBLIC SPEAKING- ENG 417

½ credit

The Public Speaking senior elective is designed for the serious student who desires to expand his knowledge and appreciation of speaking the English language, particularly in front of groups. A primary goal of the course is to help students develop confidence, not only in speaking in front of groups, but also in gathering and organizing the material they are presenting. Therefore, the course will also be writing intensive. Jesuit education suggests students need to develop “mastery of logical skills and critical thinking.” Towards the course’s primary goal of effective public speaking, students will also learn to be smart listeners and active scrutinizers of information. Important classroom discussions will cover the basic elements of logic and rhetorical analysis, which will be applied to statistics, research results, and mass media. While the class will cover the importance of presenting well-organized arguments, the class is not designed for the student with a pronounced interest in forensics and debate. Developing confidence and clarity of thought remains at the center of the course’s goal. The course is not geared towards, or a component of, the school’s forensics program.

20th CENTURY AFRICAN AMERICAN LITERATURE - ENG 418

½ credit

This course examines seminal works of 20th Century African-American Literature from a thematic perspective, analyzing common threads that run through various genres and time periods, including the search for self-identity, the desire for self-definition and determination, the call to social action, the identification of social ills (past and present), and the celebration of race. Students will examine the cultural and historical trends that inform the thematic issues. The course will introduce students to major works and writers of the modern African American canon. Time will be devoted to close reading of texts, independent study of parallel works, and literary discussion of trends in the genre. Students will be expected to write about the texts insightfully and speak about them adeptly in both class discussion and formal presentation.

AP ENGLISH IV: LITERATURE AND COMPOSITION - ENG 402

1 credit

Advanced Placement English Literature and Composition, a college-level course, will provide opportunities for students to develop their ability to read critically, think clearly, and write concisely. This course follows the guidelines for the A.P. Literature and Composition program and is designed for students with confidence in their writing ability and a significant interest in critical thinking and writing. A.P. students will study various schools of literary criticism and do readings in literary criticism related to the works they study.

During the course, the students will read books that they have not had a chance to explore before, exchange ideas with their classmates about the ideas they encounter in these books, and challenge the beliefs and ideas which they currently hold. Students will have the opportunity to read some of the finest poetry, plays, novels, short stories, and essays ever written. They will refine their ability to discover meaning in literature by being attentive to language, image, character, action, argument, and the various techniques and strategies authors use to evoke emotional responses from readers. A.P. Lit. & Comp. students will be expected to justify their interpretations by reference to details and patterns found in the text, to compare their interpretations with those

proposed by others, and to be prepared to modify their interpretations as they learn and think more deeply.

The mode of instruction is primarily seminar with deep experience in the Socratic Seminar. A.P. Lit & Comp students will also participate in writing workshops, peer review, and revision of their work. Particular emphasis is placed on the process approach to writing. In addition to proficiency in the modes practiced in their three previous years of study, students will write critical analyses, craft the college essay and work in some modes of creative writing. Finally, students will refine their skills in answering multiple choice questions about literature and writing the AP timed-write essay needed for the required A.P. Lit exam in May.

“By the end of the AP English Literature and Composition course, students should be able to approach a poem, a prose work, and a play and – proceeding beyond visceral and emotional reactions – respond to it analytically and critically, both orally and in writing. These well-developed responses will, at their best, use literary terms and key concepts to illuminate insights rather than simply to show students’ familiarity with them.”

– from the 2009-2010 AP English Lit & Comp Course Description (The College Board)

FINE ARTS DEPARTMENT

The graduation requirement for Fine Arts is a minimum of a ½ credit (a one-semester course). All courses in the department can be taken for elective credit. **Courses are subject to a minimum enrollment and staffing to run. Not all courses will be offered each year.**

VISUAL LANGUAGE- FAR 101

½ credit

This is an introductory fine arts course that focuses on understanding art as a visual language. The objective is for the student to develop visual literacy and the ability to discuss and critically analyze works of art. The course centers on the art elements, the artists' vocabulary. Studio projects complement reading, writing and discussion. This course is recommended for all levels of experience. This course provides a basic understanding of how art is made and provides a foundation for further study in visual art.

Prerequisite: None

STUDIO COURSES

DRAWING - FAR 304

½ credit

This course focuses on composition and design skills. Students will develop technical skills in drawing and the use of a variety of media such as pencil, charcoal, pastel, pen and ink and printmaking. This is a studio-based (project oriented) course.

PAINTING - FAR 305

½ credit

This course focuses on painting techniques and media. Color theory will be studied and drawing skills will be emphasized. Students will develop technical skills in watercolor, colored pencil, acrylic and oil painting. This is a studio-based (project oriented) course.

The Drawing and Painting courses are recommended for students interested in developing a more critical and analytical way of seeing. These courses provide an excellent foundation for those interested in careers in design, architecture, fine arts, and science. Drawing and Painting can be paired to create a full year course.

Prerequisite: FAR 101 is strongly recommended.

CERAMICS - FAR 406

½ credit

This course focuses on various methods of working with clay such as pinch pots, coil building, slab building, mosaics, extruding and wheel throwing. Sculptural and surface design skills are emphasized.

Prerequisite: FAR 101 is strongly recommended

SCULPTURE- FAR 407

½ credit

This course will explore the use of the elements and principles of design to create 3 dimensional works. Sculptural processes will be explored such as plaster carving, casting, papier mache and using found objects.

The Ceramics and Sculpture courses are recommended for students that enjoy working with their hands. These courses provide an excellent foundation for those interested in careers in engineering, architecture, design and fine arts. Ceramics and Sculpture can be paired to create a full year course.

Prerequisite: Completion of FAR 101 is strongly recommended.

GRAPHIC DESIGN I - Illustration - FAR 408 ½ credit

This course focuses on developing design skills with the emphasis on graphic images used in commercial applications such as advertisements, logos, posters and billboards. The drawing program Adobe Illustrator will be the main tool utilized, supported by preliminary sketches and other computer programs as needed.

GRAPHIC DESIGN II - Publication- FAR 409 ½ credit

This course focuses on the page layout program Adobe Indesign. The development of design skills will be emphasized. Other computer programs such as Adobe Photoshop and Illustrator will be used as needed.

Graphic Design I and II are recommended for students going into careers in design, fine arts or advertising as well as those who would like to develop design skills to enrich all of their work, computer-based or not.

ART HISTORY COURSES

Please note: The European and American Art History courses will run in alternate years. European Art History I and II may be offered in the 2011/2012 school year subject to enrollment and staffing.

EUROPEAN ART HISTORY I - FAR 410 ½ credit

This is an art history course that focuses on Western Art from the early Christian era to the Romantic period (late 1800's). American Art will be emphasized when relevant. This is primarily a lecture-based course.

Prerequisite: None

EUROPEAN ART HISTORY II - FAR 411 ½ credit

This is an art history course that focuses on Western Art from the beginning of Modern Art to the current time. American Art will be emphasized when relevant. This is primarily a lecture-based course.

The European Art History courses are recommended for students who prefer learning about art rather than making it. These courses extend knowledge of the history of western civilization and would interest students who enjoy studying history, society and culture. Students may elect to take one or both courses. While helpful, it is not necessary to take I before taking II.

Prerequisite: None

OR

AMERICAN ART HISTORY I - FAR 412

½ credit

This course focuses on the history of art in America from colonial times to the end of the 19th century. The Philadelphia region will be emphasized as much as possible. The course is mainly lecture-based with a few studio projects interspersed throughout the semester.

AMERICAN ART HISTORY II - FAR 413

½ credit

This course focuses on the history of art in America from the beginning of the 20th century until the current time. The emphasis will be on the Northeast region primarily. The course is mainly lecture-based with a few studio projects interspersed throughout the semester.

The American Art History courses are recommended for students who are interested in history, society and culture. The courses build on material studied in American history and literature courses. Students may elect to take one or both courses. While helpful, it is not necessary to take I before taking II.

Prerequisite: None

MUSIC THEORY AND AURAL SKILLS - FAR 416

1 credit

This course is intended to provide the student with a solid foundation in the two most important areas of a collegiate level music curriculum - music theory and aural skills. The student will master both basic fundamentals and advanced concepts of music theory, notation, melodic/harmonic analysis, rhythmic accuracy, and ear training. Upon successful completion of this course, the student will be able to perform the following skills in order to excel in first year collegiate music theory and aural skills courses: Read and notate music; Identify intervals, chords, scales - both on paper and aurally; Identify various meters, both simple and compound - both on paper and aurally; Take rhythmic, melodic, and harmonic dictation; Perform rhythmic, melodic, and harmonic recitation; Demonstrate knowledge of voicing parts and functions; Perform harmonic and melodic analysis using Roman and Arabic numerals; Compose and arrange simple melodic phrases; Create an accurate transcription of various musical excerpts.

Prerequisite: Music Theory and Ear Training is intended only for students who already have a working knowledge of basic music notation and theory. Students must pass an entrance test if they wish to enroll in this course.

STYLES AND ANALYSIS IN MUSIS - FAR 417

½ credit

This course is designed to give the students a general knowledge of the language and materials of music. Students will use this knowledge to compare and contrast many different genres, styles, and techniques, as well as develop and articulate informed opinions on how music affects them personally. We will study basic music theory and notation, different families of instruments, the characteristics of musical time periods, influential composers and musicians, and genres and styles from around the world. At

the end of the semester, students will write a final paper discussing how the concepts studied throughout the semester apply to one of their favorite current artists and reflecting on the ways in which the music of this artist affects them. This is primarily a listening and discussion course, with a strong emphasis on personal experience and reflection on our relationship with music.

SUMMER COURSE OFFERING

ART AND CULTURE OF NORTHERN ITALY

½ credit

This is a three-week summer course that earns the student a ½ credit. The first week and a half is spent in the classroom at the Prep studying basic Italian language skills and Renaissance art and artists of Northern Italy. The class continues in Italy, leaving after class on the Wednesday of the second week, traveling to Rome, Florence, Padua and Venice for the final week and a half. The approximate cost is \$3000.

HISTORY DEPARTMENT

GRADE 9

WORLD HISTORY - HIS 101

1 credit

The World History course is designed to challenge and enlighten students' understanding of our world's vast array of cultures, civilizations, and societal structures that have shaped the past until the present day. This course is required of all freshmen in order to provide a broad appreciation of the historical trends and events of the world's major civilizations, with an emphasis on the details of smaller "case-studies" of lesser known regions, societies, and human practices that inform the student of the influential nature of man on his environment. The objective of the course is to involve students not only with these events, but also with all their effectual relations. There is an important emphasis placed on student readings, participation in classroom discussion, and the preparation of carefully selected written projects. A formal term paper is assigned to each student to acquaint him with the nature of historical research and to develop writing skills. Also, the summer reading project will be evaluated in early September.

Prerequisite: None

GRADE 10

UNITED STATES HISTORY - HIS 201

1 credit

The United States History course is a survey emphasizing the important social and political factors that have influenced the history of the United States from colonial times to the present. The objective of the course is to have a better understanding of particular decisions that people have made in the past. Emphasis is placed on extensive readings from the textbook and primary source material as the focus for classroom participation and involvement. The goal of the course is to develop an ability to read historical materials critically, to weigh evidence and interpretations, and to arrive at conclusions based on this evidence and study rather than bias. A formal research paper will be assigned to each student during the year. Also, the summer reading project will be evaluated in early September.

Prerequisite: None

AP UNITED STATES HISTORY - HIS 202

1 credit

The Advanced Placement course in United States History is offered to selected students during the sophomore year. This course is designed to be a more challenging analysis of the themes and issues found in United States history by making demands on the student equivalent to those of an introductory college course. The students are given a thorough grounding in facts, but go beyond these facts to an examination of their significance and their cause and effect relationships. Emphasis is placed on discussions, selective reading, and working with primary source materials. Students learn to read historical material analytically and critically, to weigh historical evidence and interpretations, and to arrive at conclusions on the basis of facts rather than prejudice. A formal research paper will be assigned to each student during the year. Also, the summer reading project will be

evaluated in early September. Students are required to take the College Board AP Exam in May.

Prerequisite: Class size is limited and admission is based on a minimum overall GPA of 3.6, a consistent grade of an “A” in World History, and a departmental recommendation. In addition, a qualifying test may be administered to secure placement.

GRADES 11 AND 12

[Government or AP Government is required.]

US GOVERNMENT AND POLITICS - HIS 301

1 credit

The US Government course is designed to give students a critical perspective on government and politics in the United States. The course will commence with an examination of the historical foundations that have helped to shape American government. Also, students will study how and why government functions in American society today. A college level textbook will be used in this course. Additional readings and documentaries will be scheduled for additional insights into current topics. The summer reading project will be evaluated in early September. Also, students will be expected to complete a research paper designed to examine and explain some aspect of this course.

Prerequisite: None

AP US GOVERNMENT AND POLITICS - HIS 302

1 credit

The Advanced Placement course in United States Government is designed to give students a critical perspective on government and politics in the United States. This course is designed to be a more challenging analysis of the themes and issues found in United States Government by making demands on the student equivalent to those of an introductory college course. It involves both the study of general concepts used to interpret American politics and the analysis of specific case studies. It also requires a familiarity with the various institutions, groups, beliefs, and ideas that make up the American political reality. The course will focus on the constitutional underpinnings of the United States government, political beliefs and behavior, political parties and interest groups, the institutions and policy decisions. In order that students are fully prepared to meet the rigors of college level studies, students will be expected to complete a research paper designed to examine and explain some specific aspects of the course. To test students’ analytical skills, the course will require the study of primary source materials, as well as the discussion of assigned articles, which are germane to the course. Students are required to take the College Board AP Exam in May.

Prerequisite: Class size is limited and admission is based on a minimum overall GPA of 3.5, an average grade of a “B+” in prior History department courses, and a departmental recommendation. In addition, a qualifying test may be administered to secure placement.

GRADE 12
[Elective courses]

AP EUROPEAN HISTORY - HIS 403

1 credit

The Advanced Placement course in European history is offered to select students during their junior or senior years. The requirements of this course resemble the demands on the student equivalent to those of an introductory college course. The goals of the course are threefold: a) to familiarize the students with a sense of the past and to explain present day Europe in light of its history; b) to acquaint students with the methods of inquiry used by historians; and; c) to develop more fully the faculties of critical thinking. A formal research project will be assigned to each student during the year. Also, the summer reading project will be evaluated in early September. Students are required to take the College Board AP Exam in May.

Prerequisite: Class size is limited and admission is based on a minimum overall GPA of 3.2, an average grade of a "B" in prior History department courses, and a departmental recommendation. In addition, a qualifying test may be administered to secure placement.

20th CENTURY AMERICA - HIS 406

½ credit

The 20th Century America course is designed to study the history of the United States since the 1960s, with emphasis on interpretation and analysis of the material by contemporary historians. Students will acquire a basic understanding of the factual material before embarking on discussions or offering opinions. The topics, which includes both the studies of history and current events, are an attempt to gain perspective on the present political, economic, and social developments in recent United States history. Also, a formal research paper will be assigned to each student. This course will run during the first semester only.

Prerequisite: None

THE MODERN WORLD - HIS 407

½ credit

The Modern World course examines the current events of the United States and around the world using the writings of contemporary historians and journalists for analysis and interpretation of selected topics. Concentration will be placed on American foreign policy with political, economic, and social developments throughout the world as its focus. Also, formal writing will be assigned to each student to investigate current issues. This course will be offered in the second semester only.

Prerequisite: None

MATHEMATICS DEPARTMENT

In the Spring prior to the start of one's freshman year, students are given the opportunity to take a Qualifying Exam to determine proper course placement. Based on the results of this Exam, students are deemed suitable for Regular, Honors or Advanced Placement. A student who does not take the Spring Qualifying Exam will be given Regular Placement. An incoming freshman may be placed in Algebra, Honors Algebra or Honors Geometry. The expected progression of each of these placements is below.

FOUR-YEAR PROGRAM OF STUDIES

	REGULAR			
<u>FRESHMAN</u>	<u>SOPHOMORE</u>	<u>JUNIOR</u>	<u>SENIOR</u>	
Algebra I	Geometry	Algebra II/Trig	Calculus; or Matrices, Probability & Statistics	

HONORS PLACEMENT				
<u>FRESHMAN</u>	<u>SOPHOMORE</u>	<u>JUNIOR</u>	<u>SENIOR</u>	
Honors Algebra	Honors Geometry	Honors Pre-Calculus	Calculus; or AP Calculus AB; and/or AP Statistics	

ADVANCED PLACEMENT				
<u>FRESHMAN</u>	<u>SOPHOMORE</u>	<u>JUNIOR</u>	<u>SENIOR</u>	
Honors Geometry	Honors Pre-Calculus	AP Calculus AB	AP Calculus BC; and/or AP Statistics	

While these tables show the expected progressions of each placement, students must earn at least a B average in order to remain in the Honors/Advanced Placement courses. If a student fails to maintain a B average, proper placement will be discussed by the Department Chair and Assistant Principal of Academic Programs & Records. In order to move into Honors or Advanced Placement courses from a Regular Placement course, a student must earn a high A in his previous math course and receive approval from members of the Math Department.

MATHEMATICS COURSES

MAT 101 - ALGEBRA I

1 credit

This course introduces students to the fundamentals of the language of mathematics and the applications of this language to the solution of problems. Topics include the order of operations; properties of real numbers; polynomials; factoring; operations with rational expressions; solutions of quadratic equations by factoring, completing the square, and the quadratic formula; graphs of inequalities; solutions of systems of equations by graphing, substitution and elimination. Special emphasis is given to the solution of verbal problems as applications of techniques taught throughout the year.

Prerequisite: None

MAT 102 - HONORS ALGEBRA

1 credit

This course is an alternative to MAT 101 for students who have special talent and proficiency in mathematics and who have had significant exposure to Algebra prior to 9th grade. The course includes an accelerated review of Algebra I topics along with the introduction of all the major topics included in a traditional Algebra II course including graphical translations; polynomial equations; radical functions and rational exponents; exponential and logarithmic functions; advanced factoring; complex numbers and set notation.

Prerequisite: Qualifying score on the Spring Qualifying Exam.

MAT 201 - GEOMETRY

1 credit

This course introduces students to the traditional Euclidean properties of plane and space figures and strives to give students an appreciation for the nature of deductive proof and its importance in mathematics. Topics include congruence; similarity; parallel lines; area of these apply to triangles, quadrilaterals, other polygons, circles; volume of prisms, pyramids, cylinders, cones and spheres; and right triangle trigonometry. This course provides a review of certain Algebra I topics, including writing the equations of lines and solving systems of equations.

Prerequisite: Algebra I or Honors Algebra.

MAT 202 - HONORS GEOMETRY

1 credit

This course covers all the concepts covered in MAT 201 in greater depth with an emphasis on the construction and application of formal proofs. Concepts are presented at an accelerated pace which allows the introduction of a greater variety of topics including Trigonometry and Coordinate Geometry.

Prerequisite: "B" in Honors Algebra or high "A" in Algebra I and department approval.

MAT 301 - ALGEBRA II/TRIGONOMETRY

1 credit

This course combines the content of a traditional Algebra II course including graphical translations; polynomial equations; radical functions and rational exponents; exponential and logarithmic functions; advanced factoring; complex numbers; and trigonometry. The

concepts of relation and function are stressed throughout the course and many concepts are presented using graphs of functions to give visualizations of the ideas.

Prerequisite: Geometry or Honors Geometry.

MAT 302 - HONORS PRE-CALCULUS

1 credit

This course is designed for specially qualified students who have demonstrated above-average ability and interest in mathematics and who have a strong desire to study Calculus [particularly AP Calculus] in the following year. The course presents content similar to that in MAT 301, but does so more rigorously. Students are also expected to encounter more challenging exercises and homework assignments. All students will be required to have a TI-89 graphing calculator.

Prerequisite: Students must earn at least a "B" in Honors Geometry or a strong A in Geometry and they must pass a placement test offered in the Spring.

MAT 401 - CALCULUS

1 credit

This course will cover many pre-calculus topics in detail including a review of functions, trigonometry and the transcendental functions. The course will also cover many calculus topics including limits, the derivative and its many applications, and an introduction to the integral. All students will be required to have a TI-89 graphing calculator.

Prerequisite: Honors Pre-calculus or a "B" or higher in Algebra II/Trigonometry and department approval.

MAT 402 - AP CALCULUS AB

1 credit

This course follows the syllabus for AP Calculus AB established by the Advanced Placement Program of the College Board. Limits, derivatives, integrals, and their applications will be studied. All students who take the AP Calculus course are required to have a TI-89 graphing calculator and to take the AP examination given in May.

Prerequisite: At least a "B" in Honors Pre-calculus and department approval.

MAT 403 - AP CALCULUS BC

1 credit

This course follows the syllabus for AP Calculus BC established by the Advanced Placement Program of the College Board. It is intended for those students who have already completed AP Calculus AB. Major topics to be covered are Integration techniques such as trigonometric substitution and partial fractions, convergence and divergence of infinite series, Taylor and Maclaurin series, approximation of definite integrals by series or by Simpson's Rule and applications of differentiation and integration on curves defined parametrically or in polar coordinates. All students taking the course must have a TI-89 graphing calculator and must take the AP examination in May.

Prerequisite: At least a "B" in AP Calculus AB and department approval.

MAT 404 - MATRICES, PROBABILITY AND STATISTICS

1 credit

This course is geared toward students interested in business or the life and social sciences. Students in this course are introduced to mathematical ideas which lie outside of the typical high school mathematics program. This college level course begins with the study of the mathematics of finance [compound interest formulas, annuity formulas and

loan payment formulas]. Time is spent on the properties of and operations with matrices. This matrix theory is applied to the solution of multi-variable linear systems and in the "Simplex Method" of linear programming. The laws of probability are introduced and applied in statistics. Also included are the ideas of sample space, permutations, combinations and conditional probability (Bayes' Theorem). Additional topics that are developed are random variables, frequency and probability distributions, means, variances, standard deviations and normal and binomial distributions. The matrix concepts are integrated with the probability unit through the development of the ideas of probability and transition matrices in a Markov chain.

Prerequisite: Algebra II/Trigonometry, Honors Pre-calculus or any 400 level math course.

MAT 405 - AP STATISTICS

1 credit

This course will follow the syllabus for AP Statistics established for the Advanced Placement Program of the College Board. All students will be required to take the AP Statistics Exam in May. The topics for the course are divided into four major themes: exploratory analysis, planning a study, probability, and statistical inference. Special emphasis is placed upon practical applications and the ability to detect statistical bias when reading interpretations of data. Students will be required to have a TI-89 graphing calculator.

Prerequisite: AP Calculus AB, AP Calculus BC or at least a "B" in Honors Pre-calculus and department approval.

Note: Department approval is based upon grade history and teacher recommendations.

MODERN LANGUAGE DEPARTMENT

Level I (French, Spanish, German)

FRENCH I - MLA 201 1 credit

GERMAN I - MLA 202 1 credit

SPANISH I - MLA 203 1 credit

The aim of the Level I course is to stress the four skills of listening, speaking, reading and writing in the target language. Students become familiar with common expressions and vocabulary, as well as basic sentence structures and tenses of verbs. The course also offers an introduction to the culture, civilization and geography of the countries where the target language is spoken.

HONORS SPANISH I - MLA 204 1 credit

Students admitted to Honors Spanish I will follow the normal Spanish I syllabus in a more accelerated fashion. Intensive writing exercises, including frequent presentations in Spanish will be required.

Prerequisite: Incoming freshmen should have completed at least two years of Spanish at the elementary level. They must provide information about the Spanish courses taken at their elementary school and provide a letter of recommendation from their modern language teacher. Current freshmen must have a GPA of 3.5 at the end of the third marking period and must secure a recommendation from two current teachers.

HONORS FRENCH I - MLA 205 1 credit

Students admitted to Honors French I will follow the normal French I syllabus in a more accelerated fashion. In addition, the student will be responsible for monthly writing assignments and a final presentation in French.

Prerequisite: Incoming freshmen should have completed at least two years of French at the elementary level. They must provide information about the French courses taken at their elementary school and provide a letter of recommendation from their modern language teacher. Students having no prior French experience *may* apply for placement, based on recommendations and grades from eighth grade. Current freshmen must have a GPA of 3.5 at the end of the second semester and must secure a recommendation from two current teachers.

Level II (French, Spanish, German)

FRENCH II - MLA 301

1 credit

GERMAN II - MLA 302

1 credit

SPANISH II - MLA 303

1 credit

This course is conducted in the target language. Communication skills are expanded to an intermediate level. Students learn to function in a real-life context, building vocabulary skills that help them to function in practical situations. Class activities include small group work, individual and group writing projects, as well as individual projects that enhance the students' appreciation of the culture and civilization of the target country.

Prerequisite: Successful completion of Level I. *Incoming freshmen or current freshmen may be required to take a placement test for admission to this course without having completed Level I at The Prep.*

HONORS SPANISH II - MLA 304

1 credit

Students admitted to Spanish II Honors will follow the Spanish II syllabus in a more accelerated fashion. Intensive writing exercises, including frequent presentations in Spanish will be required.

Prerequisite: Completion of level I at the Prep. B+ average in Spanish I and recommendation of the Spanish I instructor. Incoming freshmen must take an exam in the four skills to be admitted to this course.

HONORS FRENCH II - MLA 305

1 credit

In this course, students cover the syllabus for French II at a more accelerated pace and may be required to complete monthly writing assignments and a final project in French.

Prerequisite: Completion of level I at the Prep and an "A" average in the course as of the 3rd marking period. Approval of the French I/Honors French I instructor is required. In certain situations, a student with a "B+" who has demonstrated proficiency and interest in the language may be admitted to this course with the recommendation of the current instructor and the approval of the department chair. *Incoming freshmen or current freshmen may be required to take a placement test for admission to this course without having completed Level I at The Prep.*

MANDARIN CHINESE I - MLA 501

1 credit

The aim of the Level I course is to stress the four skills of listening, speaking, reading and writing in the target language. Students learn the writing system of Mandarin Chinese characters, as well as tone and pitch of words. Students become familiar with common expressions and vocabulary, as well as basic sentence structures and tenses of verbs. The course also offers an introduction to the culture, civilization and geography of the countries where the target language is spoken. Admittance to class is through approval of the department chair.

LEVEL III (French, Spanish, German)

<u>FRENCH III - MLA 401</u>	1 credit
<u>GERMAN III - MLA 402</u>	1 credit
<u>SPANISH III - MLA 403</u>	1 credit

The Level III course is conducted almost entirely in the target language. Advanced grammatical concepts and vocabulary help the students to improve their accuracy in listening, speaking, reading and writing the target language. Students develop the ability to express their needs and preferences and to carry on extended conversations. Short stories, articles, video and other materials are used to strengthen skills and further develop cross-cultural awareness.

Prerequisite: Successful completion of Level II

HONORS SPANISH III - MLA 404 1 credit

This course is conducted entirely in Spanish. Students admitted to Spanish III Honors will follow the Spanish III syllabus in a more accelerated fashion. Intensive writing exercises, including frequent presentations in Spanish will be required

Prerequisite: A average in Spanish II and the approval of the Spanish II instructor. Students accepted to this course must sign a “Spanish-only” contract.

HONORS FRENCH III - MLA 409 1 credit

This course is conducted entirely in the target language. In addition to the normal French III syllabus, students engage in writing/speaking projects on a monthly basis and must complete a presentation in French at the end of the year.

Prerequisite: An “A” in French II at the end of the first semester and the approval of the French II instructor. Students must sign a “French only” contract to be admitted to this course. In certain situations, a student with a “B+” who has demonstrated proficiency and interest in the language may be admitted to this course with the recommendation of the French II instructor and the approval of the department chair.

MANDARIN CHINESE II - MLA 502 1 credit

This course is conducted as much as possible in the target language. Communication skills are expanded to an intermediate level. Students enhance their knowledge of the writing system of Mandarin Chinese characters, as well as tone and pitch of words. Students learn to function in a real-life context, building vocabulary skills that help them to function in practical situations. Class activities include small group work, individual and group writing projects, as well as individual projects that enhance the students’ appreciation of the culture and civilization of the target country.

Prerequisite: Completion of Chinese I at The Prep. Any student wishing to take this course without Chinese I at The Prep will be required to take a placement test for admission, which includes speaking, writing and listening comprehension sections.

<u>SPANISH IV - MLA 405</u>	1 credit
<u>FRENCH IV - MLA 406</u>	1 credit
<u>GERMAN IV - MLA 407</u>	1 credit

This advanced course is conducted entirely in the language. A variety of literary, historical and cultural readings are used to increase the student's facility in using the language. Advanced grammar topics are introduced to help the student to become a more proficient writer. Participation in class discussions is emphasized and frequent student presentations in the target language are expected. Several feature films supplement the course material.

Prerequisite: Students must sign a "Spanish-only" contract. Successful completion of Spanish III and the approval of Spanish III instructor are also required.

<u>AP SPANISH IV - MLA 411</u>	1 credit
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AP Spanish Course Description: Students arrive at the AP Spanish Language course by advancing through regular or honors academic classes. Teacher and department chair recommendations are required to secure placement in this course.

The Modern Language Department at St. Joseph's Prep supports the philosophy that the four skills (listening, reading, writing, speaking) tested on the AP Spanish Language Exam should be reinforced in a continuum of skill building from one level to the next. It recognizes that the exam requires considerable accuracy in all four skills. The teacher uses Spanish almost exclusively in class and encourages students to do so as well.

The classes are conducted in a challenging but supportive environment that promotes student interest without compromising high academic standards and integrity.

Prerequisite: Students must sign a "Spanish only" contract. Successful completion of Spanish III at The Prep and an "A" average in the course as of the third marking period.

<u>HONORS SPANISH IV - MLA 408</u>	1 credit
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This advanced course is conducted entirely in the language. A variety of literary, historical and cultural readings are used to increase the student's facility in the language. Advanced grammar and vocabulary is thoroughly reviewed and serve as a basis for advanced writing and a survey of Spanish/Hispanic literature. Students will complete various writing assignments and projects during the course.

Prerequisite: Students must sign a "Spanish only" contract. Successful completion of level III and the approval of the level III instructor and the department chair are required.

<u>HONORS FRENCH IV - MLA 410</u>	1 credit
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This advanced course is conducted entirely in the language. A variety of literary, historical and cultural readings are used to increase the student's facility in the language. Advanced grammar and vocabulary is thoroughly reviewed and serve as a basis for advanced writing and a survey of literature from France and other francophone countries. Students will complete various writing assignments and projects during the course.

Prerequisite: Students must sign a “French only” contract. Successful completion of level III and the approval of the level III instructor and the department chair are required.

MANDARIN CHINESE III - MLA 503

1 credit

This course continues to build on the skills developed in Mandarin Chinese II. Communication skills are expanded to an intermediate level. Students enhance their knowledge of the writing system of Mandarin Chinese characters, as well as tone and pitch of words. Students learn to function in a real-life context, building vocabulary skills that help them to function in practical situations. Class activities include small group work, individual and group writing projects, as well as individual projects that enhance the students’ appreciation of the culture and civilization of the target country.

Prerequisite: Completion of Chinese I and II at The Prep. Any student wishing to take this course without these earlier courses at The Prep will be required to take a placement test for admission, which includes speaking, writing and listening comprehension sections.

MANDARIN CHINESE IV - MLA 504

1 credit

This course continues to build on the skills developed in Mandarin Chinese III. Communication skills are expanded to an intermediate level. Students enhance their knowledge of speaking, recognition, listening comprehension skills, as well as writing system of Mandarin Chinese characters. Students learn to function in a real-life context, building vocabulary skills that help them to function in practical situations. Class activities include small group works, individual and group speaking projects, as well as individual projects that enhance the student’s appreciation of the culture and civilization of the target country.

Prerequisite: Completion of Chinese I, II and III at The Prep. Any student wishing to take this course without this earlier course at The Prep will be required to take a placement test for admission, which includes speaking, listening comprehension and writing sections.

PHYSICAL EDUCATION DEPARTMENT

PHYSICAL EDUCATION AND HEALTH

PED 101	1 credit
PED 201	1 credit
PED 301	1 credit
PED 401	1 credit

In the Health Education component at Saint Joseph's Prep, students are provided with information, which will enable them to assess their own philosophies of health, and from this to develop personal values conducive to a healthy mind and body. Health Education at St. Joseph's Prep is handled in an inter-disciplinary approach. Units and programs are provided for our students in the Religion and Science departments, as well as the Counseling Department and assembly programs. The four-year program provides learning in the areas of human sexuality, drug and alcohol education, life and career application, stress and mental health, and nutrition and physical well-being.

The Physical Education Program at The Prep consists of inter-scholastic sports; school administered intramural programs, and a variety of club activities and events that have a physical activity component to them. In order for a student to satisfy their physical education requirement, annual participation in any of those programs must equal (20) hours. One may elect to participate in one or a combination of inter-scholastic sports, school administered intramural programs, or any of the various clubs, activities, and events offered. Opportunities to meet this requirement are offered in the fall, winter and spring seasons. A log of student participation hours will be kept for sports teams, intramural programs, as well as by club and activity moderators. Participation in Health and Physical Education programs over a four-year period must equal 80 hours.

RELIGIOUS STUDIES DEPARTMENT

GRADE 9

HEBREW SCRIPTURES/WORLD RELIGIONS - REL 101 1 credit

The curriculum is divided into four components: world religions, overview of Catholic doctrines, Hebrew Scriptures and human sexuality. To address the freshman's rapid emotional, intellectual and spiritual growth, the course begins with an investigation of the nature of religion, especially as a universal phenomenon in all cultures, then continues with a survey of the world's major religions. The Hebrew Scriptures, the primary focus of the freshman curriculum, will be studied from the perspective of modern biblical scholarship and will introduce students to a mature awareness of divine revelation and the role of scripture in shaping a contemporary image of God as a compassionate Father. The final component addresses the maturing adolescent's sexual identity in an attempt to complement earlier education in the home and at school and treats both physical and moral issues.

Prerequisite: None

GRADE 10

THE CHRISTIAN SCRIPTURES & THE SACRAMENTS - REL 201 1 credit

Sophomore students continue their study of divine revelation by focusing on the Christian scriptures as an outgrowth of the early Christian community's experience of God in Jesus. Using available secular, historical, and linguistic scholarship, students will study the essential underlying message contained in the Christian scriptures in an attempt to deepen each student's spirituality by placing him in the presence of the biblical Jesus as he was viewed by the early Christian community. In addition to these written records of the Christian message, students will also consider the Christian community's rituals of worship, the sacraments, focusing on the sacraments of initiation: Baptism, Confirmation and Eucharist. The sacraments will be viewed as personal encounters with Christ as well as institutional rituals that have developed over the course of the church's history. Students will also be introduced to key points of Ignatian spirituality to prepare them for the Sophomore Conversation, a program of service and reflection on the five characteristics of the "graduate at graduation."

Prerequisite: None

GRADE 11

CHURCH HISTORY - REL 301 ½ credit

Students will develop a mature sense of the history, evolution and continuity of the Roman Catholic Church as a community of believers in Jesus and His way of life. In addition to institutional changes in the church's history, major theological developments which have affected the life, beliefs and ritual practices of Catholics are considered,

including special challenges faced by the church, both internally and in its relation to the world. The course is intended to help students locate their roots in the Christian community, give them a sense of how the church came into being as an institution, and help them appreciate the role of the church in shaping today's world.

CHRISTIAN ETHICS - REL 302

½ credit

In this course, students will examine Catholic moral decision-making. Topics will include methods of decision-making, Christian values and principles derived from Scripture and Catholic tradition, conscience, evil and sin, and Jesus as the model of moral behavior. These concepts will be applied to specific areas of moral concern, including bioethical and sexual issues, with major concentration of social justice issues such as poverty, capital punishment, business ethics, the environment, and discrimination.

Prerequisite: None

GRADE 12

SYSTEMATIC THEOLOGY - REL 401 [Required]

½ credit

This course examines and explains fundamental Catholic beliefs, their origin, meaning and purpose. Special attention is paid to the developmental character of these beliefs and the need for a personal response by each student. Topics include: The Existence of God, Revelation, Incarnation, Salvation, Church Structure, Original Sin, the Sacraments, and Resurrection.

Prerequisite: None

Senior Electives

SOCIAL ETHICS OF WAR AND PEACE - REL 404

½ credit

This course will utilize the insights of depth psychology, spirituality and social ethics to grapple with the fascination and fear regarding the warrior within all of us. How can this inner warrior be directed to assist the person in the human journey without destroying oneself or others? Once this internal investigation takes place, then the ethical examination regarding the role of the warrior in society is discussed. This course will focus upon the Roman Catholic ethical tradition including the views of pacifism and the just war tradition. Films, case studies and current events will be used to highlight the role of conscientious decision-making. The student will be challenged to personally reflect and apply the course material to his own life journey.

Prerequisite: None

BIOETHICS - REL 403

½ credit

Within the context of the Roman Catholic moral tradition, students will examine contemporary medical-moral issues, especially as they impact on both the student's life and on society at large. In addition to shaping informed and responsible personal conclusions, social policies will also be evaluated. Early in the course, students will acquire an understanding of key concepts necessary for analyzing issues clearly and comprehensively. Issues treated include abortion, treatment of handicapped infants, death and the dying process (including physician-assisted, or rational, suicide), care for

the elderly, organ transplants, genetic engineering/reproductive technologies, and health care reform. Special attention will be directed to holistic health care and the internal, natural capacity for self-healing.

Prerequisite: None

THE IGNATIAN WAY - REL 407

½ credit

This course seeks to provide seniors with an intellectual awareness, a heart-felt sense, and an experience of the various facets of the Ignatian charism. It proposes a way of life that is learned primarily through practice. The course covers the life of Ignatius, the graces of the Spiritual Exercises, the gathering of the First Companions and the founding of the Society of Jesus, early and contemporary expressions of the Society's apostolic objective, the lives of notable Jesuits, and various themes associated with Ignatian spirituality.

Students are expected to consistently display age appropriate maturity sufficient to engage in Ignatian prayer, assigned readings, service opportunities, group discussion, and regular spiritual conversation with a mentor. The assessment of student performance is based on regular spiritual conversation with an assigned mentor, two three page essays, and a one page reflection at the end of each cycle.

Students must have the pre-approval of the instructors prior to registering for the course. The course is limited to eighteen students per section.

NATIVE AMERICAN SPIRITUALITY - REL 408

½ credit

In this course, students are introduced to the spirituality, culture and history of Native Americans with a focus on the Lakota nation. Major elements of Lakota religion will be compared to aspects of Catholicism. Students will examine the Lakota view of God, creation stories, and other myths and rituals. Issues of justice in relation to Indian reservation life will also be analyzed through the lens of Catholic social teaching. The course culminates in an eight-day immersion trip to Pine Ridge Indian Reservation, at which students will participate in Lakota ceremonies and community service, visit significant historical sites and hear from residents of the reservation. For logistical purposes, the class is limited to twelve students. To qualify, students must undergo an application process. The course includes a travel expense fee of \$1,100, which will be defrayed by fund raising efforts which will be described by the instructor. (The trip will take place in June, *following* graduation.)

SCIENCE DEPARTMENT

GRADE 9

PHYSICAL SCIENCE - SCI 101

1 credit

Physical Science is a two semester course designed for most incoming freshmen. It reinforces and reviews a student's elementary science education, then shifts the focus of attention to more complex scientific principles and devices which illustrate technical applications. The purpose of this course is to develop an understanding of natural laws in the student who will observe natural phenomena and collect information by performing simple experiments in chemistry and physics. The scientific method of investigation will be applied especially in the study of motion, energy, and matter. The student will search for regular patterns in experimental results using basic math skills and the metric system of measurement. Upon completion of this course, a student should be able to make accurate observations, use problem-solving techniques, and reason to a logical conclusion; thus, he will be better prepared for future science courses in the school's program of studies.

Prerequisite: None

BIOLOGY - SCI 102

1 credit

This course is an introduction to the life sciences. Its major objective is to give the student an appreciation and understanding of life processes. The introductory course focuses on several themes in the life sciences: diversity and the unity of life, interdependence of organisms, evolution and science as a process. Topics include molecular biology, molecular genetics, cell biology, metabolism, classical genetics, microbiology, botany, zoology and human biology. Library skills and internet research are emphasized for projects and reports. Laboratory work using the scientific method with an emphasis on data analysis is emphasized. The scientific method is highlighted in learning how to write a lab report. Laboratory work is an integral part of the course with students developing skills with the microscope during the first semester and proper dissection technique during the second semester.

Prerequisite: Based on Scholarship-Entrance Exam and Qualifying Test

GRADE 10

BIOLOGY - SCI 201

1 credit

This course is an introduction to the life sciences. Its major objective is to give the student an appreciation and understanding of life processes. The introductory course focuses on several themes in the life sciences: diversity and the unity of life, interdependence of organisms, evolution and science as a process. Topics include molecular biology, molecular genetics, cell biology, metabolism, classical genetics, microbiology, botany, zoology and human biology. Library skills and internet research are emphasized for projects and reports. Laboratory work using the scientific method with an emphasis on data analysis is emphasized. The scientific method is highlighted in learning how to write a lab report. Laboratory work is an integral part of the course with students developing skills with the microscope during the first semester and proper dissection technique during the second semester.

Prerequisite: Successful completion of Physical Science

CHEMISTRY - SCI 202

1 credit

This course provides the student with a fundamental grasp of chemistry which includes using scientific measurement and lab techniques, classification of matter, the behavior of gases, the characteristics of liquids and solids, atomic structure, periodicity, chemical bonds, equilibrium, and theories and reactions of acids and bases as well as kinetics and thermochemistry. The course also provides a brief introduction to both organic and nuclear chemistry and endeavors to develop sensitivity to concerns about chemical pollution and protection of the environment. Some of the skills that a student will achieve during the course include problem-solving techniques, analytical thinking, expressing ideas with clarity and logic; significant figures/rounding off of calculations, proper usage of research for project/reports, as well as the use of mathematical relationships to predict outcomes. Labs are structured to enforce the understanding of the chemical topics taught within the classroom setting. Students are required to develop and apply the scientific method in producing a lab report based on his experimental results. Labs are both physical as well as technologically based experimentation.

Prerequisite: Successful completion of Biology

GRADE 11

CHEMISTRY- SCI 301

1 credit

This course provides the student with a fundamental grasp of chemistry which includes using scientific measurement and lab techniques, classification of matter, the behavior of gases, the characteristics of liquids and solids, atomic structure, periodicity, chemical bonds, equilibrium, and theories and reactions of acids and bases as well as kinetics and thermochemistry. The course also provides a brief introduction to both organic and nuclear chemistry and endeavors to develop sensitivity to concerns about chemical pollution and protection of the environment. Some of the skills that a student will achieve during the course include problem-solving techniques, analytical thinking, expressing ideas with clarity and logic; significant figures/rounding off of calculations, proper usage of research for project/reports, as well as the use of mathematical relationships to predict outcomes. Labs are structured to enforce the understanding of the chemical topics taught within the classroom setting. Students are required to develop and apply the scientific method in producing a lab report based on his experimental results. Labs are both physical as well as technologically based experimentation.

Prerequisite: Successful completion of Physical Science and Biology.

AP CHEMISTRY - SCI 402 [Based on enrollment]

1 credit

The Advanced Placement Chemistry course is designed to be the equivalent of a general Chemistry course usually taken by freshmen in college. Students in the AP Chemistry course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems and equations. The course contributes to the development of the student's abilities to think clearly and express his ideas with clarity and logic. The AP Chemistry course differs qualitatively from the usual secondary course in Chemistry with respect to the type of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by students. Some of the skills an AP Chemistry student will achieve are the appropriate use of scientific equipment, the ability to handle a comprehensive exam, identifying unknowns from laboratory techniques, and a positive attitude and concern for the proper use of chemistry in relation to environmental issues. A double period lab is given every cycle and students are required to complete a written lab report the following cycle. Labs are both physical as well as technologically based experimentation. Students are required to take the College Board AP Exam in May.

Prerequisite: Successful completion of Biology and Chemistry with grades of B+ in Biology and an A in Chemistry. Chemistry taken in a summer school program does not qualify a student for AP Chemistry. A full year Chemistry course is required. Admission to A.P. Science courses must include approval of the student's introductory level instructor and the department chairperson.

PHYSICS - SCI 403

1 credit

Physics is the study of a very broad range of topics. Some of the topics included in the study of physics are the nature of light, the motion of objects, the nature and effects of

gravity, the behavior of solids, liquids and gases, atomic structure, and the nature of electricity and magnetism. All of these topics are related through the fundamental forces of nature. The general physics course begins with the study of motion and develops the concepts needed to begin to understand the phenomena listed above. This course concentrates on problem solving. The problems are used to develop and expand understanding of the principles presented. Two languages are used in this course: English and mathematics. The mathematics used at this level includes algebra, geometry and basic trigonometry. This course is prerequisite for AP Physics.

Prerequisite: Successful completion of Biology, Chemistry.

AP BIOLOGY - SCI 404 [Based on enrollment]

1 credit

The Advanced Placement Course in Biology in the high school should meet the objectives of a general biology course at the college level. The objectives of the course are the following:

- knowledge of the facts, principles and processes of biology;
- understanding of the means by which biological information is collected, how it is interpreted and how one formulates hypotheses from available data and make further predictions;
- understanding that science is a human endeavor with social consequences;
- to emphasize critical thinking and writing abilities.

Topics covered in the course will include: biochemistry, cellular biology, photosynthesis, genetics, evolution, anatomy, physiology and ecology. Because of the scope of the curriculum and because of our time limitations, some areas of biology are skimmed over and other are omitted. Students must assume the responsibility for filling in these gaps with their own reading programs.

Students are required to take the College Board AP Examination in May.

Prerequisite: Student must have an A average in Biology and a B+ in Chemistry.

Chemistry taken in a summer school program does not qualify a student for AP Biology. A full year Chemistry course is required. Admission to AP Science courses must include approval of the department chairperson.

ENVIRONMENTAL SCIENCE - SCI 409 [Based on enrollment]

1 credit

Man's impact on biodiversity and sustaining natural ecosystems is a global concern. This course will focus on examining the interrelationship between living organisms and their natural environment. Basic principles of science will be studied to analyze environmental problems and discuss potential solutions to them. Current issues of water and air pollution, climate change, depletion of natural resources, and loss of biodiversity within the different ecosystems of the world are representative topics. The lab component of the course incorporates structured investigations in the lab and field trips to local sites of interest. This is a two-semester lab course.

Prerequisite: Successful completion of Biology and Chemistry.

HUMAN ANATOMY AND PHYSIOLOGY - SCI 410 [Based on enrollment] 1 credit

The Anatomy and Physiology course is a full year elective science class planned for students who are planning to major in science or the health fields in college. Students who are not planning to major in a science but are seeking a more in-depth science course that addresses their interests and prepares them for a human biology class in college will also benefit from this class. The course involves learning the systems of the human body. It emphasizes the complementary nature of structure and function, homeostatic mechanisms, interaction between humans and their environment, metabolic processes, common injuries and diseases. The lab component will include dissections of the cat as well as organs from other animals.

Prerequisite: Minimum C+ in Chemistry and a minimum B in Biology

GRADE 12

CHEMISTRY - SCI 301

1 credit

This course provides the student with a fundamental grasp of chemistry which includes using scientific measurement and lab techniques, classification of matter, the behavior of gases, the characteristics of liquids and solids, atomic structure, periodicity, chemical bonds, equilibrium, and theories and reactions of acids and bases as well as kinetics and thermochemistry. The course also provides a brief introduction to both organic and nuclear chemistry and endeavors to develop sensitivity to concerns about chemical pollution and protection of the environment. Some of the skills that a student will achieve during the course include problem-solving techniques, analytical thinking, expressing ideas with clarity and logic; significant figures/rounding off of calculations, proper usage of research for project/reports, as well as the use of mathematical relationships to predict outcomes. Labs are structured to enforce the understanding of the chemical topics taught within the classroom setting. Students are required to develop and apply the scientific method in producing a lab report based on his experimental results. Labs are both physical as well as technologically based experimentation.

Prerequisite: Successful completion of Physical Science and Biology.

AP CHEMISTRY - SCI 402 [Based on enrollment]

1 credit

The Advanced Placement Chemistry course is designed to be the equivalent of a general Chemistry course usually taken by freshmen in college. Students in the AP Chemistry course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems and equations. The course contributes to the development of the student's abilities to think clearly and express his ideas with clarity and logic. The AP Chemistry course differs qualitatively from the usual secondary course in Chemistry with respect to the type of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by students. Some of the skills an AP Chemistry student will achieve are the appropriate use of scientific equipment, the ability to handle a comprehensive exam, identifying unknowns from laboratory techniques, and a positive attitude and concern for the proper use of chemistry in relation to environmental issues. A double period lab is given every cycle and students are required to complete a written lab report the following cycle. Labs are both physical as well as technologically based experimentation. Students are required to take the College Board AP Exam in May.

Prerequisite: Successful completion of Biology and Chemistry with grades of B+ in Biology and an A in Chemistry. Chemistry taken in a summer school program does not qualify a student for AP Chemistry. A full year Chemistry course is required. Admission to AP Science courses must include approval of the student's introductory level instructor and the department chairperson.

PHYSICS - SCI 403

1 credit

Physics is the study of a very broad range of topics. Some of the topics included in the study of physics are the nature of light, the motion of objects, the nature and effects of gravity, the behavior of solids, liquids and gases, atomic structure, the nature of electricity and magnetism. All of these topics are related through the fundamental forces of nature. The general physics course begins with the study of motion and develops the concepts needed to begin to understand the phenomena listed above. This course concentrates on problem solving. The problems are used to develop and expand understanding of the principles presented. Two languages are used in this course: English and mathematics. The mathematics used at this level includes algebra, geometry and basic trigonometry.

Prerequisite: Successful completion of Biology, Chemistry

AP BIOLOGY - SCI 404 [Based on enrollment]

1 credit

The Advanced Placement Course in Biology in the high school should meet the objectives of a general biology course at the college level. The objectives of the course are the following:

- knowledge of the facts, principles and processes of biology;
- understanding of the means by which biological information is collected, how it is interpreted and how one formulates hypotheses from available data and make further predictions;
- understanding that science is a human endeavor with social consequences;
- to emphasize critical thinking and writing abilities.

Topics covered in the course will include: biochemistry, cellular biology, photosynthesis, genetics, evolution, anatomy, physiology and ecology. Because of the scope of the curriculum and because of our time limitations, some areas of biology are skimmed over and other are omitted. Students must assume the responsibility for filling in these gaps with their own reading programs.

Students are required to take the College Board AP Examination in May.

Prerequisite: Student must have an A average in Biology and a B+ in Chemistry.

Chemistry taken in a summer school program does not qualify a student for AP Biology.

A full year Chemistry course is required. Admission to A.P. Science courses must include approval of the department chairperson.

AP PHYSICS - Level C - SCI 407 [Based on enrollment]

1 credit

This course follows the guidelines published by the College Board. It is approximately one-half mechanics and one-half electricity and magnetism. Use of calculus in problem solving and in derivations will increase as the course progresses. In the second semester, calculus will be used freely in formulating principles and in solving problems. Students are required to take the College Board AP Physics C Exam in May which includes both mechanics and electricity/magnetism sections.

Prerequisite: Successful completion of Biology, Chemistry and Physics. Student must have B+ or better average in all prior math and science courses and approval of the department chairperson. Calculus is a co-requisite with this course.

ENVIRONMENTAL SCIENCE - SCI 409 [Based on enrollment] 1 credit

Man's impact on biodiversity and sustaining natural ecosystems is a global concern. This course will focus on examining the interrelationship between living organisms and their natural environment. Basic principles of science will be studied to analyze environmental problems and discuss potential solutions to them. Current issues of water and air pollution, climate change, depletion of natural resources, and loss of biodiversity within the different ecosystems of the world are representative topics. The lab component of the course incorporates structured investigations in the lab and field trips to local sites of interest. This is a two-semester lab course.

Prerequisite: Successful completion of Biology and Chemistry.

HUMAN ANATOMY AND PHYSIOLOGY - SCI 410 [Based on enrollment] 1 credit

The Anatomy and Physiology course is a full year elective science class planned for students who are planning to major in science or the health fields in college. Students who are not planning to major in a science but are seeking a more in-depth science course that addresses their interests and prepares them for a human biology class in college will also benefit from this class. The course involves learning the systems of the human body. It emphasizes the complementary nature of structure and function, homeostatic mechanisms, interaction between humans and their environment, metabolic processes, common injuries and diseases. The lab component will include dissections of the cat as well as organs from other animals.

Prerequisite: Minimum C+ in Chemistry and a minimum B in Biology

SOCIAL SCIENCE DEPARTMENT

GRADE 12

AP PSYCHOLOGY - PSY 401

1 credit

This course will introduce students to the systematic and scientific study of the behavior and the cognitive processes of humans and animals. Psychology will be presented as both a theoretical and a practical science. Students will examine significant psychological research and learn how psychology impacts everyday lives. Major topics of study include: research methods and statistics, neuroanatomy and brain physiology, human development, sensation and perception, states of consciousness, learning, memory, thinking and language, intelligence, motivation, emotion, personality, abnormal behavior and psychopathology, psychotherapy, stress and coping, and social psychology. This course will use a combination of lectures, demonstrations, class discussions, research articles, and videos. A critical component of this class will be assigned reading and written assignments.

Prerequisite: Minimum of a 3.75 cumulative GPA, an A in Biology, the instructor's approval and the successful completion of a qualifying project.

INTRODUCTION TO ECONOMICS - HIS 408

½ credit

This course is a survey of the fundamental concepts of Microeconomics and Macroeconomics. It is intended to provide a general understanding and working knowledge of economic concepts needed for living in a market economy. Microeconomics focuses on the decision making process of a single individual, household, firm, industry, or level of government. Macroeconomics is the branch of Economics that studies decision-making by the economy as a whole. The two branches of Economics are related, as the overall economy is a sum of its parts. As a social science, this course analyzes how individual choices affect the overall economic conditions facing society. Also, formal writing will be assigned to each student to investigate current issues. This course is conceptual and has no math prerequisites. This course runs both semesters.

Prerequisite: none

INTRODUCTION TO PSYCHOLOGY - PSY402

½ credit

Psychology is a broad and fascinating science. This one semester course will examine how the field of psychological informs our understanding about human behavior, emotions and cognition and impacts our everyday lives. The course will use a combination of interactive lectures, handouts, assigned readings, written assignments, and videos to study a variety of contemporary topics including: applying the scientific method of inquiry to behavior, cognition and emotion; basic neuroscience and physiology; human development across the lifespan; learning, memory, motivation; intelligence and language development; emotion, stress and wellness; and psychological disorders and treatment.

Assessment methods: In addition to major tests, quizzes, and a final examination, students will be required to complete a formal 4-6 page research paper. Please note, *Introduction to Psychology* is a one semester course that fulfills only an “elective” requirement. This course will be offered each semester.

Prerequisite: **None**