

ST. PIUS X CATHOLIC HIGH SCHOOL

Atlanta, Georgia



COURSE CATALOG

2011-2012

June 2011

Graduation Requirements

<u>Credits</u>	<u>Subject</u>
4	Theology (or .5 per semester at St. Pius)
4	English* Electives Classics of Film and Literature
3	Social Studies* World History, United States History, Government/Economics Electives Geography/Ancient Civilizations Current Issues and Political Speech AP European History Psychology or AP Psychology Sociology AP Macro and Microeconomics History and the Holocaust
4	Mathematics*
4	Science* Physical Science or Physics, Chemistry, and Biology- Required Plus one or more of the following Anatomy and Physiology Physics (if Physical Science was taken) AP Chemistry AP Biology Marine Biology Zoology
2	Foreign Language (must be in one language)* Electives Foreign language beyond second year A second language
1	Physical Education Personal Fitness Health
.5	Computer Applications
1.5	Electives
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24	TOTAL

* Denotes core academic area

Works of Mercy Requirement

Students are required to take part in the Works of Mercy Apostolic Program as part of their ongoing Catholic formation. Students are to complete their Works of Mercy service requirements outside of the regularly scheduled school day unless the project is a Campus Ministry/St. Pius sponsored event (ie; Mission trip and March for Life).

Students must complete 5 Apostolic Projects per year. Each project must be no less than 2 hours in length. Of the 5 projects at least 3 must be from the Works of Mercy list found on the spx.org web site. The remaining 2 projects are the choice of the student, but must be approved by Campus Ministry. Specific concerns about projects must be addressed by Campus Ministry prior to completion. Failure to meet the requirements of the program will be reflected in a 10 point deduction from the second semester Theology grade. In addition, seniors who do not complete the requirement will not be allowed to walk at the graduation ceremony. Freshmen, sophomores, and juniors who do not complete the requirement will not be allowed to be out of uniform on any day for the following school year.

Course Catalog Information

The first line of each course description has the course number, name, level (AP = Advanced Placement, H=Honors, and CP = College Prep) and duration (one semester (S) or a full year (Y) in length).

Students are invited by departments to participate in AP and Honors courses based on their demonstrated ability, skills, work habits and motivation. Students enrolled in AP and Honors courses who do not continue to demonstrate these qualities will have their invitations withdrawn from the programs.

Courses labeled AP include an 8 point addition in the final numeric average and require an \$80 fee for the AP exam. Students should anticipate an average of 1 hour of homework per night per class. Students enrolled in AP courses are required to take the AP exam in May.

The College Prep courses at St. Pius X are rigorous programs of study which prepare the students for the demands of competitive colleges. College Prep courses accommodate student learning styles by using two teaching formats. Some College Prep courses require greater independence and more long term assignments. Others are more structured with daily homework assignments, frequent quizzes and long term projects broken into several steps. It should be noted that most of these classes use the same textbook.

Students are expected to take any full year course (those labeled Y) for the entire year whether the course is required or an elective. It is not acceptable to drop the course at the semester except in extraordinary circumstances.

Once the school year has started it is not appropriate to change electives or drop a one semester elective course for a study hall or unassigned period.

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BUSINESS AND COMPUTER SCIENCE

6.4150702

Business Law CP (S)

Offered to 11th – 12th grade students

Department approval required

This course is designed to enable students to relate law to current cases and situations as well as to see the law's implications in their futures. The course is challenging and rewarding, with topics including the nature and sources of law, criminal law, trial procedures, contracts, consumer law, employment, family law and real estate law.

7.4120701

Principles of Accounting CP (S)

Offered to 11th – 12th grade students

Department approval required

This course provides students with an opportunity to develop a sound understanding of the basic accounting principles and procedures, to handle daily records and financial activities of a small or medium-sized business, and to use accounting records to make decisions. The computer is used in many of the accounting application problems.

7.4411702

Computer Applications CP (S)

Required of 9th grade students

This course is designed to introduce and reinforce the concepts of word processing, spreadsheet design, publishing, and presentation software as well as computer systems and networking. Instruction is given for the production of letters, research papers, tables, databases, spreadsheets, brochures, and multimedia presentations utilizing the computer.

7.0000703

Computer Publishing and Graphics CP (S)

Offered to 9th - 12th grade students

Prerequisite - Computer Applications

This course is designed to enable students to develop a high level of operational skill on the computer integrating graphics software programs such as *PhotoShop*, *Flash*, *Dreamweaver*, and *Fireworks*. Authentic assessment is through the production of projects and multi-media presentations.

11.0000786

Java Programming CP (S)

Offered to 10th – 12th grade students

Department approval required

In this advanced Java programming language course, students will study computer systems, primitive data types, standard computer algorithms, and data structures in an object oriented environment. Students enrolled in this course will demonstrate their knowledge and skills by designing and coding portable applications.

11.4310701

Web Design CP (S)

Offered to 9th – 12th grade students

Prerequisite – Computer Applications

This web design class provides a thorough introduction to implementing a full-featured web site on the Internet or intranet. The course starts with an introduction to the Internet and progresses to the implementation of dynamic client-side content using HTML, XHTML, JavaScript and web design software such as Adobe Suite. Students enrolled in this course will create, design, and develop actual web pages.

11.4280702

Media Technology CP (S)

Offered to 9th – 12th grade students

Prerequisite – Computer Applications

Students create broadcast quality video utilizing computing technology and industry standard software. Students plan and develop news stories, movies, advertisements, music videos; film footage, edit video, and deliver the product to the school community. The course provides an environment for students to develop competency in media literacy, including critical thinking and self expression. Students progress through different production roles, including technical crew, director, producer, and/or broadcaster. There will be additional time spent out of class shooting footage, editing video, and producing the broadcast.

11.0130703

Computer Programming I CP (S)

Offered to 10th - 12th grade students

Department approval required

This is a hands-on computer programming course that uses Visual Basic.NET and other programming languages. The student will focus on problem solving, logic, critical thinking, language syntax, top-down structure, reading internalization and documentation. The knowledge and skills gained in this course can easily be transferred into real-world applications.

11.0130704**Computer Programming II CP (S)***Offered to 10th – 12th grade students**Prerequisite: Computer Programming I*

In this advanced programming language course, students will study computer systems, primitive data types, standard computer algorithms, and data structures in an object oriented environment. Students enrolled in this course will demonstrate their knowledge and skills by designing and coding portable applications.

11.4320705**Advanced Web Design/Web Development CP (S)***Offered to 11th -12th grade students**Prerequisite – Web Design**Department approval required*

This course will provide students with practical applications of web development technologies. Students will learn the skills needed to develop an interactive, database driven website; students will develop an understanding of the web development task and an appreciation of the importance of the Internet in both business and academic environments. Specific technical topics to be covered include web server software, database systems, and a programming language, such as PHP.

11.0160741**Advanced Placement Computer Science (Y)***Offered to 10th – 12th grade students**Department approval required*

An AP Computer Science course is intended to serve both as an introductory course for computer science majors and as a course for people who will major in other disciplines that require significant involvement with computing. AP Computer Science is an advanced course in computer programming and problem solving. Students will study computer systems, primitive data types, standard computer algorithms, and data structures in an object-oriented environment using the Java programming language. This advanced course follows the curriculum set up by the College Board for the AP Computer Science course. Although students will be using the Java programming language, programming skills are the focus of this course. All students enrolled in this course are required to take complete the AP Computer Science exam in the spring.

ENGLISH

23.0610714 English I Literature and Composition CP (Y)

Required of 9th grade students

For the student who has strong language arts skills, this course develops reading ability and introduces literary terms describing elements of the short story, novel, poetry and drama. Writing instruction emphasizes sentence maturity, paragraph development, and essay introduction. To enhance reading comprehension, vocabulary is studied. Grammar study includes recognition of parts of speech and analysis of sentence structure.

23.0610724 English I Literature and Composition CP (Y)

Required of 9th grade students with Department approval

This course is designed for students to study short stories, poetry, novels and drama. Comprehension skills, vocabulary study, and literary terms of each genre are emphasized. Writing instruction emphasizes sentence maturity, paragraph development, and essay introduction. Grammar study includes recognition of parts of speech and analysis of sentence structure.

23.0610734 English I Literature and Composition H (Y)

Required of 9th grade students with Department approval

This course is designed for the student who demonstrates a high degree of language arts skill. Literature study emphasizes the genres: poetry, short stories, novels, plays, epic poetry, and an in-depth study of Greek mythology. Students will learn to read critically and analytically while appreciating language. Writing instruction emphasizes literary analysis, focusing on organization of an argument, style, and mechanics. Grammar study is thorough, and vocabulary study builds on etymology.

23.0620715 English II Literature and Composition CP (Y)

Required of 10th grade students

This course provides wide reading in world literature, organized around both literary genres and universal themes. Outside novels, plays, and poetry are read throughout the year with an emphasis on critical thinking skills. Writing includes narrative, descriptive, expository, and persuasive paragraphs and essays in MLA format; skills in literary analysis and research are developed. Grammar and vocabulary are studied.

23.0620725 English II Literature and Composition CP (Y)

Required of 10th grade students with Department approval

This course provides a variety of readings in world literature, organized around both literary genres and universal themes with an emphasis on critical thinking skills. Writing includes narrative, descriptive, expository, and persuasive paragraphs and essays. Students write critical essays that incorporate research skills and require MLA format. Grammar and vocabulary are studied.

23.0620735 English II Literature and Composition H (Y)

Required of 10th grade students with Department approval

This course is designed for the student who demonstrates a high degree of language arts skill. It emphasizes the critical analysis of a variety of literary selections in preparation for the AP English classes in the junior and senior years. This class provides wide reading in world literature, organized around essential questions, themes, and literary genres. Writing includes narrative, descriptive, expository, and persuasive essays; creative, critical and research skills are developed. A short research paper using MLA guidelines is required. Grammar and vocabulary are studied.

23.0510716 American Literature/College Writing CP (Y)

Required of 11th grade students

This course is a survey of the themes of many writers of American literature drawn from varied traditions. Students write expository and argumentative essays on literary and general topics; creative writing is included. Critical thinking, research, and writing skills continue to be developed. A review of grammar and a study of vocabulary are part of the curriculum.

23.0510726 American Literature/Writing CP (Y)

Required of 11th grade students with Department approval

This course is a survey of American literature studied chronologically emphasizing reading, vocabulary, and comprehension skills. Critical thinking, research, and writing skills continue to be developed. Students write expository

and argumentative essays on literary and general topics. Students study grammar, vocabulary, and read assigned novels and plays.

23.0430746

Advanced Placement English Language and Composition (Y)

Required of 11th grade students with Department approval

Students in this college-level course will have previously demonstrated strong writing and analytical skills. Students explore the standard American literature curriculum with an emphasis on how language works and the rhetorical choices writers make. Major American authors, outside novels, plays, and non-fiction prose are analyzed in depth with extensive expository and persuasive writing on literary topics. Creative writing is also included, as are vocabulary study and a review of grammar and usage as necessary. Students are required to take the AP English Language Exam in May.

23.0520737

British Literature/Creative Writing H (Y)

Required of 12th grade students with Department approval

This course has been designed for students who demonstrate above-average analytical writing skills, who need only to hone these skills to prepare for college coursework, and who desire to explore their creative selves by composing poetry, drama, and short fiction. In this course, students examine major works of British literature, analyze through writing the social, political, and artistic merit of them, and compose their own literary works using the traditional techniques of British authors.

23.0520718

British Literature/College Writing CP (Y)

Required of 12th grade students

This course combines major works of English literature with a development of more mature writing skills. Writing includes techniques of exposition, argumentation and literary criticism with attention to mechanics and usage. Students practice writing personal essays; the goal is to develop clear expression and logical organization. Students read and analyze plays and outside novels; vocabulary study is also part of the curriculum.

23.0520728

British Literature/Writing CP (Y)

Required of 12th grade students with Department approval

This course combines major works of English literature with essay writing, grammar and vocabulary. Writing includes techniques of exposition and argumentation with attention to mechanics and usage. Students read and analyze outside novels and plays. A review of test taking strategies takes place before the SAT is taken.

23.0650748

Advanced Placement English Literature and Composition (Y)

Required of 12th grade students with Department approval

This course has been designed for the student who has acquired skill in analyzing literature and writing well and who wishes to attempt to receive college credit through the AP exam. The course includes a study of major British writers, outside novels and plays, critical writing, research and creative writing. Students are required to take the AP exam in May.

23.0510719

Classics of Film and Literature CP (S)

Offered to 12th grade students with Department approval

Significant films and literary works are studied for their narrative, dramatic, and cinematic value. This course combines the art of fiction and the art of cinema to encourage students to read, write about, and observe classic works of literature which have been translated into film. Outside reading, research, writing, and group film projects are part of the curriculum.

JOURNALISM

23.0320701

Journalism CP (S)

Offered to all students with Department approval

Students investigate the history of journalism in the United States of America. Media law, journalistic ethics, and daily news coverage are investigated to encourage students to be better reporters and consumers of news in the Information Age. Proper interviewing techniques and layout design with an emphasis on page elements for communication purposes are discussed. Proper photography technique, darkroom technique and operation are covered extensively culminating in personal production of black and white photos from conceptualization to darkroom production. This course is a prerequisite for the school newspaper, yearbook, and literary/art magazine staffs. A computer lab and darkroom allow students to explore and create projects. A \$50 darkroom fee and access to a camera are required for this course.

23.0320702

Journalism/Magazine CP (S)

Offered to 10th – 12th grade students with Department approval

This journalism course teaches hands-on production in the design and publication of the school literary/art magazine, *Carpe Diem*. Through the practical experience of producing the magazine, students learn and develop the basic magazine journalism skills of soliciting and evaluating students' literary and artistic work, planning, marketing, financing, and publication design. Students are expected to spend some time outside of class to produce the magazine.

23.0320708

Journalism/Newspaper CP (Y)

Offered to 10th – 12th grade students

Prerequisite - Journalism 23.0320703

Writing sample may be required

The newspaper class is responsible for the complete production of six or more issues of the student newspaper, *Golden Lines*, each school year. Students improve their basic journalism skills of reporting, writing, editing, design and production learned in Journalism through the practical experience of producing the student newspaper. Students are responsible for all aspects of financing, managing and producing the newspaper. Staff members are appointed to positions by the newspaper adviser and the editorial board. Students are expected to spend some time outside of class to produce the newspaper.

23.0320709

Journalism/Yearbook CP (Y)

Offered to 10th – 12th grade students

Prerequisite – Journalism 23.0320703

Writing sample may be required

This journalism course teaches hands-on production in the design and publishing of the school yearbook, *Golden Echoes*. Through the practical experience of producing the yearbook, students learn and develop the basic journalism skills of reporting, writing, editing, layout design, photography and the business skills of organization, planning, marketing, finance and distribution. Students are expected to spend some time outside of class to complete their assignments.

FINE ARTS

50.0211701 Survey of the Visual Arts CP (S)

Offered to 9th – 12th grade students

This introductory course is designed to provide experience in a wide range of art forms. Students explore a variety of art materials and techniques through a series of projects which might include basic design, art history, painting, ceramics, sculpture and crafts.

50.0311702 Drawing I CP (S)

Offered to 9th – 12th grade students

Beginning students explore the world of drawing. The elements, principles and technical skills are acquired through a series of sequential drawing experiences dealing mainly in pencil with additional experimentation in charcoal, ink, pastel, and markers.

50.0312703 Drawing II CP (S)

Offered to 9th – 12th grade students

Prerequisite - Drawing I

The focus of the course is for students to further develop their drawing abilities and skills, after learning the basic fundamental skills from Drawing I. The goal of this course is to develop a more individual approach to drawing.

50.0411704 Clayworks I CP (S)

Offered to 10th – 12th grade students

The focus of this course is on all aspects of working with clay. The course covers hand building, coil and slab techniques, and various techniques of glazing and finishes with possible wheel throwing at the end of the semester.

50.0412705 Clayworks II CP (S)

Offered to 10th – 12th grade students

Prerequisite - Clayworks I

This course is for students who have completed a semester of Clayworks and will focus on a more in depth approach to working with all aspects of clay. The course will cover hand building, wheel throwing and various techniques of glazing and finishes.

50.0611706 Three-Dimensional Sculptural Forms CP (S)

Offered to 10th – 12th grade students

This course is for the student interested in the construction of three-dimensional pieces involving a variety of media: paper, wood, fiber, clay, plaster, metal and other mixed techniques involved in the construction of sculpture.

50.0000707 Design Fundamentals CP (S)

Offered to 10th - 12th grade students

This course deals with the application of the elements and principles of design in a variety of mediums. Students are given assignments that apply to areas of design which might include graphic art, illustration, and architecture.

50.0321708 Exploring Painting CP (Y)

Offered to 10th – 12th grade students

Prerequisite - Drawing I or Survey of the Visual Arts

Students will learn the historical development of painting through series of related projects. Students will apply color theory and color relationships to create various color effects in their work and master techniques related to the medium.

50.0000709 Advanced Studio Art CP (Y)

Offered to 11th – 12th grade students

Prerequisite--Drawing I and/or Survey of the Visual Arts

Advanced Studio Art is designed for the serious minded art student who has mastered the fundamental skills and desires to further develop his/her artistic abilities. This course focuses on the perfection of technical skills through work with sophisticated imagery and in-depth assignments.

50.0813740 **Advanced Placement Studio Art: 2D (Y)**
Offered to 12th grade students *Prerequisite – Advanced Studio Art and at least one of the following: Drawing I, Drawing II, Exploring Painting or Design Fundamentals.*
All students are required to submit a portfolio showing proficiency in drawing and painting.

This course is designed for self-motivated students committed to serious study in art. A prescribed portfolio reflecting three areas of study, quality concentration, and breadth, is submitted to the evaluators of the Advanced Placement program. All students are required to submit an AP portfolio and college credit may be awarded on the basis of the evaluation.

50.0811741 **Advanced Placement Studio Art: Drawing (Y)**
Offered to 12th grade students *Prerequisite – Advanced Studio Art and Drawing I or Survey of the Visual Arts as well as Drawing II or Exploring Painting.*
All students are required to submit a portfolio showing proficiency in drawing and painting.

This course is designed for self-motivated students committed to serious study in art. A prescribed portfolio reflecting three areas of study, quality concentration, and breadth, is submitted to the evaluators of the Advanced Placement program. All students are required to submit an AP portfolio and college credit may be awarded on the basis of the evaluation.

51.0000701 **Dance I CP (Y)**
Offered to 9th – 12th grade students

This course is an introduction to ballet, jazz and various social dance forms. The course focuses on the basic concepts and performances related to these dance forms. Group discussions center on dance vocabulary, dance history and choreography. Students perform in the Spring Dance Concert and the student choreography project.

51.0000702 **Dance II CP (Y)**
Offered to 9th – 12th grade students *Audition required*

This course continues the study of ballet and jazz fundamentals at the intermediate level. An introduction to modern dance is also offered. Group discussions center on dance vocabulary, cultural dance history and choreography. Students perform in the Spring Dance Concert and the student choreography project.

51.0000703 **Dance III CP (Y)**
Offered to 9th – 12th grade students *Audition required*

This course continues the study of ballet, jazz, and modern dance at an advanced level. Students further develop their technique through increased complexity in class combinations, musical phrasing and choreography. Group discussions center on dance vocabulary, dance history, dance technology, and choreography. Students work with guest choreographers. Students perform in the Spring Dance Concert and the student choreography project.

51.0000704 **Dance Company CP (Y)**
Offered to 9th – 12th grade student *Prerequisite - currently studying ballet outside of school*
Audition required

This course is for students who have achieved proficiency in ballet, as well as jazz technique through outside training. Students perform at an advanced level and demonstrate the ability to work as an ensemble. Outstanding stage performance and strong work ethic are required. Group discussions center on dance vocabulary, dance history, dance technology, and choreography. Students in this course participate in master classes with visiting dance teachers and work with guest choreographers. Students rehearse on Wednesday afternoons (as well as in daily class) and perform during the Open House, Morning of the Arts, community outreach performances, the Spring Dance Concert and the student choreography project.

52.0000701 **Oral Communication CP (S)**
Offered to 9th – 12th grade students

This course emphasizes personal and interpersonal skills through many verbal and visual projects. The creation of original commercials (writing and videotaping) is the course highlight, as well as a formal speech at the end of the semester. Self-evaluation is an integral part of the class.

52.0210702 **Dramatic Arts/Fundamentals I CP (S)**
Offered to 9th – 12th grade students

This is a basic course in acting for students who have little or no experience in this area. Memorizing lines and performing scenes, as well as the reading of popular plays are some of the challenges. Field trips to live theatrical productions, both amateur and professional, are required. A solo monologue is performed and evaluated at the end of the semester.

52.0220703 **Dramatic Arts/Fundamentals II CP (S)**

Offered to 10th – 12th grade students

This course includes further study of acting techniques: body movement, improvisation, and scene presentation. It also includes more advanced vocal, physical and emotional exercises as well as proper monologue delivery and technique. Students also participate in drama workshops on campus, read popular plays, and take field trips to local professional theaters. Two contrasting monologues are performed at the end of the semester.

52.0000704 **Advanced Scene Study and Improvisation CP (S)**

Offered to 10th - 12th grade students with Department approval

This course will include a detailed examination of scenes from a variety of popular plays both comedic and dramatic. Reading aloud, creative input, and performing will enhance the experience. Corresponding films will also be analyzed. A solo comedy routine is performed at the end of the semester.

52.0000705 **Directing CP (S)**

Offered to 11th – 12th grade students

*Prerequisite - Pius Players for at least 2 years
Department approval required*

This is an intensive course in directing for the advanced drama student. Course includes lectures by guest directors, student directed scenes and a one-act Readers Theatre. Students also assist the Drama Director with Pius Players yearly productions. A directing project is presented at the end of the semester for evaluation.

52.0000706 **Survey of Musical Theatre CP (S)**

Offered to 9th – 12th grade students

This course is designed for actors as well as non actors. The course will examine how musical theatre began in America and its impact on the Broadway experience. Performance techniques are included.

52.0460707 **Theater Technology CP (S)**

Offered to 9th – 12th grade students

Department approval required

This course will emphasize practical use of equipment and operation of the theater. It will include use of lighting and sound equipment, stage and house management, building and equipment maintenance and working with performers and patrons of the arts. Students will be required to participate in at least three of the five Fine Arts productions that take place during second semester. There will be a final exam as well as a comprehensive “hands on” exam.

53.0000790 **Concert Choir CP (S)**

Offered to 9th – 12th grade students

Audition required for new members

The focus of this class is on vocal technique and ensemble singing. Students will preferably have a basic knowledge of music reading ability, although this is not a requirement. Students should be able to match pitch and discern rhythmic patterns. Members are encouraged to take private voice lessons. The concert choir performs at school masses, other school events, Christmas and Spring concerts as well as select choral festivals. The group will be required to rehearse after school in preparation for these concerts.

53.0841701 **Beginning Guitar CP (Y)**

Offered to 9th – 12th grade students

This course is for students with little or no experience on the guitar. Students learn the fundamentals of guitar, finger style techniques, and how to read and write music. No prior music knowledge is necessary. Development of musical sense and understanding of basic musical concepts and theory will be introduced with the guitar. History of the guitar in Western music will be examined. Emphasis is on proper form and technique development. Students are required to have a suitable guitar prior to the first class. Acoustic and nylon string guitars are preferred, but not required. This is a performance class and after school rehearsals, performances, and concerts are required.

53.0851702 **Intermediate Guitar CP (Y)**

Offered to 9th – 12th grade students

Audition required

This course is for students with a working knowledge of the fret board on the guitar. Students work on more advanced concepts of right and left hand techniques with the guitar. The course teaches music reading skills, theory, and improvisational techniques. Development of musical concepts and improvisational styles will be examined. Classical and modern guitar literature in Western music will be examined. Emphasis is on proper form and technique development. Students are required to have a suitable nylon string guitar. This is a performance class and after school rehearsals, performances, and concerts are required.

53.0861703 **Advanced Guitar CP (Y)**
Offered to 9th - 12th grade students *Audition required*

This course is for students with advanced knowledge of the fret board on the guitar. Students learn advanced concepts of right and left hand techniques with the guitar. The course teaches advanced reading skills, theory, and improvisational techniques. Development of musical ideas, composition, and improvisational styles will be examined. Classical and modern guitar literature in Western music will be examined. Emphasis is on proper form and technique development. Students are required to have a suitable guitar nylon string guitar. This is a performance class and after school rehearsals, performances, and concerts are required.

53.0140704 **Music Appreciation CP (S)**
Offered to 9th - 12th grade students

No music experience is needed for this class. This course will take students on a musical journey through time. Students will listen to many musical examples and study eras and major advancements in the history of music. Specific eras to be studied will include music from the Middle Ages through the Rock and Roll Era. Students will engage in daily discussions and listening sessions.

53.0210705 **Music Theory CP (S)**
Offered to 9th - 12th grade students with Department approval

Students study basic fundamentals of music theory (rhythm and meter, keys, harmonic analysis, aural recognition of intervals) on a more in-depth level than they would in a performance class. Students will also be introduced to composition techniques and analysis of musical form.

53.0000706 **Concert Band CP (S)**
Offered to 9th - 12th grade students *Audition/Interview required for new students*

This course is open to any student who has had at least one year of instruction on a brass, Woodwind, or percussion instrument. Focus will be on the development of concert technique including articulation, pitch, rhythm, phrasing, dynamics, and tone quality. Members are strongly encouraged to take private lessons. The group will perform select concert literature appropriate to the skill level of the group. The concert band typically performs at least one concert in the fall and one in the spring semester. The group may be required to rehearse after school in preparation for concerts.

53.0000710 **Concert Jazz Band CP (S)**
Offered to 9th - 12th grade students *Audition/Interview required for new students*

The Concert Jazz Band performs a variety of Jazz and Pop music literature. Instrumentation includes brass, woodwinds, electric guitar, electric bass guitar, upright double bass, drumset, and piano/keyboard. Jazz history along with observations of performances by various artists will be studied. Mandatory performances include the Spring Concert and scheduled outreach events. A few after-school rehearsals may be required.

53.0000707 **Marching Band-Wind Instrument CP (S)**
Offered to 9th - 12th grade students *Audition/Interview required for new students*

Students must have at least one year of instruction on a Brass or Woodwind instrument. Focus will be on development of marching and playing technique, and learning of marching repertoire. The Marching Band performs a half-time show at home football games. Performances at one or two away games may be scheduled. The group also participates at several mandatory marching band competitions as well as certain community events. Marching Band members are required to attend band camp and several late July and early August rehearsals. Members are also required to attend weekly after-school practices. The group also performs in the Christmas Concert.

53.0000708 **Marching Band-Percussion CP (S)**
Offered to 9th - 12th grade students *Audition/Interview required for new students*

Students must have at least one year of instruction on a percussion instrument. Focus will be on development of marching and playing technique, and learning of marching repertoire. The Marching Band performs a half-time show at home football games. Performances at one or two away games may be scheduled. The group also participates at several mandatory marching band competitions as well as certain community events. Marching Band members are required to attend band camp and several late July and early August rehearsals. Members are also required to attend weekly after-school practices. The group also performs in the Christmas Concert.

53.0000709

Symphonic Band CP (S)

Offered to 9th – 12th grade students

Audition/Interview required for new students

To be eligible for this course students must have be enrolled in marching band the first semester, unless otherwise decided by the band director. The symphonic band rehearses and performs intermediate to advanced literature. Members are encouraged to take private lessons. The group will perform in at least one concert second semester. The group will occasionally perform at the GMEA large group festival evaluation or another select event. The group may be required to rehearse after school in preparation for concerts.

53.0000700

Advanced Drumset Applications I CP (S)

Offered to 9th – 12th grade students

Audition/Interview required for new students

This course is open to students who have a minimum of one year drumset playing experience. Students must know some basics of reading drumset music notation. The focus of the class is the study of drumset rhythms, particularly in the idioms of jazz, pop, and world music (Latin, African, Caribbean). Students will learn material through dictation, listening examples, and hands-on drumset playing. If a student does not have a drumset at home, he/she must sign up to practice before or after school in the band room. The history of the drumset itself and significant performers in all genres will also be a focus of the class. This class does not perform in concert.

FOREIGN LANGUAGES

NOTICE CONCERNING HONORS, AP, AND OTHER UPPER LEVEL COURSES:

Teacher recommendations and discussion within the department will determine the final placement in all courses. The department will review all placements during the month of April to determine whether students have continued to demonstrate the ability, skills, work habits, and motivation that justified the original (February) placement. Appropriate adjustments will be made at that time. Students who wish to be considered for placement in an honors or an AP course typically are expected to have an A or B in the previous course both semesters, demonstrate interest in learning and exhibit behavior befitting work in an upper level course.

60.0110710

French I CP (Y)

Offered to 9th – 12th grade students

This introductory course in French language and culture is based on a multi-media approach. Real-life situations presented in authentic French help the student acquire high levels of communicative proficiency in various contexts as well as cultural awareness and appreciation. Technology is fully implemented and audio and print materials serve to build and reinforce listening comprehension, speaking, reading, and writing skills. The course is taught entirely in French.

60.0120711

French II CP (Y)

Offered to 9th – 12th grade students with Department approval

In this course the student continues his or her study of French on a more advanced level. Stress is placed on spoken proficiency in context while the student continues his or her appreciation of francophone cultures. Short informal and literary texts are introduced to teach both grammar and culture. Technology is fully implemented and audio and print materials serve to build and reinforce listening comprehension, speaking, reading and writing skills. The course is taught entirely in French.

60.0120731

French II H (Y)

Offered to 9th – 12th grade students with Department approval

The multi-media course continues the study of French language and culture on a more advanced level and at an accelerated pace. Students must exhibit enthusiasm for the study of French and a desire to communicate in French at all times during class. Emphasis is placed on communicative proficiency (listening, speaking and writing) as well as interpretive proficiency (reading); students engage in regular group discussions in French as well as routine oral interviews with the teacher. Technology is fully implemented and audio and print materials serve to build and reinforce listening comprehension, speaking, reading, and writing skills. The course is taught entirely in French.

60.0130712

French III CP (Y)

Offered to 10th – 12th grade students with Department approval

This is a culture-based course using practical vocabulary to discuss daily activities. Audio and print materials serve to reinforce listening and reading comprehension, as well as to provide practice for speaking and writing skills. Aspects of French culture are introduced through authentic documents and class activities. Each unit presents new grammar concepts that students use in the context of the new vocabulary. The course is taught entirely in French.

60.0130732

French III H (Y)

Offered to 10th – 12th grade students with Department approval

This is a culture-based course using practical vocabulary to discuss daily activities. Audio and print materials serve to reinforce listening, reading comprehension, and to increase writing proficiency. Each unit presents new grammar concepts that the students master through use in the context of the new vocabulary. The course is taught in French, and the students communicate in that language.

60.0140713

French IV CP (Y)

Offered to 11th and 12th grade students with Department approval

This is a culture-based course using practical vocabulary to discuss daily activities. Audio and print materials serve to reinforce listening, reading comprehension, and to increase writing proficiency. Each unit presents new grammar concepts that the students master through use in the context of the new vocabulary. The course is taught in French, and the students communicate in that language.

60.0140733

French IV H (Y)

Offered to 11th and 12th grade students with Department approval

This course addresses the needs of advanced students of French. It is a comprehensive, multiple-approach course that provides an in-depth view of France, its culture and civilization by means of a systematic introduction to French history and literature. Grammar previously studied is reviewed and expanded upon with a view to strengthening the students' language skills. This course is a prerequisite for students who wish to enroll in the AP French course.

60.0170743

Advanced Placement French Language (Y)

Offered to 11th and 12th grade students with Department approval

This course is designed for self-motivated students committed to serious study in French. A prescribed course of study including advanced grammar topics, advanced listening comprehension exercises, advanced reading comprehension exercises, and advanced spoken practice will be presented in order to prepare the student for the Advanced Placement Exam. All students are required to take the AP exam. College credit may be awarded on the basis of the evaluation and the particular colleges' or universities' policies.

NOTICE CONCERNING NATIVE SPEAKERS:

Students whose native language is not English may not be allowed to enroll in beginning level foreign language courses in their native language. A student is considered a native speaker if one of the following is true:

1. The foreign language is a common means of communication at home.
2. The student has lived and studied in the foreign country where the language is spoken (including military bases) for at least three consecutive years within the last five years and the student exhibits native or near native fluency in the language.

St. Pius X offers Spanish for native Speakers Accelerated and Spanish for Spanish Speakers II for our native speakers. Students may be asked to take a placement exam and/or submit to an oral interview to determine their proficiency in the foreign language. Final decision on placement of native speakers will be determined by the St. Pius X Foreign Language Department.

60.0790712

Spanish for Native Speakers Accelerated CP (Y)

Prerequisite - Department approval

This course is taught in Spanish using a communicative language approach. The course is designed for students whose principal language at home is Spanish or Spanish/English and who can demonstrate being bilingual in both Spanish and English. The linguistic goals include vocabulary acquisition, improvement in writing, reading fluency and enhancement of formal communicative skills.

60.0791719

Spanish for Spanish Speakers II CP (Y)

Prerequisite - Department approval

A continuation of Spanish for Spanish Speakers I, this course is taught entirely in Spanish. This advanced grammar review course will enable the students to write and spell correctly in Spanish. Students will be required to read in Spanish. This course will be offered in the fall of 2011.

60.0710714

Spanish I CP (Y)

Offered to 9th – 12th grade students

Using a communicative language approach, this course is an introduction to Spanish vocabulary, grammar and syntax. A variety of methods and materials are used to provide cultural awareness and to build elementary reading and writing skills. Using a conversational approach, emphasis is placed on building listening and speaking skills in Spanish. The course is taught mostly in Spanish. Students who earn a D in the first year of the language are strongly urged to undertake some form of review over the course of the summer.

60.0710724

Spanish I CP (Y)

Offered to 10th and 11th grade students with Department approval

Using a communicative language approach, this course is an introduction to Spanish vocabulary, syntax and grammar. Focus is placed on listening comprehension and speaking. A variety of teaching methods will be used in order to accommodate different learning styles. This course is taught mostly in Spanish.

60.0720715

Spanish II CP (Y)

Offered to 9th – 12th grade students with Department approval

Using a communicative language approach, this course continues a more thorough study of Spanish. The study of syntax, grammar and vocabulary continues with particular emphasis placed on reading, writing and conversational skills. A variety of methods and materials are used to enhance these skills and to cover specific cultural topics. The course is taught in Spanish.

60.0720725

Spanish II CP (Y)

Offered to 11th and 12th grade students with Department approval

Using a communicative language approach, this course continues to develop skills acquired in the preceding course. Emphasis is given to speaking and listening comprehension skills as well as writing skills. A variety of teaching methods will be used in order to accommodate different learning styles. This course is taught in Spanish.

60.0720735

Spanish II H (Y)

Offered to 10th - 12th grade with Department approval

Using a communicative language approach, this course continues a more thorough study of Spanish. The study of advanced vocabulary, syntax and grammar continues with particular emphasis placed on reading and writing and a special emphasis on conversational skills. A variety of methods and materials are used to enhance these skills as well as to cover specific cultural topics. The course is taught in Spanish.

60.0730716

Spanish III CP (Y)

Prerequisite - Spanish II CP (60.0720715)

Offered to 10th – 12th grade with Department approval

Using a communicative language approach, this course focuses on the development of conversational skills. Grammar is taught only as a vehicle for building basic communication skills in speaking and writing. A variety of materials including text, magazines, and video are used to achieve language proficiency. The course is taught in Spanish.

60.0730726

Spanish III CP (Y)

Offered to 12th grade students with Department approval

Using a communicative language approach, this course emphasizes speaking and listening comprehension skills as well as writing skills. A variety of teaching methods will be used in order to accommodate different learning styles. Students who have completed Spanish II CP (60.020715) or Honors level may not take this course. This course is taught in Spanish.

60.0730738

Spanish III H (Y)

Offered to 11th – 12th grade with Department approval

Using a communicative language approach, this course is geared toward the advanced language student. The emphasis is on building proficiency in all areas, reading, writing, listening and special emphasis on speaking. Second semester includes material designed to help students prepare for college placement tests. A variety of methods and advanced materials are used to further cultural insight and appreciation. The course is taught in Spanish.

60.0740717

Spanish IV CP (Y)

Offered to 11th – 12th grade with Department approval

Using a communicative language approach, this course is designed to develop advanced communicative skills and language literacy. A variety of materials is used to build communication in writing and speaking. This class is taught in Spanish.

60.0740737

Spanish IV H (Y)

Offered to 11th – 12th grade with Department approval

Using a communicative language approach, this course is designed to provide practice in advanced grammatical concepts and advanced communicative skills and language literacy. A variety of materials are used to achieve an advanced level of written and oral proficiency. This course is taught in Spanish. This course is a prerequisite for AP Spanish.

60.0770740

Advanced Placement Spanish Language (Y)

Prerequisite - Spanish IV H or Department Approval

This course is designed for self-motivated students committed to serious study in Spanish. A prescribed course of study including advanced grammar topics, listening comprehension exercises, comprehension exercises, and written and spoken practice will prepare the student for the Advanced Placement Exam. All students are required to take the AP exam. College credit may be awarded on the basis of the evaluation and the particular colleges' or universities' policies.

61.0410711 **Latin I CP (Y)**
Offered to 9th – 12th grade students

This course is an introduction to the Latin language and Roman culture. Students learn Latin using a reading comprehension approach and study the influences of the language and ancient Roman culture on later civilizations. Culture, vocabulary, derivatives, phrases and prefixes, mythology and other elements of the Roman world and Latin language are also covered throughout the year.

61.0420716 **Latin II CP (Y)**
Offered to 10th – 12th grade students

Using a reading comprehension approach, students continue their studies of the Latin language and ancient Roman culture. Students build upon skills and knowledge from Latin I and continue their studies of vocabulary, derivatives, phrases, and prefixes, mythology and other elements of the Roman world and Latin language throughout the year.

61.0430733 **Latin III H (Y)**
Offered to 11th and 12th grade students with Department approval

Using a reading comprehension approach, students continue their studies of the Latin language and ancient Roman culture. Students then are introduced to more advanced Latin through the study of classical writers. The course is designed for students who are able to progress more rapidly. Students begin more in-depth study of Roman history and begin reading ancient Roman authors. This course serves as a transition to Latin IV and more extensive study of classical Latin literature.

61.0440734 **Latin IV H (Y)**
Offered to 11th and 12th grade students with Department approval

This course is designed for students who wish to pursue their advanced readings in classical Latin literature. Students will continue their studies of the Latin language and ancient Roman culture through the reading comprehension approach and continue the reading and translation of Latin authors and poets. The course offers students the opportunity to study the ancient works of writers such as Catullus, Ovid, Vergil and Cicero, as well as obtain a more in-depth knowledge of Roman history. The studies of original Latin literature are supplemented with comparisons to later literature in English as a means of studying how the ancient writers influenced other authors.

GUIDANCE RELATED

99.0000789	Freshman Study Support (Y)
99.0000790	Sophomore Study Support (Y)
99.0000791	Junior Study Support (Y)
99.0000792	Senior Study Support (Y)

Study Support provides a variety of assistance to students including tutoring and helping with monitoring academic progress. Placement in this program is based on assessment of student needs by the Guidance Department. Students in study support meet one period per day; no credit is awarded.

MATHEMATICS

27.0610711 **Algebra I CP (Y)**

27.0610721 **Algebra I CP (Y)**

27.0610731 **Algebra I H (Y)**

Required of 9th grade students with Department approval

In Algebra I CP students learn to add, subtract, multiply and divide polynomials and radical expressions. The students apply these skills to solve linear equations, systems of linear equations and quadratic equations. Additional topics include graphing in the coordinate plane and solving word problems.

27.0630712 **Geometry CP (Y)**

27.0630722 **Geometry CP (Y)**

Required of 9th and 10th grade students with Department approval

Problems and proofs are used in the study of congruent triangles, similar figures, parallel lines, circles, area, volume, the coordinate plane and polygons. Goals of the course include improvement in logical thinking skills and a deeper appreciation of mathematical structure.

27.0630732 **Geometry H (Y)**

Required of 9th and 10th grade students with Department approval

Honors Geometry is a course for students who have a deeper sense of logical development. The course uses deductive proofs and problems to study the coordinate plane, congruent triangles, similar figures, parallel lines, circles, area, volume and polygons.

27.0640713 **Algebra II CP (Y)**

27.0640725 **Algebra II CP (Y)**

Required of 10th and 11th grade students with Department approval

Radicals, linear and quadratic equations, the coordinate plane, right triangle trigonometry, systems of equations, complex numbers, functions and many word problems of different types are presented.

27.0650733 **Algebra II/Trigonometry H (Y)**

Required of 10th and 11th grade students with Department approval

Radicals, linear and quadratic equations, the coordinate plane, right triangle trigonometry, systems of equations, complex numbers, functions and many word problems of different types are presented. In addition, word problems of a more difficult nature are studied. Other topics covered include conic sections, logarithms and trigonometry.

27.0661714 **Algebra III/Trigonometry CP (Y)**

Required of 12th grade students with Department approval

This course consists of a review of radicals, logarithms, linear and quadratic equations and complex numbers. Other topics include trigonometry and preparation for the SAT.

27.0661726 **Algebra III CP (Y)**

Required of 12th grade students with Department approval

This course consists of a review of selected topics from Algebra and Geometry, preparation for the SAT and brief studies of topics that include probability and statistics, linear programming, matrices, logarithms, sequences and series, and right triangle trigonometry. Only students who have completed 27.0640725 are eligible for this course.

27.0670715 **Analysis CP (Y)**

Required of 11th and 12th grade students with Department approval

Students in Analysis (Precalculus) continue to study the higher-level math skills needed for Calculus in college. These include trigonometry, logarithmic and exponential functions, conic sections, sequences and series, polynomial functions and vectors.

27.0670735

Analysis H (Y)

Required of 11th and 12th grade students with Department approval

Advanced Analysis (Precalculus) is designed to review the higher-level math skills in preparation for Calculus in college. These include trigonometry, logarithmic and exponential functions, quadratic equations, and matrices. Some new topics include the study of polynomial functions, vectors, and polar coordinates.

27.0710736

Calculus H (Y)

Required of 11th and 12th grade students with Department approval

Calculus is an advanced study of functions, limits and differentials with application in maxima and minima problems, area and volume, differential equations and numerical methods of equation solving.

27.0720746

Advanced Placement Calculus AB (Y)

Required of 12th grade students with Department approval *Prerequisite – Honors Analysis*

AP Calculus AB is an advanced study of functions, limits and differentials with application in maxima and minima problems, area and volume, differential equations and numerical methods of equation solving. All students are required to take the AP exam.

27.0730747

Advanced Placement Calculus BC (Y)

Required of 12th grade students with Department approval *Prerequisite – Honors Analysis*

AP Calculus BC covers all the topics of AP Calculus AB as well as vector valued functions, polar coordinates, and sequences and series. All students are required to take the AP exam.

27.0750737

Advanced Calculus H (Y)

Offered to selected students who have completed BC Calculus with Department approval

Advanced Calculus is an advanced study of multivariable functions and vector functions. Partial derivatives and gradients are used in maxima and minima problems. Multiple integrals, line integrals and surface integrals are used to find work area and volume.

27.0510710

Statistics CP (Y)

Required of 11th and 12th grade students with Department approval

Statistics CP is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics include mean, standard deviation, z-scores, correlation, regression, hypothesis testing, t-tests, analysis of variance, and construction of confidence intervals. Heavy emphasis is placed on the use of calculators and computers.

27.0740740

Advanced Placement Statistics (Y)

Required of 10th, 11th, and 12th grade students with Department approval

The AP Statistics course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics include mean, standard deviation, z-scores, correlation, regression, hypothesis testing, t-tests, analysis of variance, and construction of confidence intervals. Heavy emphasis is placed on the use of calculators and computers. All students are required to take the AP exam.

PHYSICAL EDUCATION AND HEALTH

36.0510701 Personal Fitness CP (S)

Required once of all students in grades 9 - 12

This is an introductory course in which the students learn the fundamental concepts of physical fitness and motor skills. The students learn through observation, practice and test evaluations to assess and improve their current level of physical fitness. Emphasis is placed on cardiovascular endurance development. By the end of the semester the students are able to plan an individual fitness program that includes strength, flexibility, endurance and nutrition.

17.0110703 Health CP (S)

Required of 9th grade students

All ninth grade students are required to take this course. Emphasis is placed on providing students with a wide variety of learning experiences on health-related topics. As a result of these experiences, students should be motivated to shape attitudes and conduct to maintain a high level of lifetime wellness. In cooperation with the Guidance Department, "Life Choices" is offered once a week for four weeks during the health class.

36.0220702 Lifetime Sports CP (S)

Offered to 10th - 12th grade students

Prerequisite – Personal Fitness

This course is designed to introduce students to various lifetime sports. Students are provided the opportunity to learn the history, rules, regulations, etiquette, strategy and basic motor skills of each activity. The emphasis is placed on teaching and improving motor skills unique to each individual or dual sport. The course may be taken a second time for credit.

36.0210703 Team Sports CP (S)

Offered to 10th - 12th grade students

Prerequisite – Personal Fitness

This course is designed to introduce students to various team sports. Students are offered the opportunity to learn the history, rules, terminology, strategy and basic skills of each sport covered during the course. Throughout the semester, students will assume the role of the coach, the official, and the player. Careers associated with sports as well as ethical issues involving sports will also be discussed. The course may be taken a second time for credit.

36.0540707 Girls' Weight Training CP (S)

36.0540708 Boys' Weight Training CP (S)

Offered to 10th - 12th grade students

*Prerequisite – Personal Fitness
Department approval required*

This course is designed for the student interested in weight training. Students will learn the location and function of the major muscles, the lifts that best develop these muscles, and various types of workouts. An emphasis is placed on learning and using proper techniques and body development.

SCIENCE

All students are required to take Biology, Chemistry, and one physical science (Physical Science or Physics). Georgia requires 4 years of science for graduation. This can be either a life or physical science.

Life Sciences

26.0120711 **Biology CP (Y)**
26.0120722

Required for graduation

This is an introductory biology course in which students examine aspects of human activity, evolutionary history, structure, function, and behavior relationships to the environment and the molecular structure on which life is based. The focus of the course is designed to foster scientific thinking skills, reasoned approaches to problem solving, and an appreciation of the role science plays in the students' daily lives. Students keep a biology notebook, write lab reports based on laboratory experiences, read science articles and work independently. In addition, students use classroom computers to search the Internet on biological topics and to enhance laboratory experiments.

26.0140741 **Advanced Placement Biology (Y)**
Department approval required

Prerequisite - Chemistry

This course is an introductory biology course that covers molecular and cellular biology, heredity, evolution, organisms, and populations. Students develop a conceptual framework for modern biology and gain an appreciation of biological science as a process. Themes of energy transfer, structure and function, regulation and interdependence are emphasized through reading and laboratory work. Students are expected to be able to read and study a college text independently. Keeping up with independent reading and study should take at least one hour a night. The course is scheduled for 1½ periods a day to provide time for course and laboratory work. Students are required to take the Advanced Placement examination in May.

26.0730716 **Anatomy and Physiology CP (Y)**
Offered to 11th and 12th grade students with Department approval

This is an introductory course in human anatomy and physiology, which presents a comprehensive study of the human body and lays a solid foundation for the pursuit of careers in the health industry. This course introduces students to anatomical language, a brief historical overview of anatomy and physiology as a discipline, a general overview of the structure and functions of the major organ systems and aspects of clinical implications relating to dysfunctions of the human body. Practical assignments are an important aspect of this course. Working in small groups, students use dissection and multimedia software to study the organ systems of a vertebrate, as well as the anatomical features of cells, tissues, bones, muscles, and the brain. Simple experiments on the physiology of cells also aid the understanding of this topic. A research paper and presentation is part of the second semester activities. Students also continue to develop scientific skills and techniques including note taking, collecting and analyzing data, and writing lab reports and essays. Computer skills are utilized in the areas of research, composition of papers and review of concepts.

26.0000717 **Marine Biology CP (Y)**
Offered to 12th grade students with Department approval

Marine Biology is designed to provide a stimulating, up-to-date survey of marine biology while integrating the basic science background required for an introductory course. The approach demonstrates the relevance of physical science to marine biology and thus integrates the two branches of science. This course provides a global, non-regional view of the world's oceans that is integrated throughout the material. Using current research, students will report on the influence of human intervention on the marine environment and the effect on communities and the non-living elements of the ecosystem. Content and skill are evaluated on the basis of written tests, quizzes, homework assignments, and laboratory reports. In addition, students regularly research a topic of interest from the current literature and report to the class on the journal articles. In the field, they are evaluated on their observation and data gathering.

26.0710718 **Zoology CP (Y)**
Offered to 11th grade students with Department approval

Zoology is organized into three parts. Part One covers common life processes, including cell and tissue structure and function, genetics aspects of evolution, and the ecological principles that unify all living organisms. Part Two includes a survey of protists and all major animal phyla, including a discussion of evolutionary and ecological relationships. It will also discuss the newest animal adaptations. Part Three highlights animal form and function that depicts evolutionary

changes in structure and function of selected organ systems. The class will include science process skill and laboratory safety ad investigations. Biology and Chemistry are prerequisites to the class on Zoology.

Physical Sciences

40.0110712 **Physical Science CP (Y)**
9th and 10th grade students with Department approval

Physical Science is an introductory laboratory course in the basic concepts and skills of chemistry and physics. During the first semester, students study states of matter, structure of atoms, the Periodic Table, chemical bonding, formula writing, and chemical reactions. Second semester covers solutions, acids and bases, motion, force, work and energy, waves, and sound and light. In addition, students acquire laboratory computer skills that prepare them for success in future science courses.

40.0510713 **Chemistry CP (Y)**
40.0510725
Required for graduation and offered to some 9th grade students with Department approval

This traditional course in chemistry uses laboratory activities to reinforce a study of atomic theory, periodicity, bonding, chemical reactions and the primary states of matter. Students use mathematical skills to analyze quantitative data and to solve problems in chemistry. Emphasis is placed on developing problem solving skills, a disciplined approach to study, and skills in writing reports. Students use classroom computers to write laboratory reports.

40.0510733 **Chemistry H (Y)**
Department approval required

In this course students will learn and apply chemistry principles, concepts, and operations. Students must think logically and abstractly, and use math reasoning to analyze, synthesize, and evaluate laboratory activities. The basic tools of chemistry - mathematics, equations, and the mole concept - are introduced early and used frequently. Students must be proficient in algebra and in analytical problem solving. Computer usage is integrated into this course through writing lab reports. Working independently, students will learn through reading the text, experimentation, observation and problem solving.

40.0530743 **Advanced Placement Chemistry (Y)**
Offered to 11th and 12th grade students with Department approval

Students who have already completed an introductory chemistry course learn and apply the basic principles, concepts, and operations of college chemistry. Topics include atomic theory, bonding, periodicity, acid-base chemistry, oxidation-reduction, equilibrium and thermodynamics. Students use computers to collect data, maintain a lab notebook, and use scientific calculators to solve problems. The course meets for 1 ½ periods each day with class preparation time at least one hour a night. Students are required to take the Advanced Placement examination in May.

40.0810714 **Conceptual Physics CP (Y)** *Prerequisite –Biology, Chemistry, and Algebra II*
40.0810715 **Physics CP (Y)** *Prerequisite – Biology, Chemistry, Algebra II/Trig or Analysis*
Offered to 11th and 12th grade students with Department approval

This is an introductory college preparatory course in physics. Emphasis is placed on learning and understanding the principles and concepts of physics as well as the solution of problems. Students apply these concepts in laboratory activities, which include the use of computers in analyzing the collected data. Students are required to write detailed lab reports on these activities. Students are also required to use the concepts learned to construct a physics project each semester. In problem solving, students use their skills in algebra or trigonometry, vector analysis and graphing.

40.0840745 **Advanced Placement Physics C (Mechanics) (Y)**
Offered to 11th and 12th grade students with Department approval

The Physics C course ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. The subject matter of the C course is *mechanics*. The sequence is parallel to or preceded by mathematics courses that include calculus. Methods of calculus are used wherever appropriate in formulating physical principles and in applying them to physical problems. Students will be expected to design experiments, observe and measure real phenomena, organize, display, and critically analyze data, determine uncertainties in measurement, draw inferences from observations and data, and communicate results, including suggested ways to improve experiments and proposed questions for further study. This course is scheduled for 1 1/2 periods to provide time for sufficient laboratory experience. Students should anticipate an average of 1 hour of homework per night and they are required to take the Advanced Placement Physics C examination in May.

SOCIAL STUDIES

45.0710714 **Geography CP (S)**
Required of some 9th grade students

This course is designed to give students a greater understanding and appreciation of the world through cultural, political, environmental, economic, spatial, and physical geography. Each perspective is defined and exemplified through case studies from a variety of world regions. This course is also designed to help students develop better note-taking, library research, writing and analytical thinking skills. Writing and research assignments will focus on paragraph development and essay construction through the evaluation of primary and secondary sources. Students will be introduced to Chicago format. All students signed up for this course will automatically be scheduled for a semester of Ancient Civilizations.

45.0000715 **Ancient Civilizations CP (S)**
Required of some 9th grade students

This is a semester survey course of the people and nations of both western and non-western civilizations. Emphasis will be placed on tracing the developments of civilizations and the interactions among those civilizations from Prehistory to approximately the 1500's. This course is also designed to help students continue to develop note-taking, library research, writing and analytical thinking skills. Writing and research assignments will focus on paragraph development and essay construction through the evaluation of primary and secondary sources and require the use of Chicago format.

45.0120719 **Current Issues and Political Speech CP (S)**
Offered to 9th – 11th grade students

This course analyzes current social and political issues and events and invites students to critically evaluate those issues. Rather than traditional written evaluation, students are taught various speaking styles such as extemporaneous speaking, oration, and debate. Students are required to convey understanding and analysis of those issues using oral delivery skills.

45.0830710 **World History CP (Y)**
45.0830724

Required of 10th grade students

This course is a survey course of people and nations of both western and non-western civilizations. Emphasis will be placed on tracing the political, social, cultural, and economic heritage of civilizations from approximately 1000 C.E. (Common Era) to the present. Writing and research assignments first semester will focus on essay construction through evaluation of primary and secondary sources. During second semester, a major research paper using Chicago format is required.

45.0811740 **Advanced Placement World History (Y)**
Required of 10th grade students with Department approval

The content of this course will emphasize a more global, non-western approach to World History by tracing the development of civilizations and the interactions among people in those civilizations from approximately 1000 C.E. (Common Era) to the present. Considerable time will be devoted to helping students develop their analytical and writing skills through the evaluation of primary and secondary sources. A major research paper in Chicago format is required. All course requirements are intended to prepare the student to take the Advanced Placement World History Exam for possible college credit. Students should anticipate an average of 1 hour of homework per night and they are required to take the AP examination in May.

45.0810711 **United States History CP (Y)**
45.0810725

Required of 11th grade students

This course is a survey of the most significant periods in American history from the Period of Colonization to the present. The intent of this course is to increase knowledge, awareness, and appreciation of America's domestic and foreign affairs. A major research paper in Chicago format is required.

45.0820741 **Advanced Placement United States History (Y)**
Required of 11th grade students with Department approval

This course is a survey of the most significant periods in American history from the Age of Discovery to the present. The student who enrolls in this course should have a strong background in research and writing skills as this course will make extensive use of primary and secondary sources and will require numerous essay assignments. A seminar approach is used to discuss major themes and historical figures in our nation's history. The students participate in simulations and debate throughout the year and write a research paper during the second semester. All course requirements are intended to prepare the student to take the Advanced Placement American History Exam for college credit. Students should anticipate an average of 1 hour of homework per night and they are required to take the AP exam in May.

45.0570712 **American Government: The Political Process CP (S)**
45.0570726

Required of 12th grade students and offered to 11th grade students with Department approval

This course is designed as a basis of study about how the American political system works. There is an extensive examination of the Constitution as well as of the legislative, executive, and judicial branches of government. Citizenship rights and responsibilities are emphasized, and the policy-making process is explored in depth. The students examine how a government is the resolution of conflicts in a way that enhances a nation's values and purposes.

45.0530742 **Advanced Placement Government and Politics: Comparative (S)**
Required of 12th grade students with Department approval

This course is designed to provide an advanced and detailed treatment of the government and politics of six major countries of the world: Britain, Russia, China, Mexico, Nigeria, and Iran. The six are the countries commonly covered in college-level introductory comparative politics courses and required for the AP Comparative Politics exam. Emphasis will be placed on the intellectual underpinnings of different political systems including influences on the structure and policy-making process of each country. Additional examination of other countries is also included to provide an understanding of the political implications of different levels of economic development. The course employs an advanced textbook and additional supplemental reading as necessary. The course is additionally designed to provide the tools necessary for success on the AP examination. Students should anticipate an average of 1 hour of homework per night and they are required to take the AP exam in May.

45.0520743 **Advanced Placement American Government and Politics: United States (S)**
Required of 12th grade students with Department approval

This course is designed to provide an advanced and detailed treatment of government and politics. Emphasis will be placed on the intellectual underpinnings of democracy, the development of our constitution, the institutions of government, influences on the policy-making process, civil rights and civil liberties. An examination of the national branches of government is also provided. The course employs an advanced textbook, a reader, and additional supplemental readings as necessary. The course is additionally designed to provide the tools necessary for success on the AP examination. Students should anticipate an average of 1 hour of homework per night and they are required to take the AP exam in May.

45.0630744 **Advanced Placement Microeconomics (S)**
Required of 12th grade students with Department approval

This course is designed for the student interested in obtaining college credit in Microeconomics. The basic concepts of supply, demand, and elasticity as well as specific micro concepts such as markets, business organization, pricing theory, and marginal analysis are emphasized. The students will experience a variety of activities and use technology to enhance their studies. Students should anticipate an average of 1 hour of homework per night and they are required to take the AP exam in May.

45.0620745 **Advanced Placement Macroeconomics (S)**
Required of 12th grade students with Department approval

This course is designed for the student interested in obtaining college credit in Macroeconomics. The basic concepts of supply, demand, and elasticity as well as specific macro concepts such as trade, fiscal policy, monetary policy, and supply

side theory will be covered. Students should anticipate an average of 1 hour of homework per night and they are required to take the AP exam in May.

45.0610713 Economics CP (S)

45.0610727

Required of 12th grade students - Offered to 11th grade students with Department approval

The purpose of this course is to promote the mastery of basic economic concepts. Students are encouraged to develop critical thinking and problem solving behaviors through participation in market simulations, model-building and evaluation, and examination of real-world case studies.

45.0840746 Advanced Placement Modern European History (Y)

Offered to 12th grade students with Department approval

This course is designed for the student interested in obtaining college credit by taking the Advanced Placement Examination in European History. The course consists of extensive research activities, additional reading assignments outside of the text, and a seminar approach to the material covered. In the first semester the students survey basic topics in modern Europe from the Middle Ages to the Age of Revolution. The second semester is a survey of basic topics in modern Europe from the Age of Revolution to the present. Incorporated in this survey are an examination of the institutions that have recently developed in Europe, Europe's progress toward economic unity, and the effects of East-West conflicts on its history. Students should anticipate an average of 1 hour of homework per night and they are required to take the AP exam in May.

45.0000718 History and the Holocaust CP (S)

Offered to 12th grade students with Department approval

This course seeks to examine the history of genocide and racial purity of the 20th Century as it relates to human behavior. Emphasis will be placed on the events leading up to the rise of Hitler and the plight of European Jewry from 1933-1945. The course also assesses the church's response and treatment of the events of the Holocaust.

45.0310716 Sociology CP (S)

Offered to 11th and 12th grade students

This course is designed for the student who would like to gain an understanding of human society through the study of social systems, their structures and their processes. There is an emphasis on social groups and social interaction as well as a look at social problems and alternative solutions. A naturalistic observation and analysis is required of all students. Writing and research assignments will incorporate APA style.

45.0150717 Psychology CP (S)

Offered to 11th and 12th grade students

In this course the student is introduced to the scientific analysis of human behavior. Students learn to differentiate and discuss theories of learning, personality, development, mental illness and therapy. Students also study human motivations, emotions, and group psychology. Writing and research assignments will incorporate APA style.

45.0160747 Advanced Placement Psychology (Y)

Offered to 12th grade students with Department approval

This course is designed for the student interested in obtaining college credit by taking the Advanced Placement Examination in Psychology. The course consists of a systematic and scientific approach to the study of behavioral processes. After a brief overview of the scientific method and statistical approach to studying psychology and a look at the historical development of psychology, topics to be examined are the biological base of behavior as it relates to perception, sensation, memory language and thinking, states of consciousness and motivation and emotion. Other topics to be included are learning, personality, intelligence, development, stress, psychological disorders and treatment. The course uses a college text and numerous outside articles. During second semester, the students carry out scientific research in groups modeled on the IRB method used in college research. All writing and research assignments will incorporate APA style. Students should anticipate an average of 1 hour of homework per night and they are required to take the AP exam in May.

THEOLOGY

Works of Mercy Requirements: All students will have the opportunity for Christian growth and development of Catholic values. Students must complete 5 Apostolic Projects per year. Each project must be no less than 2 hours in length. Of the 5 projects at least 3 must be from the Works of Mercy list found on the spx.org web site. The remaining 2 projects are the choice of the student, but must be approved by Campus Ministry. Failure to meet the requirements of the program will be reflected in a 10 point deduction from the second semester Theology grade. In addition, seniors who do not complete the requirement will not be allowed to walk at Graduation. Freshmen, sophomores, and juniors who do not complete the requirement will not be allowed to be out of uniform on any day for the following school year.

99.0000702 **Survey of Catholic Christianity CP (Y)**
Optional selection for 9th grade students

This course is an overview of the Catholic Church through the lens of history and Church Tradition. It is intended for students who have not had religion presented as a curriculum course or who have not attended a parish program after fifth grade (middle school). The goal of the course is to share the richness of our 2000 year old faith and the working of the Holy Spirit through Church Tradition. Topics will include: Understanding the Catholic Mass, the seven sacraments as the life of the Church, Tradition and Scripture, and the Church structure.

99.0000704 **Basics of Catholicism CP (Y)**
Required of 9th grade students

This course provides an objective survey of basic beliefs and faith in God. It presents key concepts in order to provide a common vocabulary, which will make future religion courses more understandable. The complete course represents Catholic dogma and doctrine regarding the Trinity, Scripture, as well as our sacramental and moral life in Christ. The second part of the course, taught in the spring, provides an in depth examination of our moral life by focusing on the call to holiness accomplished through a positive understanding on the Ten Commandments and the Beatitudes.

99.0000706 **Hebrew Scriptures CP (S)**
Required of 10th grade students

This course involves historical and theological overviews of the Hebrew Bible. The course is a study of the People of the Covenant and their relationship with God. Themes covered include creation, the patriarchs, the Mosaic Law, the rise and fall of the Kingdom of Israel, the prophets, worship and sacrifice. The course teaches students that the Hebrew Scriptures are the biblical roots of Christianity. The course approaches the teaching and interpretation of Scripture from the *Catechism of the Catholic Church*.

99.0000709 **Christian Testament CP (S)**
Required of 10th grade students

The Church's understanding of Jesus is at the heart of everything that Catholics believe in, do, and are, as persons of faith. The Christian Testament together with the living faith tradition of the Church provide the basis for the Catholic Christian Faith. This course teaches the scriptural roots of our faith as found in the Gospels, Acts of the Apostles and letters of Paul. This course also invites the students to grow in their love and understanding of the Christian Testament and of Jesus Christ of History who is also the Christ of Faith.

99.0000717 **Church History CP (Y)**
Required of 11th grade students

This course is designed to give students an insight into the institutional expression of faith and to show how that expression has grown and developed through history. Special emphasis is given to the people and events that have shaped the community of believers through the centuries. The first semester covers history to the Reformation in Europe. Second semester will begin with the Reformation and will pay particular attention to the Catholic Church in the United States. There will also be a survey of expressions of Christianity that developed in the United States. The course will conclude with a unit on contributions of Catholicism to Western culture.

99.0000723

Apologetics and Life Ethics CP (S)

Required of 12th grade students

Apologetics is the part of theology which explains what believers think and how they act in the world on those beliefs. This component seeks to help students understand the reasonableness of faith. By using the tools of philosophy and story telling, students come to know the plausibility of faith. The Life Ethics component explores contemporary issues such as abortion, euthanasia, and scientific advances, in light of Catholic teaching concerning the dignity of human life.

99.0000724

Social Justice: Catholic Social Teaching and Christian Vocations CP (S)

Required of 12th grade students

This course examines how we live God's plans with others. It takes into account that what we do as individuals affects the world around us. The course also examines the roots of justice in Scriptures and in Vatican documents. The Christian Vocations component addresses God's plan for each of us. It helps students consider how they are people of faith in the world. Students will examine how they might discern God's plan and respond to God's call in their lives.