

Saint Ignatius High School

2017-2018 Course Catalog



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CURRICULUM OVERVIEW

“A Saint Ignatius education does not exist to make you better than others; it exists to make you better for others.” This quote from our beloved friend Mr. Jim Skerl ‘74 sums up everything we do at Saint Ignatius High School. As a Jesuit high school, we strive not only to meet the standards of the Ohio Department of Education or even the standards of the many excellent colleges and universities that we send our students to after their four year with us. We strive to educate the whole person, mind, body and soul, and to point that education towards the service of God’s people. We strive to teach our students to be “Men for Others”.

The curriculum outlined in these pages is the primary way we form our students and is the only way that every single one of our students is guaranteed to experience. There are, of course, many wonderful extracurricular opportunities but it is our academic curriculum that binds us together as Ignatius men forever. It is the daily experience that each one of our students has during his four years here. As such, we treat each component of this curriculum with respect knowing that it all contributes to the formation of the graduate at graduation as a man who is open to growth, intellectually competent, religious, loving, and committed to doing justice.

What follows here are some devices to help readers see the big picture of our curriculum and a department by department description of the many, many options a student has in choosing his academic path through Saint Ignatius High School.

GENERAL INFORMATION

- All students take either six or seven courses per semester.
- All students will have a 45 minute break for lunch and one other free period during the school day.
- All students must meet the following graduation requirements to earn a Saint Ignatius diploma:

English = 4 credits

Fine Arts = 1.5 credits

- *must include computers and public speaking*

Health/Physical Education = 1 credit

History = 3 credits / 4 recommended

- *must include world history, US history, government and personal finance*

Languages = 3 credits / 4 recommended

- *must be at least three consecutive years in the same language*

Mathematics = 4 credits

- *must include Algebra II*

Science = 3 credits / 4 recommended

- *must include biology, chemistry, and physics*

Theology = 4 credits

Electives = 1 credit

TOTAL = 24.5 credits

TYPICAL PROGRESSION

Freshman		Sophomore		Junior		Senior	
Theology		Theology		Theology		Theology	
Math		Math		Math		Math	
English		English		English		English	
Language		Language		Language		Science	
Science		Science		History		Elective	Elective
History		History		Health	Public Speaking	Elective	Elective
Fine Arts	PE	Computer	PE	Optional Elective	Optional Elective	Optional Elective	Optional Elective

NB: Summer school options may allow for even more electives.

TYPICAL PROGRESSION FOR BAND, CHORUS & STRINGS

Freshman		Sophomore		Junior		Senior	
B,C,S		B,C,S		B,C,S		B,C,S	
Theology		Theology		Theology		Theology	
Math		Math		Math		Math	
English		English		English		English	
Language		Language		Language		Science	
Science		Science		History		PE	Health
History		History		PE	Public Speaking	Optional Elective	Optional Elective

NB: Starting with the 2016-2017 school year, the Computer requirement for Band, Chorus and Strings students will be filled in the Band, Chorus and Strings classes during the school year through a blended learning model incorporating online learning along with in class instruction.

COURSE REGISTRATION POLICIES

A. Course Registration

Course registration at Saint Ignatius High School occurs during the spring semester prior to the school year for which the student is registering. A student currently enrolled at Saint Ignatius will meet with his counselor and consult with teachers and parents before requesting the courses he wants through the online registration system. The academic departments will then review the requests and approve or disapprove based on the judgment of the student's current teachers as to what level of coursework is in the student's best interest academically. Some academic departments also have prerequisites or other special criteria for registering for certain courses that must also be considered. If a student does not receive approval for a course, he may appeal the decision to the department chair. However, the department chair has the final say. It is imperative that course requests are submitted in a timely fashion. Failure to do so may result in students being closed out of courses. Incoming freshman students follow a similar process but placement decisions will be based on grade school teacher recommendations, grade school performance, and testing. Questions or concerns about the registration process should be addressed to a student's counselor.

B. Schedule Changes

Once registration is completed, changes to student's schedule may be made by the school to balance class sizes or fix scheduling errors, e.g. no lunch period, missing a required class, lacking a prerequisite. If a student notices an error in his schedule, he should contact his counselor before classes begin. If a student and his family want to change the classes he has registered for, he should contact his counselor before classes begin. NB: Schedule changes based on preference of teacher or period will not be considered. Once the semester begins, students may not withdraw from a course unless there are sufficient academic reasons to justify withdrawal. Any course changes after the semester begins will result in a grade of W for that course. The course will still appear on the report card and the transcript with a grade of W. The grade of W does not confer any academic credit nor does it impact a student's GPA.

C. Process for Requesting a Course Withdrawal

A student-initiated request for a course withdrawal will only be considered for academic or medical reasons and is dependent on space being available if a new course placement is required. Course withdrawal requests will not be considered after twenty (20) school days from the start of the class. The procedure for a student-initiated change is as follows:

1. The student makes an appointment with his counselor to obtain a course withdrawal request form. The counselor will help the student complete the top portion of the form and will advise the student on the wisdom of the changes. Juniors and seniors will also consult with their college counselor.
2. The student will then consult with the teacher(s) and department chair(s) involved asking for their recommendations and their signatures acknowledging that they had a conversation with the student.
3. The student will then take the form home and review the proposed change with his parents in light of the recommendations from the counselor(s) and teacher(s). Both the student and his parents will sign the form if it is still their intention to pursue a change.
4. Once all signatures have been obtained, the student returns the form to the Principal's office for final consideration by the Assistant Principal for Academics who will determine whether the proposed changes meet the school's criteria for course withdrawals and is in the best interest of the student and the school.
5. Should a course change be approved by the Assistant Principal for Academics, the student's schedule will be changed and all signatories will be notified. A grade of W will be assigned to withdrawn courses and any new courses will be added to the student's schedule. The form will be filed in the student's permanent record.

ENGLISH COURSES

To meet graduation requirements, each student must earn 4 credits in English. The English Department's program strengthens students' abilities to read, think, and write analytically and effectively. We strive to create students who are not only proficient readers and writers but who also understand and appreciate the context, theme, and style of literature. Our program emphasizes understanding, application, analysis, synthesis, and evaluation: skills that are critical not only to the assessment of literature but to the navigation of life itself.

We believe that a Jesuit education allows for the fullest development of all human qualities and ascribe to the Jesuit ideal of eloquentia perfecta, speaking and writing artfully and fluently. Our program therefore is designed to combine critical thinking and disciplined studies with imagination and reflection. We are dedicated to forming life-long learners, men for others.

English I (115)

Length: 2 semesters

Credit: 1 credit

Description: This first year English course has three separate components: language structure, literary forms, and composition skills. In the language structure component, the course offers a complete review of English grammar, mechanics, and usage. In the literature component, students will be introduced to the most common literary genres. The composition component emphasizes writing skills.

Honors English I (119)

Qualifications: Entrance exam score of 90th percentile or higher, grade school grades of A- or better, and recommendation of grade school teachers for advanced coursework

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This first year English course focuses on a systematic study of grammar. However, the pace of this study in Honors English I is quicker with more emphasis placed on developing writing and reading skills. The literary genre study is complemented by writing assignments designed to develop advanced skill with the expository essay and develop an effective writing process. This writing-about-reading approach improves students' appreciation and understanding of grammar and the basic genres as it improves their skills in using inference, literary elements, research, vocabulary, and historical and cultural contexts. Students will write a variety of expository forms including the narrative, the argument, cause and effect, literary analysis, and the impromptu.

English II (125)

Prerequisites: English I (115 or 119)

Length: 2 semesters

Credit: 1 credit

Description: This second year English course begins with a review of grammar and usage. During the first semester, students practice writing paragraphs. In the second semester they practice writing essays. Vocabulary is studied weekly throughout the year. In literature, a variety of novels, plays, short stories, and essays are read and discussed. In addition, there is a survey of American literature

from colonial times to the present. Discussion and analysis of literary works and the proper application of literary terms are also an essential part of the course.

Honors English II (129)

Prerequisites: English I (115 or 119)

Qualifications: Grade of A- or better from the previous school year in a standard level English course or a grade of B+ or better in an honors level English course, an excellent homework record, solid writing ability (B+ or better) and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This second year English course is similar in structure and content to English II. Students enrolled in Honors English II will write a variety of literary analysis compositions in preparation for AP English Literature or Honors English III. Since this is an honors course, students will spend less time with basic skills and review and more time working on analysis and composition skills.

Honors English II: AP Seminar (130)

Prerequisites: English I (115 or 119)

Qualifications: Grade of A- or better from the previous school year in a standard level English course or a grade of B+ or better in an honors level English course, an excellent homework record, solid writing ability (B+ or better) and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Description: This second year English course teaches students how to investigate real-world topics from multiple perspectives; carefully analyze information, write evidence-based arguments and effectively communicate them; and work independently and with a team to research a topic, develop a written report and deliver a presentation. The AP exam score is based on a team project and presentation (25%), an individual research-based essay & presentation (35%), and the end-of-course exam. AP Seminar is the first course in the AP Capstone program. See AP Research (Theology Department) for more details on the Capstone program and Capstone diploma.

English III (135)

Prerequisites: English II (125 or 129)

Length: 2 semesters

Credit: 1 credit

Description: This third year English course has two basic strands: composition and literature. In composition students write six essays and a major research paper. Vocabulary is studied weekly. The course provides a survey of British literature from its origins to the present. In addition to readings from the anthology, novels and plays are assigned. Discussion and analysis of literary works and the proper application of literary terms are essential components.

Honors English III (139)

Prerequisites: English II (125 or 129)

Qualifications: Grade of A- or better from the previous school year in a standard level English course or a grade of B+ or better in an honors level English course, an excellent homework record, solid writing ability (B+ or better) and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This third year English course is intended to be a preparatory course for AP English. In Honors English III students will often work independently on assigned reading or writing tasks. The outcomes for this course are the same as English III; however, instructors are to focus on preparing students for the demands of the outcomes of the AP courses as well. Enrolled students are expected to prepare for class daily in a thorough manner, to write college- level essays by the end of the course, to participate in seminar-style discussion, to increase sophistication of expression, to improve presentation of textual evidence, and to be able to effectively analyze the structure, themes, and language of complex texts.

Advanced Placement English Literature and Composition (150)

Prerequisites: English II (125 or 129)

Qualifications: Grade of A- or better from the previous school year in a standard level English course or a grade of B+ or better in an honors level English course, an excellent homework record, writing sample, an impromptu essay, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 exam fee

Description: This year-long course is open to juniors or seniors and includes both American and British literature in a variety of genres – novels, plays, poems, short stories, and essays. The object of the course is to sharpen critical, analytical, and interpretative skills through close readings of the literature paired with advanced analytical writing. Writing projects include essays, short research papers, and impromptu writing. Students enrolled in AP Literature are expected to enter the course with a strong foundation in the elements of composition. Since this is an AP course, most time will be spent working on independent analysis of texts and writing and not on reviewing the basic elements of composition. All students enrolled in this course are required to take the AP English Literature and Composition exam.

English IV: Literature and Composition (146)

Prerequisites: English III (135 or 139) or AP English Literature (150)

Length: 1 semester

Credit: .5 credit

Description: This fourth year English course is offered in the fall semester and features reading assignments designed to sharpen critical writing skills. Students will also write in a variety of expository genres; the course's major assignment is an MLA-documented paper. Students will then pick from a list of electives (see below) for the spring semester English course.

Honors English IV (149)

Prerequisites: English III (135 or 139) or AP English Literature (150)

Qualifications: Grade of A- or better from the previous school year in a standard level English course or a grade of B+ or better in an honors level English course, an excellent homework record, solid writing ability (B+ or better) and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This fourth year English course provides frequent opportunities to write for different audiences and purposes, to continue to practice the writing process, and to utilize sources within their writing. The techniques of analysis are applied through reading, writing, and class discussions. Increased emphasis will be placed on logic, direct evidence, source-based and primary research, closely observed details, underlying assumptions, language, and style.

Advanced Placement English Language and Composition (160)

Prerequisites: English III (135 or 139) or AP English Literature and Composition (150)

Qualifications: Grade of A- or better from the previous school year in a standard level English course or a grade of B+ or better in an honors level English course, an excellent homework record, writing sample, an impromptu essay, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 exam fee

Description: This fourth year English course includes American and British non-fiction in a variety of genres: exposition, persuasion, narrative, etc. The object of the course is to sharpen critical, analytical, and interpretative skills through close reading. Writing projects include essays, short research papers, and impromptu writing. Students enrolled in AP Language are expected to enter the course with a strong foundation in the elements of composition. Since this is an AP course, most time will be spent working on independent analysis of texts and writing and not on reviewing the basic elements of composition. All students enrolled in this course are required to take the AP English Language and Composition exam.

Creative Writing (164)

Prerequisites: English IV (146) unless taken in conjunction with an AP English course (150 or 160)

Length: 1 semester

Credit: .5 credit

Description: This fourth year course is offered in the spring semester. Students will learn about the techniques and devices of creating short stories and poems by immersing themselves in the production of such literary forms.

Chaucer and Shakespeare (169)

Prerequisites: English IV (146) unless taken in conjunction with an AP English course (150 or 160)

Length: 1 semester

Credit: .5 credit

Description: This fourth year course is offered in the spring semester. Students will study the major works of the two most influential writers in English literary history. The course emphasizes the analysis

of Chaucer's Canterbury Tales, his poems, and eight of Shakespeare's classic plays. Three short papers and essay exams are required.

Modern American Literature (173)

Prerequisites: English IV (146) unless taken in conjunction with an AP English course (150 or 160)

Length: 1 semester

Credit: .5 credit

Description: This fourth year course is offered in the spring semester. Students will study modern American literature. The essential questions of the course are: How does modern American literature reflect modern American culture? How do you see yourself reflected in modern American literature? Students will explore these questions primarily through the composition of analytical essays and participation in discussions. Note that the definition of "literature" will be expanded to include not only traditional text, but also film, television, and song.

Mythology in Literature (175)

Prerequisites: English IV (146) unless taken in conjunction with an AP English course (150 or 160)

Length: 1 semester

Credit: .5 credit

Description: This fourth year course is offered in the spring semester. Students will study ancient Greek and Roman myths and investigate how these myths were used as a source of artistic inspiration for a variety of authors. Students will be evaluated through quizzes, tests, and essays.

Seminar in Edgar Allan Poe (179)

Prerequisites: English IV (146) unless taken in conjunction with an AP English course (150 or 160)

Length: 1 semester

Credit: .5 credit

Description: This fourth year course is offered in the spring semester. This course provides an intensive study of this mysterious and captivating author of the grotesque. Students will examine most of Poe's stories as well as his poetry. Students will be evaluated through quizzes, tests, and essays.

Baseball Literature (180)

Prerequisites: English IV (146) unless taken in conjunction with an AP English course (150 or 160)

Length: 1 semester

Credit: .5 credit

Description: This fourth year course is offered in the spring semester. Some of the best writing in America over the past century describes our national pastime. Students will examine some of the most critically acclaimed works on baseball. A deeper appreciation of both great writing and a great game will result. Students will be evaluated through quizzes, tests, and essays.

Writing for Publishing (181)

Prerequisites: English IV (146) unless taken in conjunction with an AP English course (150 or 160)

NB: Juniors working for student publications may take this course without meeting the prerequisites.

Length: 1 semester

Credit: .5 credit

Description: This fourth year course is offered in the spring semester. Students will gain a basic understanding of the media through case studies, reading, and writing activities. The course will also emphasize the publication skills of journalism: reporting, writing, and editing. Although not specifically tied to the functioning of The Eye, this class will prepare students to be editors and reporters for this and other extracurriculars.

Irish Literature (182)

Prerequisites: English IV (146) unless taken in conjunction with an AP English course (150 or 160)

Length: 1 semester

Credit: .5 credit

Description: This fourth year course is offered in the spring semester. This course examines some of the critically acclaimed works in Irish literature. Students will read Yeats, Joyce, Wilde, and Shaw, and some lesser-known, yet significant, writers. Important historical events will be identified and analyzed in order to offer increased understanding of Irish literature's evolution. Students will be evaluated through quizzes, tests, and essays.

Literary Adaptations: Cinema as Literature (183)

Prerequisites: English IV (146) unless taken in conjunction with an AP English course (150 or 160)

Length: 1 semester

Credit: .5 credit

Description: This fourth year course is offered in the spring semester. This course will explore film as works of literature. Examining feature, documentary, and experimental films, students will learn the language of cinema and how techniques of literature have been translated into visual media.

Requirements include one major paper and shorter essays, reaction journals, readings, quizzes and tests, class notes, and discussions.

Other Worlds - Study of Literature and Culture of Ireland (184)

Qualifications: Open to students registered for the Irish Studies Summer Study Abroad Program

Length: 1 semester + summer travel

Credit: .5 credit

NB: This course features a dual enrollment with Other Worlds - Study of Social Justice in Ireland (968). The credit earned from this course takes the place of a second semester English course. Students may still take a second semester English course but are not required to do so.

Description: Since 2008, Saint Ignatius and Walsh Jesuit have partnered to deliver a unique service-learning program in Belfast, Northern Ireland. The program consists of a rigorous academic curriculum of two team taught courses delivered by Saint Ignatius and Walsh Jesuit faculty coupled with lectures by Queen's University (Belfast) professors. Students complete daily reflections coupled with a meaningful cross-community service project. The program structure utilizes the Ignatian pedagogical method of context, experience, reflection, action, and evaluation. The Summer Program cultivates the understanding, knowledge, skills and attitude change that will enable participants to partake in conflict transformation and social justice initiatives at a local, national, and international level.

FINE ARTS COURSES

To meet graduation requirements, each student must earn a minimum of 1.5 credits in the Fine Arts consisting of public speaking, computers, and an elective typically taken in the freshman year. Courses in the Fine Arts department are designed to challenge students to creatively develop writing, speaking, listening, and reading skills in addition to artistic skills unique to the Fine Arts. In addition to these skills and in alignment to the mission statement of Saint Ignatius High School, Fine Arts courses will also thematically target the student's use of a diversity of media for the purposes of interpersonal communication, reflection, openness to new ideas and the formation of the student's sense of self, sense of others, and sense of the divine. The course descriptions are listed in four sub-groups: Communication Arts, Musical Arts, Theater Arts, and Visual Arts.

Communication Arts Subgroup

Rhetorical Arts (826)

Qualifications: 9th grade only except with permission from the department chair

Length: 1 semester

Credit: .5 credit

Description: This course fosters articulate expression, critical thinking, and moral reflection, enabling students to engage in written and oral public debate with persuasive force and stylistic excellence. This course emphasizes such rhetorical concepts as invention, arrangement, and claims with supporting evidence, exigency, and audience. Emerging out of Renaissance humanism, Jesuit rhetoric (or *Eloquentia Perfecta*) developed the classical ideal of the good person writing and speaking well for the public good and promotes the teaching of eloquence combined with erudition and moral discernment. Developing this tradition in light of modern composition study and communication theory, the Rhetorical Arts course complements the other foundation courses with topics such as ethics and communication, virtue and authority, or knowledge and social obligation. The Rhetorical Arts course furthers the development of essential skills in written and oral communication and information literacy, as well as providing opportunities for active engagement with essential components of the Jesuit and Saint Ignatius High School educational traditions.

Computer Concepts /Applications (205)

Prerequisites: Rhetorical Arts (826), Visuals Arts (845), Musical Arts (846), Theater Arts (841), Band (803), Freshman Chorus (812), or Strings Ensemble (821)

Length: 1 semester

Credit: .5 credit

Description: In a digital world, it is essential that individuals entering the workforce are properly skilled. This class serves not only as an introduction to a wide range of computer related skills, but also as a way for students to prove their proficiency in creating visual demonstrations, using online assessment tools, and with research opportunities. The skill set obtained as a result of the class will be invaluable to the student through his Ignatius career. This class will teach you how to use computers more efficiently and how to be technologically literate in a digital world. Computer literacy and Internet applications will be learned as well. The training modules and assignments will be constructed in the "study it, learn it, show it" approach. This approach will maximize learning retention. The course furthers the development of essential skills in written and oral communication and information literacy, as well as

providing opportunities for active engagement with essential components of the Jesuit and Saint Ignatius High School educational traditions.

Public Speaking (835)

Prerequisites: Computer Concepts/Applications (205)

Length: 1 semester

Credit: .5 credit

Description: This is a performance course designed to introduce basic principles of communication and help students become confident and competent communicators by planning and developing effective speeches that accommodate cultural diversity and target their audience. Students will be given the opportunity to present speeches in both formal platform settings and informal group interactions. Presentations will be both extemporaneous and impromptu, and class discussion and debate (policy and values) on current issues will be a significant component of the course. This is a performance course, with speeches accompanied by related writing assignments and students will evaluate classroom speeches and public discourse to enhance critical thinking and analytic skills.

Argumentation and Rhetoric (827)

Prerequisites: Computer Concepts/Applications (205)

Length: 1 semester

Credit: .5 credit

NB: For students who have taken Rhetorical Arts, this course will fulfill the public speaking graduation requirement.

Description: Creative thinking involves creating something new or original. It involves the skills of flexibility, originality, fluency, elaboration, brainstorming, modification, imagery, associative thinking, attribute listing, metaphorical thinking, and forced relationships. The aim of creative thinking is to stimulate curiosity and promote divergence, i.e. Bloom's Taxonomy. This course is designed to teach strategies for learning how to learn and for critical and creative thinking, including complex problem solving, and examines from a psychological standpoint why people think the way they do. This course helps you identify the strengths and weaknesses in your thinking, avoid common errors in thinking, and develop higher-order thinking skills for personal and professional development.

Persuasion and Propaganda (828)

Prerequisites: Computer Concepts/Applications (205)

Length: 1 semester

Credit: .5 credit

NB: For students who have taken Rhetorical Arts, this course will fulfill the public speaking graduation requirement.

Description: This course examines the history and techniques used in the creation, analysis and presentation of rhetoric. Topics of discussion include censorship, advertising, and mass media propaganda. The areas of analysis include motion pictures, political campaigns, contemporary music and popular culture. Class activities include video production, article analysis, group and individual projects, and class discussion.

Musical Arts Subgroup

Musical Arts (846)

Qualifications: 9th grade only except with permission from the department chair

Length: 1 semester

Credit: .5 credit

Description: The purpose of this class is to engage the student in the study of music, its various components and influences, composers and performers, and its use and value in people's lives, with special focus on the broad cultural impact of music in our world today. Students will be encouraged to view music in a social context rather than as an abstract concept, and will be given the tools to develop informed decisions about music.

Band (803)

Length: 2 semesters

Credit: 1 credit

Description: Band begins the year with marching band. During the marching band season, the Wildcat Marching Band travels throughout the Midwest to support the football team and performs during halftime shows as well as in parades and other special events. Symphonic band begins at the end of marching season and prepares several concerts performed in the winter and spring. In addition to class time, all band students must attend band camp at the end of July and there will also be required afternoon, evening, and weekend rehearsals and performances.

Freshman Chorus (812)

Qualification: 9th grade only

Length: 2 semesters

Credit: 1 credit

Description: Students will learn rudiments of solid vocal technique with special emphasis on the changing voice. They will grow in knowledge of reading a musical score including melody and harmony lines, learn to sing intervals, read rhythmic notation. They will develop techniques for sight singing and learn proper stage presence and deportment in choral performances. Freshmen Chorus is strongly recommended for all students seeking to participate in Chorus. Performance required.

Chorus (815)

Qualifications: 10th, 11th, and 12th grade only

Length: 2 semesters

Credit: 1 credit

Description: Emphasis is placed on the developing male voice, part-singing, vowel production and breathing techniques. Students will further their knowledge and abilities in sight-reading, harmony singing, and stage presence. Various historical periods and styles of choral music including liturgical music are explored. In addition to class time, there will also be required afternoon, evening, and weekend rehearsals and performances.

Strings Ensemble (821)

Length: 2 semesters

Credit: 1 credit

Description: The primary focus of Strings Ensemble is to master advanced playing skills and improve overall musicianship in counting, pitch recognition, scale study, sight-reading, and ensemble playing. All

students are taught and tested on fundamentals of basic music theory and performance. The experience of teamwork and learning to play in a group setting are also a continuing part of the student's education. This course culminates in a final performance at the end of each semester.

Jazz Orchestra (820)

Qualifications: Audition

Length: 2 semesters

Credit: .5 credit

Description: Jazz Orchestra performs a variety of Jazz inspired arrangements throughout the year. The Jazz Orchestra consists of 20-25 members that play various arrangements of Jazz and Swing standards. The Jazz Orchestra is selected by audition, meets regularly as a class, and is graded. This ensemble gives students the opportunity to learn different styles of music and develop improvisational and interpretational skills. The class meets after school twice per week throughout the school year.

American Popular Music (819)

Prerequisites: Computer Concepts/Applications (205)

Length: 1 semester

Credit: .5 credit

Description: The purpose of this class is to learn about the socio-cultural parameters, aesthetic perimeters, and economic principles of popular music in America from the beginning of the 20th century through today. This class looks at many different styles of music in America that developed throughout the past 100 years. This will include the development of Tin Pan Alley, Ragtime, Big Band, Rhythm and Blues, Rock and Roll, Motown, New Age, Heavy Metal, Reggae, Hip-hop, and Rap.

Music Theory (808)

Prerequisites: Computer Concepts/Applications (205)

Length: 1 semester

Credit: .5 credit

Description: This course covers the fundamental knowledge musicians need to understand music. Students learn the structures of scales, intervals and chords. Note reading and ear training skills are improved through analysis of music and student composition.

Advanced Placement Music Theory (890)

Prerequisites: Computer Concepts/Applications (205)

Qualifications: teacher recommendation and approval of department chair; 3.0 GPA or better suggested

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 test fee

Description: This full year course is an integrated approach to aural, sight singing, written, compositional and analytical skills. Students will gain speed and fluency with the rudiments and terminology of music and work on common practice techniques such as part writing, tonality, harmony, modulation, phrase structure and formal analysis. All students enrolled in this course are required to take the corresponding AP exam.

Theater Arts Subgroup

Theater Arts (841)

Length: 1 semester

Credit: .5 credit

Description: No prior experience with theater is necessary for this course. Students will participate in theater games, improvisation, and acting from scripts and monologues. They will also study the history of theater, and report on plays seen in performance and plays read. The rich theater history of Cleveland will be explored. The course will also introduce technical theater and students will learn some basics of construction and model making.

Advanced Theater Arts (847)

Prerequisites: Theater Arts (841) or with permission from the department chair

Length: 1 semester

Credit: .5 credit

Description: This class will expand the student's ability to perform. Introductory activities will include theater games, improvisation, and writing for actors. The essence of the course will be student prepared monologues, duo scenes, and group projects. Students will perform excerpts from works of world drama with an emphasis on contemporary theater. Students will analyze the work of professional actors and of each other. Styles of acting will be explored. Students will be expected to see plays in performance outside of class.

Visual Arts Subgroup

Visual Arts (845)

Qualifications: 9th grade only

Length: 1 semester

Credit: .5 credit

Description: Visual Arts is an introductory studio art course in which students experiment with a variety of art media before progressing into medium-specific coursework. It is designed to elevate artistic awareness through the exploration of fundamental practices and techniques within two and three-dimensional art media (drawing, painting, clay, sculpture, mixed media, and graphic design.) Students engage in a variety of visual arts experiences that involve a sampling of art production, criticism, and appreciation. It is designed to be experimental, enlightening, and enjoyable.

Graphic Design (814)

Prerequisites: Visual Arts (845) and Computer Concepts/Applications (205) or with permission from the department chair

Length: 1 semester

Credit: .5 credit

Description: This is an introductory course to computer generated design. Students will explore the potential of technical design, 2-D/3-D production, multimedia creation, animation, and Web applications. Instruction is cross-platform Macintosh/PC. The course is project oriented with some objective testing, written and oral reports. Projects include production design, corporate identification (logos) and artistic expression.

Graphic Design II (813)

Prerequisites: Graphic Design (814) or with permission from the department chair

Length: 1 semester

Credit: .5 credit

Description: This course will study complex design principles in more detail. An in depth study will challenge students to produce computer aided designs in conjunction with tactile hand produced works. A series of principle works, object studies, drawings, computer designs, illustrations, and independent study works will show significant development in the area of graphic design. Students will be challenged to re-study the creative process. A new series of works will center on singular, specific design elements. Each student will need to produce a wide variety of works geared toward a final portfolio.

Three-Dimensional Art (842)

Prerequisites: Visual Arts (845) and Computer Concepts/Applications (205) or with permission of the department chair

Length: 1 semester

Credit: .5 credit

Description: The 3D Art class gives the student an opportunity to work in a variety of three dimensional art media. There is an emphasis on learning the principles and elements of three-dimensional design. Students will develop creative and critical thinking skills as they create works of art in response to their environment. The class begins with a series of drawing exercises that teach the principles and elements of design. However, the emphasis of the class is on creating three-dimensional projects. The different media include wire, clay, wood, found objects and altered books.

Clay and Sculpture (849)

Prerequisites: Three-Dimensional Studio Art (842) or with permission of the department chair

Length: 1 semester

Credit: .5 credit

Description: Students in Clay and Sculpture class learn and practice the principles and elements of three-dimensional design. Students will strengthen their knowledge of methods and properties unique to working in clay, designing both functional and sculptural pieces. They will have an opportunity to work on the wheel. Sculpture in materials other than clay will be explored. There is an emphasis on developing creative and critical thinking by the students. Current periodicals on ceramics and sculpture are used as reference material. Possible projects may include clay sculpture, clay tiles, functional ceramics, outdoor installations, kinetic sculpture and raku firing. Field trips to current exhibits or studios may be fit into the semester if possible.

Drawing (848)

Prerequisites: Visual Arts (845) and Computer Concepts/Applications (205) or with permission from the department chair

Length: 1 semester

Credit: .5 credit

Description: The student learns the importance of composition and use of primary media (pencil, charcoal, pen and ink) and the elements of drawing (line, shape, perspective shading, etc.) through a

variety of exercises and projects. The student works from still life and imagination. Artworks are displayed and critiqued. No prior experience is necessary.

Advanced Drawing and Painting (852)

Prerequisites: Drawing (848) or with permission of the department chair

Length: 1 semester

Credit: .5 credit

Description: Students in this course will experiment with types of texture, complex color design, 3-D space effects, and ideas through images both realistically and abstractly. Each student will develop his own unique style and explore it through acrylics, paint, lead, colored pencils, pastels, watercolors, and mixed media. Students will learn various techniques of painting, e.g. staining, dappling, palette knife, scumbling (dry brush).

Web Design (858)

Prerequisites: Computer Concepts/Applications (205)

Length: 1 semester

Credit: .5 credit

Description: This course enhances the individual student's understanding of the principles of design through electronic media. To allow each artist to become more than just a technician, students are taught to use the Web as a creative medium. To allow the individual to discover how principles of design are applied through each work of art, we will explore and examine principles of design as applied through electronic media, specifically the World Wide Web. Class procedures will include lectures, group discussions of existing site designs and techniques, Internet research, and individual/group critiques.

Digital Film Production (867)

Prerequisites: Computer Concepts/Applications (205)

Length: 1 semester

Credit: .5 credit

Description: This is a hands-on laboratory class for novice and experienced filmmakers. The class introduces students to framing composition and shooting techniques through the practical application of shot lists, current digital technology, and professional editing software. Time permitting, students organize, shoot, and edit five short film projects.

Digital Animation Production (868)

Prerequisites: Visual Arts (845) and Computer Concepts/Applications (205) or with permission from the department chair

Length: 1 semester

Credit: .5 credit

Description: This semester course introduces the student to the principles of two-dimensional digital animation. Each student is assigned his own personal computer workstation to complete a series of exercises that incorporate principles of physics, anatomy, and acting to animate 2D characters. The students begin their work by animating simple objects and eventually work on complete character rigs while gaining proficiency in the use of professional animating software.

Digital Photography (871)

Prerequisites: Computer Concepts/Applications (205)

Length: 1 semester

Credit: .5 credit

Description: This course will explore the use of film as a studio experience. The use and techniques of traditional photography will be taught, but the application of photographic principles will be manifest through digital media. Students will take part in photographic essays, photo journaling, and related studio principles.

Computer Animated Design (874)

Prerequisites: Computer Concepts/Applications (205)

Length: 1 semester

Credit: .5 credit

Description: This course teaches the fundamentals of computer animated design, modeling, graphic design, and 3D printing using AutoCAD, and leading design software. Whether it's an architectural drawing, a 3D mechanical drawing, an artistic rendering, or even a Geographic Information System (GIS) system, the student will be able to control the image precisely and utilize it to make drawings from scratch, edit existing CAD models and print out quality drawings and 3-dimensional models for any discipline.

Advanced Placement Studio Arts (880)

Prerequisites: any two courses from the visual arts subgroup or instructor permission

Qualifications: teacher recommendation and approval of department chair; 3.0 GPA or better suggested

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: This course is designed for highly motivated students who are seriously interested in the study and production of art. This course requires more commitment and accomplishment than typical high school courses. All students enrolled in this course must produce a high quality portfolio to submit for College Board evaluation.

HEALTH/PHYSICAL EDUCATION COURSES

To meet graduation requirements, each student must earn 1 credit in Health and Physical Education courses consisting of two semesters of Physical Education and one semester of Health. Through our physical education curriculum, we teach teamwork and good sportsmanship in addition to the importance of physical fitness. Our health classes ensure that students understand the value of good emotional, physical and mental health. Highlights include: students learning proper first-aid treatment and CPR training.

Physical Education I (615)

Length: 1 semester

Credit: .25 credit

Description: The primary goal of this course is to build a foundation for lifelong fitness. Students will accomplish this by participating in (but not limited to) the following activities: fitness training and testing, soccer, floor hockey, team handball, basketball, strength and conditioning training, and polar heart rate activities. While building upon the current skills they bring to each activity students will learn rules of each activity along with developing sportsmanship with their classmates. Students meet daily for one semester.

Physical Education II (627)

Prerequisites: Physical Education I (615)

Length: 1 semester

Credit: .25 credit

Description: In this course, team and individual sports are emphasized. There is emphasis put on the strategies of each activity or sport. Variations of competitive situations are used – modification of rules to evolve a different game from the same basic skills. Imagination and creativity are encouraged on the student's part to modify or adapt the skills and strategies learned in a game he enjoys. Activities covered (but not limited to) are: fitness testing, softball, flag football, volleyball, team handball, speedball, golf, and cardiovascular fitness/strength training. Students meet daily for one semester.

Health (635)

Prerequisites: Physical Education II (627)

Length: 1 semester

Credit: .5 credit

Description: This course is divided into two areas: first aid and human sexuality. After completing this course, students will be able to effectively deal with any emergency situation described in the Red Cross First Aid Handbook. Practical application, in conjunction with recognition of signs and symptoms, will be emphasized. Certification for first aid skills and CPR skills are possible for each student to achieve in this course. The approach to sexuality in this class is more than the mere teaching of anatomy. Upon learning that sexuality involves thoughts, feelings, and attitudes about one's self, and that one's actions involve and affect others, students will be able to make mature decisions in regard to their own sexuality. Areas covered in this course include male and female roles, the reproductive systems, menstruation, pregnancy and birth, birth defects, birth control, and sexually transmitted diseases.

HISTORY COURSES

To meet graduation requirements, each student must earn 3 credits of history courses. World History (1 credit) and United States History (1 credit) are required courses. The final required credit is met by taking any of the electives offered by the department but must include at least a .5 credit of civics (e.g., US Government; Civil Rights and Liberties, or AP US Government). The History Department offers a rich and challenging curriculum that stresses critical thinking, research skills, and the communication of ideas through both traditional writing assessments and digital media. In addition to our standard college preparatory track, students at Saint Ignatius also have the opportunity to earn college credit through the Advanced Placement program in history and social science courses in each of their four years.

Through their history classes, Saint Ignatius students are challenged to learn the lessons of the past and apply that knowledge to contemporary issues. It is the aim of the department to help students develop their writing, research, reading, and listening skills, as well as to provide a curriculum that stresses critical thinking, including effectively evaluating the reliability of research material. Finally, the department is engaged in helping the students to embody the profile of the Jesuit "Graduate at Graduation" - becoming open to growth, intellectually competent, religious, loving, and committed to doing justice.

World History (315)

Length: 2 semesters

Credit: 1 credit

Description: This is a survey of the major cultures which have developed in Africa, Asia, Europe, and the Americas since the dawn of civilization. Students are presented with a series of lectures, audio-visual supplements, and readings to acquaint them with the men and women who have been the moving forces behind the major events in history. They are encouraged to look for relationships among historical events, to explore the flow of the past into the present, and to employ the past in suggesting the course of the future.

Honors World History (319)

Qualifications: Entrance exam score of 90th percentile or higher, grade school grades of A- or better, and recommendation of grade school teachers for advanced coursework

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Fees: \$93 testing fee (optional)

Description: This course imparts the knowledge expected of the students in the standard World History class with more breadth and depth. Students are expected to make strong connections between the events of the past and the historical trends of today. An understanding of the information at several different levels is expected. Students will also be charged with projects and papers that expand their learning into activities that prepare them for the future. Students will be prepared for and encouraged to take the AP World History exam.

United States History (325)

Prerequisites: World History (315 or 319)

Length: 2 semesters

Credit: 1 credit

Description: U.S. History is a full-year survey of the major developments in the history of the United States from the Revolution to the 21st century. In this course students will examine the events, ideas, and individuals that have shaped the American experience, with special emphasis on the political and ideological foundations of our nation, and the challenges that have shaped it from the Civil War to the present. In addition to deepening their knowledge of United States history, students will develop and strengthen historical thinking skills such as sourcing, contextualization, corroboration, and critical reading.

Advanced Placement United States History (330)

Prerequisites: World History (315 or 319)

Qualifications: A- or better in World History, a cumulative GPA of 3.3 or better, and recommendation from the World History instructor

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: The AP U.S. History course focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) that students explore throughout the course in order to make connections among historical developments in different times and places. Students will be prepared for and required to take the AP U.S. History exam.

Advanced Placement European History (340)

Prerequisites: United States History (325 or 330)

Qualifications: a minimum cumulative GPA of 3.0 or better is recommended

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: The AP European History course focuses on developing students' understanding of European history from approximately 1450 to the present. The course has students investigate the content of European history for significant events, individuals, developments, and processes in four historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides five themes (interaction of Europe and the world, poverty and prosperity, objective knowledge and subjective visions, states and other institutions of power, and individual and society) that students explore throughout the course in order to make connections among historical developments in different times and places. Students will be prepared for and required to take the AP European History exam.

Entrepreneur Studies (341)

Prerequisites: United States History (325 or 330)

Length: 1 semester

Credit: .5 credit

Description: Entrepreneur Studies examines how entrepreneurship plays a crucial role in the health of our overall economy. The focus will be on innovation, vision, venture capitalism, capital formation, business growth, and hard work. At the end of the semester, a student will be well versed in business terminology, appreciate entrepreneurial creativity, recognize their hard work, and describe how new

businesses positively impact our society. This course fulfills the personal finance graduation requirement.

United States Government (345)

Prerequisites: United States History (325 or 330)

NB: students who have taken or are currently enrolled in AP Government (350) cannot take this course.

Length: 1 semester

Credit: .5 credit

Description: U.S. Government is a semester-long elective course that will give students a thorough understanding of structure and powers of national, state, and local government in the United States. Major emphasis is placed upon the separation of powers, comparisons with other forms of government, and the role of the Congress and the Presidency. Special attention is given to individual freedoms and responsibilities as guaranteed by the Bill of Rights, focusing on the manner in which the Supreme Court has interpreted them in over 200 years of decisions.

Advanced Placement Government (350)

Prerequisites: United States History (325 or 330)

Qualifications: cumulative 3.5 GPA and an A- or higher average in previous history courses

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: AP Government will give students an analytical perspective on government and politics in the United States. This two-semester course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students successfully completing this course will be able to describe and compare important facts, concepts, and theories pertaining to U.S. government and politics; explain typical patterns of political processes and behavior and their consequences (including the components of political behavior, the principles used to explain or justify various government structures and procedures, and the political effects of these structures and procedures); interpret basic data relevant to U.S. government and politics (including data presented in charts, tables, and other formats); and critically analyze relevant theories and concepts, apply them appropriately, and develop their connections across the curriculum. Students will be prepared for and required to take the AP US Government and Politics exam.

Economics (346)

Prerequisites: United States History (325 or 330)

Qualifications: None

NB: students who have taken or are currently enrolled in AP Economics (370) cannot take this course.

Length: 1 semester

Credit: .5 credit

Description: Economics is a semester-long elective course that endeavors to give the learner a view of the world that recognizes the importance of our economy. The student will be able to describe the basic components of our economy and explain why it is vital to the health of our society overall. The course itself is divided into six basic units: Basic Market Supply and Demand, Business and Labor,

Money and Banking, Fiscal Policy, Personal Finance, and Ethics and the Global Economy. This course fulfills the personal finance graduation requirement.

Advanced Placement Economics (370)

Prerequisites: United States History (325 or 330)

Qualifications: 3.7 cumulative GPA

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$186 testing fee

Description: AP Economics prepares students for both the AP Microeconomics and the AP Macroeconomics exams which students are required to take. The first semester will delve into topics that include the behavior of markets and individuals within them. Students will gain a deep understanding on how governments impact market efficiency. In the second semester, studies will emphasize the broader interaction of markets on national and global scales. Particular attention is given to national income, productivity, and economic performance in the international arena. This course is college-level and very challenging. It is recommended for students who possess a keen interest in economics and business. This course fulfills the personal finance graduation requirement.

Contemporary World Studies (347)

Prerequisites: United States History (325 or 330)

Length: 1 semester

Credit: .5 credit

Description: Contemporary World Studies is a semester-long elective with a primary focus on non-Western history and cultures since 1945. Areas of focus will include Latin America, South Asia, the Middle East, Africa, and the Pacific Rim. Some research will be required, and current events will often drive class activity. Issues like terrorism, globalization, emerging markets, and modern era conflicts will be discussed. Students will also work to strengthen their skills in geography and comparative politics.

Psychology (348)

Prerequisites: United States History (325 or 330)

Length: 1 semester

Credit: .5 credit

Description: This course is an introduction to psychology, the scientific study of behavior and mental processes. It provides students with an introduction to the major areas of psychological inquiry: theories of personality and social development; how the brain, neurons, and hormones impact psychological functioning, sensation and perception; the ways in which humans reason and think (and why we get so many things wrong!); the puzzles and paradoxes of memory; the principles of learning and the impact of social and cultural contexts on behavior; major psychological and emotional disorders, and their treatment; and the fundamental motives that drive people to behave the way they do.

Cleveland History (349)

Prerequisites: United States History (325 or 330)

Length: 1 semester

Credit: .5 credit

Description: The Cleaveland History class (and yes, it's supposed to be spelled that way) is a semester-long elective course. The focus of the course is the history of the city of Cleveland, from its founding, growth, era of greatness, period of decline, to the present day. Special emphasis will be placed on examining cultural, economic, political, and social issues. Once given the history of the city, students will then explore modern problems that the city faces.

LANGUAGES COURSES

To meet graduation requirements, each student must earn three credits in foreign language courses. This credit must be earned through consecutive years of study in the same language. However, four years of French, Latin, Spanish and Mandarin Chinese are offered and a fourth year of language study is highly recommended. Students can elect to take a second language as a junior or senior from any of the previously mentioned languages and in ancient Greek, as well. Assignments for the courses and allocation of class time will be aimed at developing the student's aptitude in reading, writing, listening, and speaking in the target language. The study of the language and culture of other peoples will provide the student with the opportunity to see the world through different eyes, thus making him open to growth in his understanding of others and of new situations. The study of language is intellectually challenging and requires a high level of analytical skill which will develop the student's knowledge, intellectual acuity, self-discipline, and understanding of the world around him. Students are also encouraged to pursue travel opportunities offered by the school to enjoy language and culture beyond what they learn in the classroom.

French I (755)

Length: 2 semesters

Credit: 1 credit

Description: The student is introduced to Francophone cultures and will learn to perform basic linguistic functions in all four modes: speaking, listening, reading and writing but with an emphasis on speaking and listening. Some of the functions include greeting, thanking and taking leave of someone; making introductions, invitations, complaints, excuses and predictions; asking for, giving and restating information; agreeing, disagreeing, negotiating and insisting; expressing opinions, need, emotions, and intentions; ordering food and beverages, asking for prices, time and permission; describing daily routines, physical and character traits and family members; identifying nationalities and professions; and purchasing items.

Honors French I (759)

Qualifications: previous experience in French and placement test

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: The student is introduced to Francophone cultures and will learn to perform basic linguistic functions in all four modes: speaking, listening, reading and writing but with an emphasis on speaking and listening. Some of the functions include greeting, thanking and taking leave of someone; making

introductions, invitations, complaints, excuses and predictions; asking for, giving and restating information; agreeing, disagreeing, negotiating and insisting; expressing opinions, need, emotions, and intentions; ordering food and beverages, asking for prices, time and permission; describing daily routines, physical and character traits and family members; identifying nationalities and professions; and purchasing items.

French II (765)

Prerequisites: French I (755) or previous experience in French and placement test

Length: 2 semesters

Credit: 1 credit

Description: The student will learn to perform intermediate linguistic functions in all four modes: speaking, listening, reading and writing. Some of the functions include writing invitations, postcards and letters, giving information, opinions, orders and directions, describing character, physical traits, past events, daily routines, talents and abilities, and intentions, making suggestions and predictions, comparing, reporting, hypothesizing and sequencing events.

Honors French II (769)

Prerequisites: French I (755 or 759)

Qualifications: A grade of A- or better from the previous school year in a standard level French course or a grade of B+ or better in an honors level French course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: The student will learn to perform intermediate linguistic functions in all four modes: speaking, listening, reading and writing. Some of the functions include writing invitations, postcards and letters, giving information, opinions, orders and directions, describing character, physical traits, past events, daily routines, talents and abilities, and intentions, making suggestions and predictions, comparing, reporting, hypothesizing and sequencing events. In addition to the regular French II curriculum, honors students will read, discuss and write about additional varied passages, select extra projects of interest, give oral exposés and in general treat topics in greater depth.

French III (775)

Prerequisites: French II (765 or 769) or previous experience in French and placement test

Length: 2 semesters

Credit: 1 credit

Description: Emphasis is continued on speaking French with a greater focus on reading and writing skills. Advanced grammar and the practice of these skills are organized around ten cultural themes: school and pastimes, relationships, the arts, careers and work, travel, technology and the environment, French culture, French history, French-speaking Africa, and health.

Honors French III (779)

Prerequisites: French II (765 or 769) or previous experience in French and placement test

Qualifications: A grade of A- or better from the previous school year in a standard level French course or a grade of B+ or better in an honors level French course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: Emphasis is continued on speaking French with a greater focus on reading and writing skills. Advanced grammar and the practice of these skills are organized around ten cultural themes: school, work, storytelling and legends, friendship, nature, the press, the environment, government, the arts, and travel. The students will also be introduced to the basic concepts and terminology of textual analysis to develop the ability to read and analyze critically and to discuss perceptively representative works of Francophone literature.

French IV (785)

Prerequisite: French III (775 or 779) or previous experience in French and placement test

Length: 2 semesters

Credit: 1 credit

Description: This course is a set of four one-quarter courses:

1. Conversation and composition: a review of grammar and major cultural themes with guided practice in techniques for writing and speaking with a special focus on descriptions and circumlocution.
2. History of France: Prehistoric times, Antiquity, the Middle Ages, the Ancien Regime, and the 19th-20th centuries.
3. Literature: a collection of representative short stories, plays, and poems from the 19th and 20th centuries.
4. Culture: an examination of how many French institutions (the State, school system, economy, art, language) have served to unify many diverse peoples and create a French identity. Writing and speaking with a review of grammar, and fluent conversational ability. Work is done on phonetics.

Honors French IV (791)

Prerequisites: French III (775 or 779) or previous experience in French and placement test

Qualifications: A grade of A- or better from the previous school year in a standard level French course or a grade of B+ or better in an honors level French course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is designed to introduce students who have advanced language skills to the formal study of a representative body of literary texts in French. Classes will include close reading and extensive discussion of texts with particular attention to character and theme, structure and style, and to how these elements are related to overall interpretation. To reach these goals, students will learn the techniques of literary analysis as well as a basic vocabulary of critical terms, both of which they need to use appropriately when studying French literary texts. By learning to identify and interpret the various elements that enter into the composition of a literary text and to perceive their relationships,

students acquire a fuller understanding and appreciation of the art and significance of literature. Class discussion and essay writing in French are important components of this course.

Advanced Placement French Language (789)

Prerequisites: French III (775 or 779) or higher

Qualifications: A grade of A- or better from the previous school year in a standard level French course or a grade of B+ or better in an honors level French course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: Students that enroll in AP French IV Language should already have a good command of French grammar and vocabulary and have competence in listening, reading, speaking and writing. The course emphasizes the use of language for active communication and helps students develop the ability to understand spoken French in various contexts; a French vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary; and the ability to express themselves coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken French. Course content reflects intellectual interests shared by the students and teacher (the arts, current events, literature, sports, etc.) Extensive training in the organization and writing of compositions is emphasized. All students enrolled in this course are required to take the corresponding AP exam; testing fees apply.

Honors Greek I (459)

Qualifications: 11th or 12th grade only and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course provides an introduction to the Greek language of Homer's Iliad and Odyssey through learning the Greek alphabet, basic grammar, and important vocabulary. In the second half of the course, students read passages from Homer's Odyssey, one of the greatest adventure stories in Western literature. Students also investigate, on the basis of personal interest, various aspects of Greek life and culture.

Honors Greek II (469)

Prerequisites: Honors Greek I (459)

Qualifications: Teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is a continuation of Greek I, in which further selections from Homer's Odyssey and Iliad are read in the original Greek. Further investigation into various aspects of Greek society and its influence on the modern world is conducted, including such topics as Greek athletics, mythology, philosophy, law enforcement, history, etc.

Honors Greek III (479)

Prerequisites: Honors Greek II (469)

Qualifications: Teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: Greek III deals with the transition from the Greek of Homer to that of Plato, Herodotus and the New Testament. Cultural and historical investigations of Greek life are an integral part of this course, including, for example, the battle of Thermopylae, the Persian invasions, philosophy in Athens, the trial of Socrates, and other topics as well.

Latin I (415)

Length: 2 semesters

Credit: 1 credit

Description: Latin I is the first course of a three-year requirement in foreign language. The first-year course includes cultural material about Roman life, government, education, literature, and art – all of which influenced later civilizations. The principal emphasis is on the Latin language itself and its influence on the English language as well as on the Romance languages.

Honors Latin I (419)

Qualifications: Previous experience in Latin

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: Honors Latin I is the first course of a three-year requirement in foreign language. The first-year course includes cultural material about Roman life, government, education, literature, and art – all of which influenced later civilizations. The principal emphasis is on the Latin language itself and its influence on the English language as well as on the Romance languages. Honors Latin I assumes the mastery of the 1st and 2nd Declension nouns and adjectives (including ER adjectives) and the formation/translation of the present, imperfect, and future tenses of 1st conjugation verbs. For those interested in testing into Honors Latin I, a list of vocabulary, grammar and skills is available on the Languages website.

Latin II (425)

Prerequisites: Latin I (415 or 419)

Length: 2 semesters

Credit: 1 credit

Description: Latin II includes a review of material learned in Latin I along with an inclusion of more grammar and syntax. The course is divided into three parts. The first reviews grammar and syntax learned in Latin I; the second part covers further grammar and vocabulary; the third, and most integral part of the course, promotes the translation of Latin to English with special emphasis on Latin constructions, using adapted Latin texts.

Honors Latin II (429)

Prerequisites: Latin I (415 or 419)

Qualifications: A grade of A- or better from the previous school year in a standard level Latin course or a grade of B+ or better in an honors level Latin course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course consists of a thorough review of grammar along with the introduction of the subjunctive mood and all of its clauses. Students will then move into translation with a heavy emphasis on grammar and syntax. Students will read the Hercules stories, Jason and the Argonauts, and portions of Caesar's Commentaries on the Gallic Wars, Books 1 and 7. Individualized projects will incorporate other aspects of Roman culture into the course.

Latin III (435)

Prerequisites: Latin II (425 or 429)

Length: 2 semesters

Credit: 1 credit

Description: Latin III students continue their immersion into translation of the Latin language by translating the adapted stories in Fabulae Romanae, stories of the foundation and early history of Rome from the famous historian Livy. Students will continue to build mastery of vocabulary, grammar and syntax through translation. Student projects will further students' understanding of Roman culture, civilization and history.

Honors Latin III (439)

Prerequisites: Latin II (425 or 429)

Qualifications: A grade of A- or better from the previous school year in a standard level Latin course or a grade of B+ or better in an honors level Latin course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course offers the student the challenge of learning with other top students in his field and provides him with the opportunity to improve his English language skills, especially grammar and vocabulary. The course covers material in an extensive and in-depth-manner. Authors to be studied include Cicero, Sallust, Pliny, and Ovid. In addition, students investigate various aspects of Roman life and society, including Roman sports, mythology, law, history, military tactics, etc.

Latin IV (445)

Prerequisites: Latin III (435)

Length: 2 semesters

Credit: 1 credit

Description: Latin IV students will primarily translate the adapted stories contained in the book Fabulae Graecae. These stories mainly deal with the mythological stories that were so important to the Greeks and Romans. Students will continue to master vocabulary, grammar and syntax through the translation of these stories. Student projects will assist in the learning of Roman culture, civilization and history.

Honors Latin IV (449)

Prerequisites: Latin III (435 or 439)

Qualifications: A grade of A- or better from the previous school year in a standard level Latin course or a grade of B+ or better in an honors level Latin course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is designed to cover material in an extensive and in-depth manner. The course follows the syllabus of poems for the former AP Latin Lyric Poetry Exam, though the AP Exam itself is no longer administered. Lyric Poetry comes in a wide variety of styles and deals with many different topics. However, lyric poets, such as Catullus and Horace, discuss their feelings, loves, hates, and personal philosophies. The Latin lyric poets – Catullus and Horace – were the ancient songwriters of their times – the reason that even today the words of songs are called “lyric.” This course allows the students to read selections from different Roman poets, such as Catullus and Horace.

Advanced Placement Latin (440)

Prerequisites: Honors Latin III (439)

Qualifications: Grade of B+ or better in Honors Latin III, excellent homework record for three previous years and teacher recommendation.

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: This course is designed to cover material in an extensive and in-depth manner in order to prepare the student for possible college credit via the national Advanced Placement Latin Exam. Students read two works of Roman literature: Julius Caesar's Commentaries on the Gallic War, and Publius Vergil's Aeneid. All students enrolled in this course are required to take the corresponding AP exam; testing fees apply.

Etymology (446)

Qualifications: 11th or 12th grade

Length: 1 semester

Credit: .5 credit

Description: The Etymology course deals with the study of word origins. The student examines how words are made from Latin and Greek. The objective of this course is to improve the student's working English vocabulary (this course is an excellent preparation for standardized tests like the SAT). The course will also cover terminology used in the legal and medical fields.

Mythology (447)

Qualifications: 11th or 12th grade only

Length: 1 semester

Credit: .5 credit

Description: This course examines stories and myths from ancient Greece and Rome based on classical texts. The Greek myths will be drawn from Homer (Iliad/Odyssey), Hesiod (Theogony), and the tragedians (Euripides, Sophocles, Aeschylus). Vergil's Aeneid and Ovid's Metamorphoses will

provide the basis for the Roman myths. Other Greek and Roman authors will be referenced throughout the course.

Mandarin I (795)

Length: 2 semesters

Credit: 1 credit

Description: Students are introduced to Mandarin Chinese language and culture and will learn to perform basic linguistic functions in all four modes: speaking, listening, reading and writing, with an emphasis on speaking and listening. Besides learning the basic rules of Chinese character writing and Chinese phonetic forming, students focus on communicative skills in everyday conversation. Some of the functions include making a self-introduction as well as introductions of others; describing daily routines, physical and character traits and family members; expressing emotions, opinions, likes and dislikes of food and drink, colors, clothing, and sports.

Mandarin II (796)

Prerequisite: Mandarin I (795) or previous experience with Chinese and placement test

Length: 2 semesters

Credit: 1 credit

Description: Students will continue to learn about Chinese language and cultures and will learn to perform intermediate linguistic functions in all four modes: speaking, listening, reading and writing. Students will continue to apply the knowledge of Chinese phonetics and Chinese character writing system into real problem solving, such as learning Chinese character input system in computers and other electronic devices. Some of the linguistic functions include locating objects, identifying professions, making phone calls, giving and receiving invitations, ordering food, talking about Chinese holidays and different seasons, purchasing items and talking about hobbies.

Mandarin III (797)

Prerequisite: Mandarin II (796) or previous experience with Chinese and placement test

Length: 2 semesters

Credit: 1 credit

Description: Emphasis is continued on speaking Chinese with a greater focus on reading and writing skills. Advanced grammar and the practice of these skills will be designed in different contextual settings with different cultural themes. This course will continue to use the communicative interactive approach. Students will be able to:

1. Participate in complex conversations.
2. Understand and relate instructions, directions, and commands on familiar subjects.
3. Read and comprehend authentic and historical features of Chinese cultures.
4. Read and comprehend authentic texts.

Mandarin IV (798)

Prerequisites: Mandarin III (797) or previous experience with Chinese and placement test

Length: 2 semesters

Credit: 1 credit

Description: Students will learn to communicate more effectively in real life situations using authentic materials such as newspaper and magazine articles, websites, films, music, and Chinese literature.

Students will explore significant events, people, and themes of Chinese history. They will learn about contemporary Chinese society and culture by examining Chinese cultural products, practices and perspectives. Students will be able to:

1. present the ethnic and regional diversity and the values behind the practices;
2. compare and contrast American culture and Chinese culture;
3. express themselves on topics such as travel and migration, holidays and food, and current affairs.

Spanish I (715)

Length: 2 semesters

Credit: 1 credit

Description: This course is proficiency-oriented. It is based on an integrative approach of the four skills of listening, speaking, reading and writing within a cultural context which is designed to allow for a maximum amount of interaction among students, and between students and the teacher. The students will have many opportunities to practice Spanish in real life situations. Methods include: drills, cooperative learning activities, writing, listening and speaking, and computer designed practice.

Spanish II (725)

Prerequisites: Spanish I (715) or by placement test

Length: 2 semesters

Credit: 1 credit

Description: This course builds on previously learned material by recombining vocabulary, grammar and syntax into new and creative mode of expression. The students learn to function as accurately as possible in situations they are most likely to encounter with Spanish speakers. In proficiency-oriented, integrative approach, the four skills and culture reinforce one another in an ever-widening spiral.

Honors Spanish II (729)

Prerequisites: Spanish I (715 or 719) or by placement test

Qualifications: A grade of A- or better from the previous school year in a standard level Spanish course or a grade of B+ or better in an honors level Spanish course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course provides the opportunity for students who are highly proficient in Spanish I skills to be grouped homogeneously. The course work is similar to Spanish II, but more time is utilized in conversation and student interaction. Hispanic culture and influences will be emphasized through projects and essays. A more in-depth approach of content and culture will be taken in regard to the performance objectives of Spanish II.

Spanish III (735)

Prerequisites: Spanish II (725 or 729) or by placement test

Length: 2 semesters

Credit: 1 credit

Description: This course will review and present new grammar elements in a contextual inter-related setting. This course will continue to use the communicative interactive approach. Receptive skills received additional emphasis and culture becomes the centerpiece of instruction.

The student will be able to:

1. Understand, speak, and write Spanish in sentence-length utterances consisting of learned material.
2. Participate in complex conversations that have more than one idea or concept.
3. Understand and relate instructions, directions, and commands on familiar subjects.
4. Read and comprehend authentic and historical features of Spain, Mexico, and Latin America.
5. Read and comprehend authentic text.
6. Be exposed to and develop an appreciation of the Hispanic world.

Honors Spanish III (739)

Prerequisites: Spanish II (725 or 729) or by placement test

Qualifications: A grade of A- or better from the previous school year in a standard level Spanish course or a grade of B+ or better in an honors level Spanish course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is designed to help students achieve the intermediate level of proficiency in the four skills: reading, writing, listening, and speaking within a cultural context. Selection of the students for this course is based on a strong recommendation by their Spanish teachers. The course goes beyond the performance objectives outlined in the Rubrics of Spanish III in terms of the depth and the extent of the content. For example, the students must complete summer reading assignments; give an extensive report on Hispanic culture, and meet the performance objectives based on the functions listed in the textbook *Somos Asi, Ya!* (chapters 1 through 10).

Spanish IV (745)

Prerequisites: Spanish III (735 or 739) or by placement test

Length: 2 semesters

Credit: 1 credit

Description: This course is to help students to develop practical communicative skills in Spanish and familiarize them with Hispanic culture through authentic literary reading and relevant contemporary sociocultural information. Grammar will be fully integrated within a cultural context and presented both as a review and as an introduction to the more advanced structures of the language.

The student will be able to:

1. Reinforce and further his knowledge of other disciplines through the study of Spanish.
2. Demonstrate understanding of his own culture through comparisons of cultures and their own.
3. Understand and interpret written and spoken language on a variety of topics.
4. Present information, concepts, and ideas in written and spoken form.

Advanced Placement Spanish Language (750)

Prerequisites: Honors Spanish III (739)

Qualifications: Minimum 3.0 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: This course provides students with the opportunity to pursue college-level work and receive college credit. Students will be exposed to a large variety of materials and genres that will help them expand their knowledge of formal and informal Spanish, both in oral and written form. The course will include a structured review of grammar with emphasis on finer points of distinction; creative listening, speaking and writing practice, and a variety of readings of literary and cultural significance.

The student will be able to:

1. Understand spoken Spanish in a variety of informal and formal contexts.
2. Understand both direct and inferred meaning from a variety of media: newspaper and magazine articles, letters, instructions, short stories, poetry, and short plays.

Perform both in speaking and in writing, formal and informal functions, such as give instructions, request information, narrate, argue, convince, apologize and describe. Students will be prepared for and required to take the AP Spanish Language exam.

MATHEMATICS COURSES

To meet graduation requirements, each student must earn 4 credits in mathematics courses, including Algebra II or equivalent. It is strongly recommended by the department and college counseling to finish the 4 year requirement on the calculus track, finishing with Pre-Calculus, AP Calculus, or Multivariable Calculus. Students are able to supplement the core courses with electives in AP Statistics and computer science. Placement in honors or AP level courses must be accompanied by the recommendation of the previous year's teacher and the department chair.

Fundamentals of Algebra (211)

Qualifications: Recommendation of summer school teacher or department chair

Length: 2 semesters

Credit: 1 credit

Description: The Fundamentals course addresses the needs of a small number of incoming freshmen who are not yet ready for Algebra I. The first semester is spent reviewing and strengthening the basic concepts of arithmetic, fractions, percents, data, and graphs. The second semester begins the study of Algebra I and covers the topics that are covered in the first semester of Algebra I. The class size is small to allow for greater individual interaction between student and teacher.

Algebra I (215)

Length: 2 semesters

Credit: 1 credit

Description: Algebra I requires the students to apply their previously acquired knowledge of arithmetic in a general fashion through the use of variables. Problem solving skills are emphasized throughout the year. Some topics not traditionally found in algebra are also included. These include basic statistics and probability, linear regression, and data graphs. The graphing technology, including the calculator, is used throughout the course to reinforce and expand on the topics covered.

Honors Algebra I (219)

Qualifications: Placement test

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: Honors Algebra I covers all the material that is done in Algebra I in greater depth. Critical thinking skills are exercised through challenging problem sets and innovative uses of technology. The main differences from Algebra I are the quicker pace and more demanding problem sets.

Geometry (225)

Prerequisites: Algebra I (215 or 219) or by placement test

Length: 2 semesters

Credit: 1 credit

Description: Geometry emphasizes the pictorial aspect of mathematics. Drawing and visualization skills learned in Geometry will help in all future math courses. Geometry is the first complete mathematical system studied. The course emphasizes proof and practical applications. Algebra skills learned in Algebra I are revisited throughout the course in the solution of various geometric problems.

Honors Geometry (229)

Prerequisites: Algebra I (215 or 219) or by placement test

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: Honors Geometry covers all the material that is done in Geometry in greater depth. In particular, students will study proof and logic to a much deeper extent.

Algebra II (235)

Prerequisites: Geometry (225 or 229) or by placement test

Length: 2 semesters

Credit: 1 credit

Description: Algebra II begins by reviewing and extending many of the concepts students learned in Algebra I. The course also introduces new topics which are critical to the mastery of basic pre-calculus as well as success at non-calculus college mathematics. The course emphasizes basic problem solving skills and uses the graphing calculator extensively.

Honors Algebra II (245)

Prerequisites: Geometry (225 or 229) or by placement test

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course assumes basic mastery of Algebra I concepts and does not spend time reviewing. It covers all the topics covered in Algebra II but with greater emphasis on the underlying

theory of the mathematics involved. This course includes more functional analysis and graphing than Algebra II.

Honors Algebra II /Trigonometry with Limits (249)

Prerequisites: Honors Geometry (229)

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is designed to allow very talented students who did not have the opportunity to advance into high school math while in grade school the chance to take college level calculus as a senior. The best description of this course is that it does two years of honors mathematics, Honors Algebra II and Honors Pre-Calculus, in one year. The pace of the course is extremely quick. There is an expectation of independent study. The homework level in this course is about double that of the typical math course. Students enrolled in this course need not only tremendous ability but a true commitment to the study of mathematics.

Pre-Calculus (244)

Prerequisites: Algebra II (235 or 245) or by placement test

Length: 2 semesters

Credit: 1 credit

Description: Pre-Calculus is a fundamental pre-calculus course that also includes time spent on various non-calculus concepts. The purpose of the course is to expose students to a variety of topics that they may encounter in their college math courses. Since most students will be required to take some form of calculus in college, the main part of the course is basic pre-calculus. The course emphasizes problem solving over theory and uses the graphing calculator extensively.

Honors Pre-Calculus (256)

Prerequisites: Algebra II (235 or 245) or by placement test

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Description: Honors Pre-Calculus is a rigorous pre-calculus course. It covers all the topics that Pre-Calculus does and then some. The course also stresses theory and proof as well as problem solving techniques. Honors Pre-Calculus is designed for the very motivated and mathematically interested student.

Advanced Placement Statistics (260)

Prerequisites: Pre-Calculus (244 or 256) or Honors Algebra II/ Trigonometry with Limits (249)

NB: Pre-Calculus (244 or 256) can also be a corequisite.

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credits: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: AP Statistics is the equivalent of a non-calculus based, one semester, introductory, college course in statistics. The course explores gathering, organizing, analyzing, and interpreting of data. Heavy emphasis is placed on the use of the statistical calculator for performing calculations, so that more focus can be placed on the meaning of these numbers. Students will be prepared for and required to take the AP Statistics exam.

Advanced Placement Calculus AB (270)

Prerequisites: Honors Precalculus (256) or Honors Algebra II/Trigonometry with Limits (249)

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: AP Calculus AB is equivalent to one semester of college calculus. AP Calculus BC is equivalent to two semesters of college calculus. Calculus is a comprehensive study of limits, differentiation, and integration along with their application. Students will be prepared for and required to take the AP Calculus AB exam.

Advanced Placement Calculus BC (280)

Prerequisites: Honors Precalculus (256) or Honors Algebra II with Trigonometry and Limits (249)

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: AP Calculus AB is equivalent to one semester of college calculus. AP Calculus BC is equivalent to two semesters of college calculus. Calculus is a comprehensive study of limits, differentiation, integration, and sequences and series along with their application. Students will be prepared for and required to take the AP Calculus BC exam.

Multivariable Calculus (292)

Prerequisites: AP Calculus BC (280)

Length: 2 semesters

Credit: 1 credit

Description: This course covers differential, integral, and vector calculus for functions of more than one variable. These mathematical tools and methods are used extensively in the physical sciences, engineering, economics, and computer graphics.

Computer Science: Java I (291)

Prerequisites: Pre-Calculus (244 or 256); can be corequisite with approval from department chair

Length: 2 semesters

Credits: 1 credit

Description: Java I introduces object-oriented programming and design principles using the Java Programming Language with a concentration on problem solving and algorithm development. It also includes the study of data structures, design, and abstraction. It is designed to serve as a first course in

computer science for students with no prior computing experience. This course uses Eclipse as the Integrated Development Environment, and endeavors to solidify students' knowledge of program structure; data types and objects; loops and conditions; arrays and array lists; class design and advanced functions of sorting, searching, recursion, and file i/o.

Computer Science: Java II (293)

Prerequisites: Java I (291) or summer prep course

Length: 2 semesters

Credit: 1 credit

Description: Java II continues the topics of Java I by reviewing fundamental programming concepts and expands them to cover AP Computer Science topics such as Advanced Class Design. It teaches database design and programming using the SQL Language, with Microsoft SQL as the Primary Development Tool. It also introduces HTML and CSS principles, with system design and modeling principles. Students are encouraged to take the AP Computer Science exam.

Computer Science: Java III (295)

Prerequisites: Java II (293)

Length: 2 semesters

Credit: 1 credit

Description: Students will design, develop, and deploy a real-world software application. During the process students will learn class and database design methodologies including the Unified Modeling Language (UML) and the Unified Process, software architecture principles, and use and practice agile modeling/scrum development principles. Students perform all aspects of software development from requirement gathering to design to development to testing to rollout.

SCIENCE COURSES

To meet graduation requirements, each student must earn three lab credits in science courses including one lab credit in biology, one lab credit in chemistry, and one lab credit in physics. The department offers regular and honors versions of these courses as well as advanced placement courses of each: AP Biology, AP Chemistry, and AP Physics. Additional electives are also available for juniors and seniors: Honors Anatomy and Physiology, Environmental Science, and Marine Science. The science curriculum offers comprehensive courses of study with Jesuit values to form each student into a scientifically inquisitive, lifelong learner dedicated not only to understand the world, but ethically committed to a just society. All courses are state-approved laboratory science courses and meet for 55 minutes each day.

Biology (515)

Length: 2 semesters

Credit: 1 credit

Description: Biology is a course required of all freshman. The student will learn and discuss the key facts of modern biology as seen through seven major unifying themes; gain an appreciation of the variety of life forms on the earth and of our responsibilities toward them; become aware of the biological problems facing the world such as AIDS, global warming, and the loss of the ozone layer, and discuss

their solutions; use laboratory experiences and computers to enrich textbook readings and classroom discussions, and demonstrate basic biological laboratory techniques.

Honors Biology (519)

Qualifications: Entrance exam score of 90th percentile or higher, grade school grades of A- or better, and grade school teacher recommendations for advanced coursework.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is offered to a limited number of freshmen based on the recommendation of the department. It covers more material than standard Biology and includes additional laboratories. The student will learn and discuss key facts of modern biology as seen through seven major unifying themes; gain an appreciation of the variety of life forms on the earth and of our responsibilities toward them; become aware of the biological problems facing the world such as AIDS, global warming, and the loss of the ozone layer, and discuss their solutions; use laboratory experiences and computers to enrich textbook readings and classroom discussions, and demonstrate advanced biological laboratory techniques.

Chemistry (535)

Prerequisites: Biology (515 or 519)

Length: 2 semesters

Credit: 1 credit

Description: Chemistry is the study of the properties and transformations of matter. A college-preparatory course deals with chemical principles under two unifying themes: (1) atomic and molecular structure, and (2) chemical dynamics and equilibrium. The areas covered are: atomic theory, periodic law, gas laws, chemical bonding, acids and bases, states of matter, kinetics, oxidation-reduction, and equilibrium. Emphasis is placed on the scientific method of making observations, seeking relationships, and making predictions. Practical applications of chemistry and environmental problems will be covered.

Honors Chemistry (539)

Prerequisites: (Biology 515 or 519)

Qualifications: Grade of B or better in science and math, minimum 3.0 cumulative GPA, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is an advanced level of first year high school chemistry; thus, the course is geared toward those students who plan on taking chemistry in college. The lectures, laboratory exercises, and tests will be similar to what a student would see in a first year college chemistry course. There will be an emphasis on problem solving and critical thinking skills, as the student learns the basic concepts of chemistry. The course will move at a faster pace than Standard Chemistry, and will include more in-depth learning of a greater number of concepts. Laboratory exercises will focus on problem solving and will be detail oriented. In addition, outside projects and research will be assigned to individuals or to small groups. Topics covered during the course include stoichiometry,

thermodynamics, atomic structure, solutions, gases, kinetics, and equilibrium.

Advanced Placement Biology (530)

Prerequisites: Chemistry (535 or 539)

Qualifications: Grade of B or better in science, minimum 3.3 cumulative GPA, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: AP Biology is a course for the junior or senior who wishes to take a second course in biology, especially with the goal of receiving college credit. This course will cover the topics most often found in a college general biology course under the main headings of molecular and cellular biology, genetics and evolution, and organisms and populations. Through lectures, readings, and laboratory experiments these topics will be explored with the following goals in mind: to know the basic facts, principles, and processes of biology; to understand the means by which biological information is collected and interpreted, and how hypotheses are formulated; to understand the social consequences of advancements in biological science. Students will be prepared for and required to take the AP Biology exam.

Advanced Placement Chemistry (540)

Prerequisites: Honors Chemistry (539)

Qualifications: Grade of B or better in science, a minimum 3.3 cumulative GPA, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$93 testing fee

Description: This course is to be taken only after the successful completion of a first year high school honors chemistry course. Students should attain a depth of understanding of fundamental concepts as well as problem solving. This is done through extensive, higher level thinking approaches in classroom discussion and laboratory activities. There is emphasis on development of the students' ability to think, both clearly and logically, in an oral and written manner. Students will be prepared for and required to take the AP Chemistry exam.

Marine Science (543)

Prerequisites: Chemistry (535 or 539)

Length: 2 semesters

Credit: 1 credit

Description: This year-long course will provide students with a survey of various topics in Marine Science. The basics of oceanography that create a variety of conditions for marine organisms will be the main focus of the first semester including physical geography and geology of the ocean as well as the physical properties of fresh and saltwater bodies. The second semester will center on the marine organisms and the adaptive pressures on organisms, including ecological influences on biological diversity through the use of discussion and independent study. Specifically, topics will include chemical

properties of seawater, causes and effects of tides, animal and plant communities in oceans and lakes, and the flow of nutrients through bodies of water. The ocean's importance to mankind, through its impact on global climate and the use of fisheries will be stressed throughout the course and with possible field trips to marine laboratories throughout the state.

Environmental Science (546)

Prerequisites: Chemistry (535 or 539)

Length: 2 semesters

Credit: 1 credit

Description: The goal of this course is to provide students with the scientific, theological and literary background needed to understand how the Earth works, and its many interactions, and how we, as human beings, fit into that. At the end of the course, students will be able to identify and analyze environmental problems, critically assess cost/benefit on a moral basis of these problems and understand what it is to be a steward in the environment, studying how to live their lives in a more sustainable manner.

Physics (555)

Prerequisites for Juniors: Chemistry (535 or 539) and Geometry (225)

Prerequisites for Seniors: Chemistry (535 or 539)

Qualifications for Juniors: Grade of B or better in math

Length: 2 semesters

Credit: 1 credit

Description: Physics is the study of the behavior and interactions of energy and matter. The areas covered in this college preparatory course are: mechanics (the study of motion and its causes); waves, sound, and light; and electricity and magnetism. Emphasis is placed on understanding concepts, derivation of some of the mathematical expressions, and solution of concrete problems. This is accomplished through classroom and laboratory exercises.

Honors Physics (559)

Prerequisites: Chemistry (535 or 539)

Corequisites: Honors Algebra II with Trig (245) or higher

Qualifications: Grade of B or better in science and math, minimum 3.0 cumulative GPA, and teacher recommendation.

Credits: 1 credit

Description: This course is designed to cover the topics of Physics in greater depth as well as additional topics. Honors students will be expected to solve problems that require more synthesis and more abstract thinking. The areas covered in this college preparatory course are: mechanics (the study of motion and its causes); waves, sound, and light; and electricity and magnetism. This is accomplished through classroom and laboratory exercises. Additional topics include 2-D momentum and rotational dynamics.

Emphasis is placed on understanding concepts, derivation of the mathematical expressions, and solution of concrete problems.

Advanced Placement Physics (560)

Prerequisites: Chemistry (535 or 539)

Corequisites: AP Calculus AB (270) or higher

Qualifications: Grade of B or better in science, a minimum 3.3 cumulative GPA, and teacher recommendation

Credits: 1 credit

Description: AP physics is a first-year course designed to prepare the student to take both parts of the Physics C exam. The first half of the year is devoted to Mechanics, and the second half to electricity and magnetism. Calculus is used in the presentation and in the solution of some problems. Students will be prepared for and required to take the AP Physics C exam.

Honors Anatomy and Physiology (575)

Prerequisites: Chemistry (535 or 539).

Qualifications: Grade of B+ or better in science, minimum 3.5 cumulative GPA, and teacher recommendation

Credits: 1 credit

Description: The course is an elective laboratory science class in anatomy and physiology offered to juniors and seniors. The student interested in a future health science career (physician, medical research, physical therapy, sports training, nursing) would particularly benefit from the class. The course allows the student to complete the Pre-Med program along with their biology, chemistry, and physics classes. The coursework covers material not offered in either standard or honors biology. The study of human anatomy and physiology is covered using a systemic approach: the coursework details the elegant workings of the biomedical machine which is the human body. Particular emphasis will be placed on the medical aspects of diseases/pathologies in the human body. The laboratory side of the class will present dissections using a comparative animal anatomical approach, ranging across the invertebrate and vertebrate fauna from worms through mammals.

THEOLOGY COURSES

To meet graduation requirements, each student must earn four credits in theology courses. The United States Conference of Catholic Bishops has created and mandated that all Catholic high schools in the United States follow a curriculum framework titled Doctrinal Elements of a Curriculum Framework for the Development of Catechetical Materials for Young People of High School Age. This framework is designed to shape a four-year, eight-semester course of catechetical instruction. It is composed of six core semester-length subject themes with room for a school to choose two elective subject themes. St. Ignatius gives seniors the choice of three electives in the first semester (see below, Senior Theology) "The Catholic school affords a particularly favorable setting for catechesis with its daily opportunity for proclaiming and living the Gospel message; for learning and appreciating the teachings of our Church; for acquiring a deep understanding, reverence, and love of the Liturgy; for building community; for prayer; for proper formation of conscience; for the development of virtue; and for participating in Christian service" (National Directory for Catechesis, 9d, p. 233).

Scripture: The Revelation of Jesus Christ (916)

Credits: .5 credit

Description: The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through inspiration, and its

value to people throughout the world. If they have not been taught this earlier, they will learn how to read the Bible and become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally. As members of a Jesuit high school, students will also be formed in Ignatian history, spirituality and practice.

Christology: Who is Jesus Christ? (917)

Prerequisites: Scripture (916)

Credits: .5 credit

Description: The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who He is, the students will also learn who He calls them to be.

Ecclesiology: The Mission of Jesus Christ Continues in the Church (927)

Prerequisites: Christology (917)

Credits: .5 credit

Description: The purpose of this course is to help students understand that in and through the Church they encounter the living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by Him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ. This Body has both divine and human elements. In this course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church.

Sophomore Service (011)

Prerequisites: Christology (917)

Credits: .5 credit

Description: Students serve at a non-profit agency once a week in a three-hour block of time during the school day. Students also spend one class period a week in seminar, reflecting on the meaning of Christian service. Service placement is at the discretion of the school and requires the student to walk to or be driven to his particular service site. Every student, including students transferring into Saint Ignatius High School at any grade level, must take the Sophomore Service course as part of his Theology graduation requirement.

Christian Morality: Life in Jesus Christ (941)

Prerequisites: Ecclesiology (927)

Credits: .5 credit

Description: The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plan for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples. In the course students will focus on beginning and end of life issues, the theology of the body, and other social issues.

Advanced Placement Research: Studies in Christian Morality (941AP)

Prerequisites: Ecclesiology (927) and Honors English II: AP Seminar (130)

Qualifications: minimum 3.3 cumulative GPA and teacher recommendation

Credits: 1 credit

NB: The credit earned from this course counts for Christian Morality (941) and Public Speaking (835).

Description: AP Research is the second course in the AP Capstone program. While working with an expert advisor, explore an academic topic, problem, or issue that interests you and design, plan, and conduct a year-long research-based investigation to address it. The course culminates in an academic paper of 4,000-5,000 words and a presentation, with an oral defense; during which you will answer 3-4 questions from a panel of evaluators. If you earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of your choosing, you will receive the AP Capstone Diploma. This signifies outstanding academic achievement and attainment of college-level academic and research skills. Alternatively, if you earn scores of 3 or higher in AP Seminar and AP Research only, you will receive the AP Seminar and Research Certificate.

Sacraments: Privileged Encounters with Jesus Christ (938)

Prerequisites: Christian Morality (941) or Advanced Placement Research (941AP)

Credits: .5 credit

Description: The purpose of this course is to help students understand that they can encounter Christ in a full and real way through the sacraments and, especially, through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ.

Sacred Scripture (950)

Prerequisites: Sacraments (938)

Credits: .5 credit

Description: The purpose of this course is to give an overview of Sacred Scripture with an introduction to the basic principles for understanding and interpreting the Bible. Every effort is made to discover the divine plan of salvation, the presence of God's action in this record of His Revelation, and His desire to share His merciful love with us.

Christian Manhood: Responding to the Call of Jesus Christ (951)

Prerequisites: Sacraments (938)

Credits: .5 credit

Description: The purpose of this course is to help students understand the vocations of life: how Christ calls us to live. In this course students will learn how all vocations are both similar and different. The course is structured around married life, single life, priestly life, and consecrated life. Students will learn about what it means to live life for others and to consider a vocation in service to the Christian community.

History of the Catholic Church (952)

Prerequisites: Sacraments (938)

Credits: .5 credit

Description: The purpose of this course is to supply the students with a general knowledge of the Church's history from apostolic times to the present. They will be introduced to the fact that the Church was founded by Christ through the Apostles sustained by the Holy Spirit. The students will come to know that the Church is the living body of Christ and, as such, has both divine and human elements. In this course students will learn about the Church's 2,000 years of history and about how the Church is led and governed by the successors of the Apostles.

Other Worlds - Study of Social Justice in Ireland (968)

Qualifications: Open to students registered for the Irish Studies Summer Study Abroad Program.

Credits: .5 credit

NB: This course features a dual enrollment with Other Worlds - Study of Literature and Culture of Ireland (184). The credit earned from this course takes the place of a first semester theology course.

Students may still take a first semester theology course but are not required to do so.

Description: Since 2008, Saint Ignatius and Walsh Jesuit have partnered to deliver a unique service-learning program in Belfast, Northern Ireland. The program consists of a rigorous academic curriculum of two team taught courses delivered by Saint Ignatius and Walsh Jesuit faculty coupled with lectures by Queen's University (Belfast) professors. Students complete daily reflections coupled with a meaningful cross-community service project. The program structure utilizes the Ignatian pedagogical method of context, experience, reflection, action, and evaluation. The Summer Program cultivates the understanding, knowledge, skills and attitude change that will enable participants to partake in conflict transformation and social justice initiatives at a local, national, and international level.

The Paschal Mystery of Jesus (942)

Prerequisites: Sacred Scripture (950), Christian Manhood (951), or History of the Catholic Church (952)

Credits: .5 credit

Description: The purpose of this course is to help students understand all that God has done for us through His Son, Jesus Christ. Students will learn that, for all eternity, God has planned for us to share eternal happiness with Him. Students will learn that they share in this redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.