



ST. PIUS X HIGH SCHOOL
Dominican Sisters of Houston ★ 1956

2018-19 Course Catalog
Table of Contents

Graduation Requirements	2
Required Courses	2
College Preparatory Courses	2
Grade Point Values	3
Honors Courses	3
Theology	4
English	7
English Language Arts/Communication	10
Foreign Language	13
Mathematics	16
Science	19
Social Studies	23
Fine Arts	27
Business	34
Computer Science	35
Physical Education	37

The Curriculum

ST. PIUS X HIGH SCHOOL GRADUATION REQUIREMENTS

Students must meet the following requirements of 26 units of credit for graduation from St. Pius X High School:

Theology	4 units
English	4 units
Mathematics	4 units
Science	4 units
Social Studies	3.5 units
Economics	1/2 unit
Foreign Language	2 units
Physical Education	1 1/2 units
Communications	1/2 unit
Health	1/2 unit
Christian Service	1/2 unit
Fine Arts	1 unit

Students carry a 6 to 7-unit program each year.

Program of Studies

FRESHMAN/WOMAN

Theology I
English I/Honors English I
Mathematics
Biology/Honors Biology
Health/Communications
Foreign Language I or Reading I
Ancient World History and Geography/Hon. Ancient World History and Geography

SOPHOMORE

Theology II
English II/Honors English II
Mathematics
Science
Foreign Language II or Reading II
Modern World History and Geography/Hon. Modern World History and Geography
P.E./Athletics/Drill Team/Cheerleading/Band .5 unit
Fine Arts .5 unit

JUNIOR

Morality/Social Justice
 English III/AP English III
 Mathematics
 Science
 U.S. History/AP U.S. History
 Fine Arts.5 unit
 Electives1.5 units

SENIOR

Theology Electives (2) 1 unit
 English IV/AP English IV/Dual Credit English
 Government/Economics (Reg./Honors/AP)
 Mathematics
 Science
 Electives 2 units

Course offerings are divided into two categories: Honors and College Preparatory. These groupings are the basis for grade point values. St. Pius X High School is a non-ranking school. Students in the top 10% of their class will be notified of their standing and colleges and universities will be provided this information.

GRADE POINT VALUES

GRADE	HONORS/AP	COLLEGE PREPARATORY
A – Excellent	5.0	4.0
B – Above average	4.0	3.0
C – Average	3.0	2.0
D – Below average	2.0	1.0
F – Fail	0.0	0.0

HONORS COURSES

Honors English I-II
 AP English III-IV
 Honors Biology, Honors Chemistry, AP Physics
 AP Biology, AP Chemistry
 AP Govt. /Honors Economics
 AP U.S. History, Honors Ancient World History, Honors Modern World History
 Foreign Language 303, 304, 313, 325, 329, AP Latin, AP Spanish, AP French
 Mathematics 406, 411, 423, 435, 440, 445, AP Calculus AB, AP Calculus BC, AP Statistics
 Computer Science II, AP Computer Science

College Preparatory Courses

All courses not listed under Honors are considered college preparatory level and carry academic grade point value.

THEOLOGY

TH 112 Theology I:	<u>Revelation and Scripture</u>	1/2 credit fall —Freshman/woman
CONTENT:	The first semester of Theology I provides an introduction to divine revelation found in Scripture and the role of the Church in handing this on. While the focus is on the Old Testament, the course also contains the essential content of the Gospels and introduces basic Church documents. The course includes local units on the SPX Mission and human sexuality/adolescent life.	
LENGTH OF COURSE:	One semester	
CONTENT:	<u>Jesus' Mission and Ministry</u>	1/2 credit spring—Freshman/woman
LENGTH OF COURSE:	The second semester course examines the essential content of the Gospels – the life and ministry of Jesus and the Paschal Mystery. The course is designed to uncover Jesus' mission and ministry while emphasizing His teaching about God the Father, the Trinity, Mary, and the Holy Spirit.	
LENGTH OF COURSE:	One semester	
TH 122 Theology II	<u>Jesus Christ-Redeemer</u>	1/2 credit - fall - sophomore
CONTENT:	This course is a survey which uses Scripture to help students understand the divine place of salvation history which is completed in Jesus Christ.	
PREREQUISITES:	Theology I	
LENGTH OF COURSE:	One semester	
CONTENT:	<u>Jesus Christ in the Church</u>	1/2 credit—spring-Sophomore
PREREQUISITES:	The Catholic Church is rooted in Jesus Christ and the earliest apostolic community. The nature of the Church is revealed by its four theological works, its institutional presence and its mission to evangelize all nations.	
LENGTH OF COURSE:	Theology I	
LENGTH OF COURSE:	One semester	
TH 131 Theology III	<u>Sacraments – Privileged Encounters with Jesus Christ</u>	1/2 credit – fall - Junior
CONTENT:	This course will help students understand how we encounter Christ today in a full and real way through the Sacraments and liturgy of the Church, especially in the Eucharist. Students will examine the reflections of daily life found in each of the Sacraments, so that the encounter with Christ is viewed in its full and lived context.	
PREREQUISITES:	Theology I & II	
LENGTH OF COURSE:	One semester	
CONTENT:	<u>Morality - Life in Jesus Christ</u>	1/2 credit – spring —Junior
PREREQUISITES:	This course focuses on the essential message of Christ's moral teaching, the importance of love of God and love of neighbor. It is presented in a way that is clearly applicable to the lives of today's teenagers. The course has an important task – to teach Catholic morality in a contemporary culture where religious indifference is high, where human rights are often violated, and where there is a diminished moral reference throughout political and social life.	
LENGTH OF COURSE:	Theology I & II	
LENGTH OF COURSE:	One semester	

<p>TH 135 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Christian Service Learning Program</u> 1/2 credit –Junior/Senior</p> <p>This independent study course enables students to engage in direct social service to those with need through awareness and praxis. In this course, students serve in an approved social service agency for 100 hours of service learning and justice outreach completed independently outside of regular school hours. The service experience is enhanced through adequate formation, prayer and reflection, awareness activities, guidance, discernment, and small group meetings.</p> <p>Second semester junior standing Second semester junior year through fall semester senior year</p>
<p>TH 147 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Social and Moral Issues</u> 1/2 credit - Senior, Elective</p> <p>The purpose of this course is to introduce students to the Church’s social teaching. In this course, students are to learn how Christ’s concern for others, especially the poor and needy, is present today in the Church’s social teaching and mission.</p> <p>Theology I, II, and III One semester</p>
<p>TH 151 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Christian Vocations: Life, Love and Service</u> 1/2 credit - Senior, Elective</p> <p>The purpose of this course is to help students to understand the vocations of life: how Christ calls us to live. In this course, students should learn how all vocations are similar and how they differ. The course should be structured around married life, single life, priestly life, and consecrated life. Students should learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community.</p> <p>Theology I, II, and III One semester</p>
<p>TH153 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Sacred Scripture</u> 1/2 credit - Senior, Elective</p> <p>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. Given the limits of a semester of study, it will not be possible to introduce all the books of the Bible, but every effort is made to project a sense of the unity of the narrative for the divine plan of salvation, the presence of God’s action in the record of Revelation, and God’s desire to share merciful love with us. “All scripture is inspired by God and is useful for teaching, for refutation, for correction and for training in righteousness, so that one who belongs to God may be competent, equipped for every good work” (2 Tim 3:14-17).</p> <p>Theology I, II, and III One semester</p>
<p>TH154 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Church History</u> 1/2 credit - Senior, Elective</p> <p>Course Four presented a catechesis of the Church and the Body of Christ in history: its nature and meaning, images, marks, life and ministry, guide to moral life, and the role of prayer. This elective can supplement that catechesis on the Church. The purpose of this course is to supply the students with knowledge of the eras, issues, tragedies and triumphs of Church’s history from apostolic times to present. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by Him throughout history through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today and, as such, has both divine and human elements. Students will learn about the Church’s 2,000 years of history and about how the Church is lead and governed by the successors of the Apostles.</p> <p>Theology I, II, and III One semester</p>

TH 155

CONTENT:

PREREQUISITES:

LENGTH OF COURSE:

Ecumenical Issues

1/2 credit—Senior Elective

This course continues the foundation laid in the previous six courses, comparing the teaching of the Catholic Church to other traditions, both Christian and Non-Christian, with the goal of increasing human unity through fostering awareness of the great spiritual truths which are found in these other communities as well as understanding the ways in which we differ.

Theology I, II, and III

One semester

ENGLISH

EN 201	<u>English I: Foundations in Literature and English Composition</u>	1 credit - Freshmen/women
CONTENT:	English I have been designed to meet the varied skill levels of the ninth grade student. The course includes a strong emphasis on writing skills and vocabulary enrichment. Through the study of literature, the student is also provided an opportunity to develop and strengthen his/her thinking and comprehension skills.	
PREREQUISITES:	None	
LENGTH OF COURSE:	One year	
EN 202	<u>Honors English I Foundations in Literature and English Composition</u>	1 credit - Freshmen/women
CONTENT:	Honors English I provides a comprehensive study of literature in various poetry and prose forms. The study of a wide spectrum of ancient and modern literature emphasizes plot, characterization, theme, setting, figurative language, irony, symbol, analogy, and satire. Through analysis and evaluation, students acquire skills in observation, perception, comparison, and documentation. Formal writing of paragraphs and essays will improve the students' grammar and sentence structure.	
PREREQUISITES:	Entrance examination score of 90 percentile or above and recommendation of the department.	
LENGTH OF COURSE:	One year	
EN 205	<u>English II: Foundations in Literature and English Composition</u>	1 credit - Sophomore
CONTENT:	English II extends the study of literary analysis, composition and language. Students improve language skills through the study of vocabulary. Students write a variety of compositions ranging from research essay to essays of literary analysis. Emphasis is placed on the skills of supporting ideas and drawing conclusions. Students will read, study, discuss and write about major works of literature, including a variety of world and multi-cultural literature.	
PREREQUISITES:	English I	
LENGTH OF COURSE:	One year	
EN 206	<u>Honors English II: Selected Major Works and English Composition</u>	1 credit - Sophomore
CONTENT:	In this course students will study selected major works of world literature in great depth and write complex compositions. High order thinking skills will be used in preparation for Advanced Placement English III and IV. Through rigorous academic work, students will acquire the knowledge, concepts, and skills needed to engage in college-level English classes at the junior and senior level in high school.	
PREREQUISITES:	Completion of English I with 95% or higher; completion of Honors English I with 86% or higher; meeting benchmark verbal scores on the PSAT 8/9 and permission of instructor	
LENGTH OF COURSE:	One year	
EN 210	<u>English III: United States Literature</u>	1 credit - Junior
CONTENT:	English III explores the development of American literature from colonial times to the present. Literary units are arranged chronologically to study literature in historical context. Composition units offer the student experience in written expression emphasizing appropriate usage and logical thought. Vocabulary includes	

the study of meaning through context and word analysis.

PREREQUISITES:

English I and II

LENGTH OF COURSE:

One year

EN 211

Advanced Placement English Language

1 credit - Junior

CONTENT:

This course provides an in-depth study of U.S. literature. The study of themes in American literature provides a vehicle for comparison and contrast of the different eras of American thought. The study of grammar, usage, sentence structure, composition, and library and reference tools culminates in the writing of a formal research paper. Students will take the AP English Language Examination in May.

PREREQUISITES:

86 or higher in Honors English II, meeting benchmark Verbal scores on the PSAT and recommendation of the instructor.

LENGTH OF COURSE:

One year

EN 213

English III: The Challenging Americans

1 credit – Junior

CONTENT:

Students will read and analyze the challenging works of a wide variety of American authors and columnists including Arthur Miller, Tennessee Williams and others. The students completing this course will write additional types of essays and compositions and focus on critical thinking and analysis. The pace of the course is necessarily faster than English III, and the course will require a substantial amount of additional reading.

PREREQUISITES:

Recommendation of English II teacher and/or department chair

LENGTH OF COURSE:

One year

EN 215

English Literature and Composition IV

1 credit - Senior

CONTENT:

The content of English IV includes British literature, composition theories and practices, vocabulary study, literary forms and terminology, researching topics for presentations, basic reviews of sentence and paragraph structure, English usage and grammar. Three quarters of the year's study involves literature study to improve comprehension and build historical appreciation of the literature of the English world. One quarter of the year's work concentrates on writing theories and methods through preparation of a variety of writing projects. Non-fiction reading has been added to the curriculum to promote writing of argumentative essays.

PREREQUISITES:

English III

LENGTH OF COURSE:

One year

EN 216

Advanced Placement English Literature

1 credit - Senior

CONTENT:

Senior Advanced Placement English Literature provides an in-depth study of literature. The selected texts cover an extensive period of history and provide an opportunity for the student to further develop her/his language abilities. The course includes the study of literary themes, genres, and topics and introduces skills to develop stylistic writing. Students will take the AP English Literature examination in May.

PREREQUISITES:

88 or above in AP English Language.

LENGTH OF COURSE:

One year

EN 217

English IV Dual Credit

credit – Senior (3 college hrs. per semester)

CONTENT:

This course provides college level instruction in English composition. The syllabus follows the Houston Community College syllabi for English 1301 and English 1302 – English Composition I & II. The course is taught by a St. Pius X faculty member. It requires college level reading and writing ability. Completion of this course earning a "C" or above will earn students 6 hours of college credit which is reflected on the HCC transcript. The course also fulfills the English IV requirement of 1 full credit

towards graduation. The course is scheduled during the regular high school hours on the SPX campus.

PREREQUISITES: ACT Composite score 23 or above with minimum of 19 in English or SAT Composite score 1070 with a minimum of 500 in Critical Reading or qualifying score on Asset test. Qualified students may take a maximum of 6 hours of college credit per semester.

LENGTH OF COURSE: One year FEE: Students living within Houston Community College District – no fee. **Students living outside the district pay \$162.00 to the college.**

EN 221 **English Literature and Composition IV: Shakespeare** 1 credit - Senior
CONTENT: This senior level course provides a year’s study of the works of William Shakespeare. Students will read tragedies: *Hamlet*, *Othello* and *King Lear*; histories: *Henry V* and *Richard III*; and comedies: *The Tempest*, and *Much Ado About Nothing*. Students will analyze and dissect Shakespeare’s writing and learn vocabulary in context. Coordination of projects with other disciplines is a focus of the course.

PREREQUISITES: English III and recommendation of the English III teacher.

LENGTH OF COURSE: One year

EN 224 **Standardized Test Preparation** 1/2 credit elective - Junior, Senior
CONTENT: This course presents strategies and practices skills for improving standardized test scores. Students will complete and review practice online tests in English, mathematics, reading, and essay writing. They will also review the purposes of the ACT/SAT tests, general test-taking strategies, and ways to reduce test anxiety.

PREREQUISITES: Successful completion of 10th grade English and mathematics.

LENGTH OF COURSE: One semester

EN 226 **English Language Learners I** 1/2 credit elective – All Grade Levels
Listening, Speaking, and Critical Thinking in English

CONTENT: Students will listen, watch, research and respond in writing to academic lectures and articles with summaries, opinions and vocabulary development. Students will have the opportunity to participate in class discussions using the Socratic method of discussion. They will prepare speeches of varying lengths to help with pronunciation and build comfort and confidence in public speaking.

PREREQUISITES: None

LENGTH OF COURSE: One semester

EN 227 **English Language Learners II** 1/2 credit elective – All Grade Levels
Listening, Speaking, and Critical Thinking in English

CONTENT: Students will listen, watch, research and respond in writing to academic lectures and articles with summaries, opinions and vocabulary development. Students will have the opportunity to participate in class discussions using the Socratic method of discussion. They will prepare speeches of varying lengths to help with pronunciation and build comfort and confidence in public speaking.

PREREQUISITES: None

LENGTH OF COURSE: One semester

ENGLISH LANGUAGE ARTS/COMMUNICATION

<p>LA 241 CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Communications</u> 1/2 credit required—all levels Students will identify, analyze, develop and evaluate communication skills needed for success. The course will focus on relationships in interpersonal and intrapersonal communication, small groups, and public speaking. Students will learn to employ appropriate verbal and non-verbal communication. Units on group dynamics and listening skills will give students the skills to participate in classes, larger audiences, on teams and in small groups. Students apply skills presenting speeches, working in groups and completing projects during the semester.</p> <p>None</p> <p>One semester</p>
<p>LA 245 CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Debate I</u> 1/2 credit elective – Sophomore, Junior, Senior Forensics prepares students to be successful in a variety of competitive speech/drama events offered in TAPPS, TFA and National Forensics League tournaments. Students will research in preparation for events such as Lincoln-Douglas Debate and Original Oratory. They will learn argumentation which requires critical thinking and improves writing.</p> <p>None</p> <p>One semester</p>
<p>LA 246 CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Debate II</u> 1/2 credit elective – Sophomore, Junior, Senior Forensics prepares students to be successful in a variety of competitive speech/drama events offered in TAPPS, TFA and National Forensics League tournaments. Students will research in preparation for events such as Lincoln-Douglas Debate and extemporaneous speaking. They will learn argumentation which requires critical thinking and improves writing.</p> <p>Debate I</p> <p>One semester</p>
<p>LA 260 CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Yearbook I</u> 1 credit elective—Sophomore, Junior, Senior Students learn the skills needed to produce an exciting, creative, and meaningful memory book for the school year. Students will collaborate as they learn desk top publishing and journalism. This course will fulfill Fine Art requirement.</p> <p>None</p> <p>One year Some Saturday workshops are required.</p>
<p>LA 262 CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Yearbook II</u> 1 credit elective—Junior, Senior Those enrolling in Yearbook II lead the staff in publishing the <i>Del Sarto</i> annual. Developing a unified theme, students create a plan for the book and execute it to meet deadlines. They also use design, writing and editing skills to ensure the book's quality.</p> <p>Yearbook I</p> <p>One year Some Saturday workshops are required.</p>
<p>LA 263 CONTENT:</p>	<p><u>Yearbook III</u> 1 credit elective—Senior Yearbook III students, with two years of staff and production experience on the <i>Del Sarto</i> publication, assume leadership positions. They will assist with the training and supervision of students in publishing techniques and production, especially layout development, story writing, photography, and marketing. In a supervisory capacity, the students will coordinate all aspects of production, marketing, and editing with</p>

	the students (staff), section editors, and editors-in-chief. Yearbook I and Yearbook II One year Some Saturday workshops are required.
PREREQUISITES:	
LENGTH OF COURSE:	
LA 271	<u>Broadcast Journalism I</u> 1/2 credit elective—sophomore, junior, senior
CONTENT:	Broadcast Journalism will provide students with the skills and knowledge to be informed consumers of media in a technological society. The course provides the opportunity for student to learn basic journalistic and technological skills to be used in career choices and television productions.
PREREQUISITES:	None
LENGTH OF COURSE:	One semester
LA 273	<u>Broadcast Journalism II</u> 1/2 credit elective—sophomore, junior, senior
CONTENT:	This class will utilize the skills learned in Broadcast Journalism I to create news and feature stories for SPX News Announcements and SPX News Online. Emphasis will be placed on the area the student wants to further develop their skills (on camera, camera, writing/producing). Students will leave the class with a portfolio of work for college or professional use.
PREREQUISITES:	Broadcast Journalism I
LENGTH OF COURSE:	One semester
LA 276	<u>Academic Strategies I</u> 1 credit - Freshmen/women
CONTENT:	This course provides students an opportunity to practice skills and process information in order to succeed in college preparatory classes. The course will include strategies for a variety of disciplinary areas including English, mathematics, science, social studies and others. The course emphasizes the development and application of learning strategies suited to the student and the courses in which he/she is enrolled. Students will work with the teacher to devise strategies and schedules for monitoring grades and accessing the tutorial program of the school.
PREREQUISITES:	Recommendation of the Learning Center Director/Admissions Committee
LENGTH OF COURSE:	One year
LA 278	<u>Academic Strategies II</u> 1 credit – Sophomore
CONTENT:	In this course students will be provided the opportunity to develop mastery of skills in self-motivation that emphasize setting personal goals, monitoring performance, making adjustments when necessary and assuming responsibility for oneself as it applies to learning. In this class, the student will receive instruction and support in organization skill building, study techniques, and the identification of personal learning style.
PREREQUISITES:	Academic Strategies I or permission of the Learning Center Director
LENGTH OF COURSE:	One year
LA 284	<u>Academic Strategies III</u> 1 credit – Junior
CONTENT:	In this course students will be provided the opportunity to develop mastery of skills in self-motivation that emphasize setting personal goals, monitoring performance, making adjustments when necessary and assuming responsibility for oneself as it applies to learning. In this class, the student will receive instruction and support in organization skill building, study techniques, and the identification of personal learning style.
PREREQUISITES:	Academic Strategies II or permission of the Learning Center Director
LENGTH OF COURSE:	One year

LA 285 **Academic Strategies IV** 1 credit – Senior
CONTENT: In this course students will be provided the opportunity to develop mastery of skills in self-motivation that emphasize setting personal goals, monitoring performance, making adjustments when necessary and assuming responsibility for oneself as it applies to learning. In this class, the student will receive instruction and support in organization skill building, study techniques, and the identification of personal learning style.
PREREQUISITES: Academic Strategies III or permission of the Learning Center Director
LENGTH OF COURSE: One year

LA 282 **Reading/Writing Development I** 1 credit—Freshman/woman
CONTENT: This course utilizes READ 180, an engaging and effective research-based reading program which includes curriculum, instruction and assessments to raise reading achievement. Students will benefit from use of technology and individualized instruction to improve their reading levels. The class will include works of fiction and non-fiction in a multimedia program that blends teacher instruction with technology to help students. High interest videos help student build mental models followed with customized reading instruction and practice.
PREREQUISITES: Recommendation of Admissions Committee based on entrance examination scores, additional reading testing, prior grades, and teacher recommendations.
LENGTH OF COURSE: One year

LA 283 **Reading/Writing Development II** 1 credit – Sophomore
CONTENT: The course continues use of the READ 180 program at the student's individual level in order to build comprehension and fluency and improve writing skills. The course individualizes and adjusts support to address each student's needs. The course gives students the opportunity to build critical reading skills, vocabulary, writing, 21st Century learning and grammar skills.
PREREQUISITES: Students who have tested and qualify, or Reading I
LENGTH OF COURSE: One year

FOREIGN LANGUAGE

FL 301	<u>French I</u>	1 credit—all levels
CONTENT:	This introductory course exposes students to the language and cultures of the French-speaking world. Students will develop basic proficiency in the four modalities of language learning: listening, speaking, reading, and writing. Students will first learn to communicate about themselves, their families, and their friends. Then, students will respond to oral and written prompts about their daily lives, responsibilities, and favorite restaurants. There is a strong emphasis on vocabulary acquisition and verb conjugation at this level. French will be used as much as possible during classroom instruction.	
PREREQUISITES:	Recommendation of Admissions Committee or department	
LENGTH OF COURSE:	One year	
FL 302	<u>French II</u>	1 credit—all levels
CONTENT:	Students will continue to develop proficiency in the four modalities of language learning: listening, speaking, reading, and writing. Students will begin to use the language practically and creatively to make inquiries, gather information, and express opinions. Students will begin to hold conversation on topics ranging from holiday gatherings and food to daily routines and academic choices. They will begin to discuss and analyze fairytales and poems. Students will be introduced to a broad-range of grammatical topics and continue to expand their vocabulary base increase the number and type of situations in which they can function. His class will be conducted mostly in French.	
PREREQUISITE:	French I	
LENGTH OF COURSE:	One year	
FL 303	<u>Honors French III</u>	1 credit - Sophomore, Junior, Senior
CONTENT:	Students will continue to use the language practically and creatively to complete a variety of tasks including listening, speaking, reading and writing. Themes to be explored include vacation and leisure activities, education and career choices, childhood memories, relationships, the environment, and art within the francophone world. More complex grammatical concepts are introduced. This course will be conducted in French.	
PREREQUISITES:	French II, B or above and teacher recommendation	
LENGTH OF COURSE:	One year	
FL 304	<u>Honors French IV</u>	1 credit—Junior, Senior
CONTENT:	Students explore the French and Francophone worlds through six themes (family and community, science and technology, art, contemporary life, global challenges, environment). Students will also study the novel <i>Le Petit Prince from St. Exupery</i> . All students are expected to participate in class discussions. Evaluation is based upon regular assignments and oral presentations, as well as oral and written quizzes and essays. Students will be using more advanced grammar conventions. This course is conducted entirely in French.	
PREREQUISITES:	French III, B or above and teacher recommendation	
LENGTH OF COURSE:	One year	
FL 305	<u>Advanced Placement French Language</u>	1 credit— Senior
CONTENT:	This course prepares students to communicate proficiently through the three modes of communication (interpersonal, interpretive, and presentational). Students will refine their French skills while adding new vocabulary pertinent to a variety of subjects, and exploring a variety of material from the francophone world. This	

course is conducted entirely in French and students are expected to take the AP French exam in May.

This course may be offered concurrently with Honors French IV, depending on enrollment requests. Alternative curriculum choices and rotating course syllabi will be offered in such circumstances.

PREREQUISITES:

French III or IV, A or above and teacher recommendation

LENGTH OF COURSE:

One year

FL 311

Latin I

1 credit—all levels

CONTENT:

In this course students learn the structure and vocabulary of the language from which most modern European languages have derived. Mastery of Latin grammar and vocabulary aids understanding and improves writing of the English language. Exposure to Latin provides strong skills for college entrance exams along with preparation for the terminology of science, law and medicine.

PREREQUISITES:

Recommendation of Admissions Committee or department

LENGTH OF COURSE:

One year

FL 312

Latin II

1 credit—Sophomore, Junior, Senior

CONTENT:

This course reviews the Latin vocabulary and syntax learned in the first year. It introduces new grammatical forms and vocabulary enabling the student to translate interesting, original Latin texts during the second semester.

PREREQUISITES:

Latin I

LENGTH OF COURSE:

One year

FL 313

Honors Latin III

1 credit - Sophomore, Junior, Senior

CONTENT:

Grammar will be reviewed, new vocabulary will be introduced, and a variety of prose authors, both historical and literary will be studied. In preparation for Latin IV AP, student will read Julius Caesar, Cicero, and other authors as well as be introduced to Latin Poetry through Vergil, Catullus and Horace.

PREREQUISITES:

Latin I, Latin II and teacher recommendation.

LENGTH OF COURSE:

One year

FL 316

Advanced Placement Latin: Vergil & Caesar

1 credit-junior, senior

CONTENT:

The goals of the AP Latin: Vergil and Casear course conform to college Latin studies in the fourth through sixth semesters. The basic objective is progress in reading, translating, understanding, analyzing, and interpreting Latin using *Julius Caesar's Gallic Wars* and *Vergil's Aeneid*.

PREREQUISITES:

Honors Latin III, instructor approval

LENGTH OF COURSE:

One year

FL 317

Spanish I

1 credit—all levels

CONTENT:

Spanish I is the foundation course for students who have not taken Spanish previously and/or for those who have had limited instruction in the language. The basic structures of the language are introduced, reinforced, and practiced. Hispanic culture and history are integrated into the lessons regularly.

PREREQUISITES:

None

LENGTH OF COURSE:

One year

FL 321

Spanish II

1 credit—all levels

CONTENT:

This course develops fluency in spoken and written Spanish through daily translation, interaction with new vocabulary and verb drills. Almost all aspects of Spanish grammar are taught and reviewed. Students are given the opportunities to see, hear, speak and write the language. CD's and video presentations as well as

	workbook pages are used to reinforce each objective covered.
PREREQUISITES:	Spanish I
LENGTH OF COURSE:	One year
FL 324	<u>Spanish III</u> 1 credit—Sophomore, Junior, Senior
CONTENT:	Spanish III is a fine-tuning of the total system of communication. At this level, emphasis is placed upon acquisition of oral skills, while perfecting and understanding grammatical constructions.
PREREQUISITES:	84 or above in Spanish II and teacher recommendation
LENGTH OF COURSE:	One year
FL 325	<u>Honors Spanish III</u> 1 credit—Sophomore, Junior, Senior
CONTENT:	Spanish III is a fine-tuning of communication skills in the language. The emphasis is placed upon acquisition of oral skills while perfecting and understanding additional advanced grammatical constructions. Students will be introduced to Spanish literature through poetry, skits, film, and chapters of selected works.
PREREQUISITES:	90 or above in Spanish II and recommendation by the teacher.
LENGTH OF COURSE:	One year
FL 326	<u>Honors Spanish IV</u> 1 credit—Junior, Senior
CONTENT:	Students will increase their vocabulary, gain fluency in speaking, listening, reading and writing, and practice using more complex grammatical structures. Students will be exposed to Spanish poetry and prose and will be able to demonstrate their oral language acquisition through skits and oral presentation. The internet is used frequently for further practice of skills.
PREREQUISITES:	80 or above in Honors Spanish III or 90 or above in Spanish III and teacher recommendation
LENGTH OF COURSE:	One year
FL 327	<u>Advanced Placement Spanish Language</u> 1 credit - Senior
CONTENT:	The AP program in Spanish language is intended for those who have chosen to develop their proficiency in all four language skills: listening, speaking, reading, and writing. The course covers the equivalent of a third-year college course in Advanced Spanish writing and conversation. It encompasses aural/oral skills, reading comprehension, grammar, and composition. Students will take the Advanced Placement Exam in May after completing this course.
PREREQUISITES:	80% or better in Honors Spanish III or IV or 90% or better in Spanish III or IV and teacher recommendation
LENGTH OF COURSE:	One year
FL 328	<u>Spanish IV</u> 1 credit—Junior, Senior
CONTENT:	The course teaches conversation, grammar and composition and prepares the student to pass the language tests for college placement and/or credit. Students will improve their vocabulary through skits, poetry and selected readings. Usage of the Internet will help students further practice their language skills.
PREREQUISITES:	80 or above in Spanish III and teacher recommendation
LENGTH OF COURSE:	One year
FL 331	<u>Spanish Dual Credit</u> 1 credit—Junior, Senior
CONTENT:	This course provides college level instruction in Spanish. The syllabus follows the Houston Community College (HCC) syllabi for Spanish 1411 and Spanish 1412. The course is taught by a St. Pius X faculty member. It requires college level reading and writing ability. Completion of this course earning a "C" or above will earn students 6

hours of college credit which is reflected on the HCC transcript. The course also fulfills the Spanish IV requirement of 1 full credit towards graduation. The course is scheduled during the regular high school hours on the SPX campus.

PREREQUISITES:

ACT Composite score of 23 or above with a minimum of 19 in English or SAT Composite score of 1070 with a minimum of 500 in Critical Reading or qualifying score on Assessment test. Qualified students may take a maximum of 6 hours of college credit per semester.

LENGTH OF COURSE:

One year

MATHEMATICS

<p>MT 400</p> <p>CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Algebra I</u> 1 credit—Freshman/woman</p> <p>This is a standard program in algebra for average and above average students. It provides a strong base for college-bound students.</p> <p>Average proficiency or above on the St. Pius X entrance examination; recommendation of eighth grade mathematics instructor with a grade of 75 or above and/or successful completion of St. Pius X summer Study For Success course with the approval of the Academic Dean and /or the Mathematics Department chair, or appropriate level of achievement on the SPX placement exam. Use of Graphing Calculator TI 84 Plus or TI 84 Plus C.</p> <p>One year</p>
<p>MT 401, MT 401L</p> <p>CONTENT:</p> <p>PREREQUISITES:</p> <p>Length of course:</p>	<p><u>Algebra I with Lab</u> 2 credits Freshman/woman</p> <p>This is a double-block class which provides in-depth support for students who may have gaps in math skills or struggled in math in the past. This support includes using a self-paced computer program to help learn concepts that have been missed; using manipulatives; and having more in-class work time with observation.</p> <p>Recommendation by mathematics department, based on diagnostic test and observation in Study for Success summer class. Use of Graphing Calculator TI 84 Plus or TI 84 Plus C.</p> <p>One year</p>
<p>MT 406</p> <p>CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Honors Algebra I</u> 1 credit—Freshman/woman</p> <p>This course provides an accelerated, comprehensive overview of Algebra I with an introduction to geometry. It is designed for the college-bound student who enjoys mathematics and who has displayed procedural and problem solving skills. Both quantity and complexity of problems are higher than those found in a standard algebra course. The approach is more theoretical.</p> <p>Entrance examination score at or above the 90th percentile in mathematical concepts and skills, overall composite at or above the 90th percentile and recommendation of eighth grade mathematics instructor and the St. Pius X department chair. Students who score below the 90th percentile, and/or who have completed an eighth grade course in Algebra I and wish placement in this course, must take the St. Pius X Placement Examination held in April. Use of Graphing Calculator TI 84 Plus or TI 84 Plus C.</p> <p>One year</p>
<p>MT 410</p> <p>CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Geometry</u> 1 credit—Freshman/woman, Sophomore, Junior</p> <p>This is a college-preparatory course, designed to develop an understanding of geometric relations in a plane and in space.</p> <p>Algebra I or Honors Algebra I</p> <p>One year</p>
<p>MT 411</p> <p>CONTENT:</p>	<p><u>Honors Geometry/Trigonometry</u> 1 credit—Freshman/woman, Sophomore</p> <p>This course presents an accelerated, comprehensive survey of planar and spatial geometric relationships. Designed for the college bound student with exceptional mathematical and critical/analytical ability, students enrolling in this course should have the desire to move beyond the scope of the normal college preparatory curriculum. Appropriate technology including the graphing calculator, is used to explore the geometric and trigonometric relationships. Students in this course will complete independent or group projects on topics not covered in a regular geometry course.</p>

PREREQUISITES: 80 or better in the second semester of Honors Algebra I, or 98 or better in the second semester of Algebra I with approval of department chairperson. Students who have completed Algebra I and/or Geometry in eighth grade, and who wish placement in this course, must take the St. Pius X Mathematics Placement Examination in April. Department chair approval is required for this course. Use of Graphing Calculator TI 84 Plus or TI 84 Plus C.

LENGTH OF COURSE: One year

MT 420 **Algebra II** 1 credit—Junior, Senior

CONTENT: This course provides a thorough review of Algebra I and begins a detailed study of irrational and complex numbers, quadratic equations, systems of equations, relations and functions, graphing techniques and graphical analysis.

PREREQUISITES: 1 credit in Geometry (or concurrent enrollment), a grade of 75 or higher in the 2nd semester of Algebra I, and/or permission of the department chair. NOTE: Students who earned a grade of 74 or below in the second semester of Algebra I may enroll in Algebra II, under contract, with the approval of the department chair, and contingent upon successful completion of the summer refresher seminar in basic algebraic skills and concepts. Use of Graphing Calculator TI 84 Plus or TI 84 Plus C.

LENGTH OF COURSE: One year

MT 423 **Honors Algebra II** 1 credit—Sophomore, Junior

CONTENT: This course provides an accelerated, comprehensive program for college-bound students with exceptional ability. It covers all material found in the standard college-preparatory Algebra II course, and is expanded to include some Pre-calculus topics.

PREREQUISITES: Department chair approval is required. Sophomores must have completed or be enrolled concurrently in Honors Geometry. Juniors must have earned a grade of 80 or better in Honors Geometry, and a grade of 80 or better in the last semester of Honors Algebra I. Juniors having earned a grade of 98 or better in the second semester of Algebra I or Geometry may seek approval to enroll in this course. Use of Graphing Calculator TI 84 Plus or TI 84 Plus C.

LENGTH OF COURSE: One year

MT 425 **College Algebra/Trigonometry** 1 credit – Junior, Senior

CONTENT: This course includes topics from advanced algebra and trigonometry and is designed for students intending to go to college, but not ready for pre-calculus. Graphing calculators are used to explore algebraic and trigonometric concepts.

Transformations of data, graphs and equations include work with polynomials, exponential, logarithmic and trigonometric functions. All students must have everyday access to a TI 84 Plus or TI 84 Plus C graphing calculator.

PREREQUISITES: Algebra I, Geometry, Algebra II, Recommendation of math department.

LENGTH: One year

MT 430 **Pre-calculus** 1 credit – Junior, Senior

CONTENT: This course focuses on the application of algebra and trigonometry to the study of polynomial, rational, exponential, and logarithmic and trigonometric functions and their graphs. Special emphasis is given to problem solving, the appropriate use of technology, and skills that are needed for calculus. All students must have everyday access to a TI 84 Plus or TI 84 Plus C graphing calculator.

PREREQUISITES: Algebra I, Geometry, 80 or better in the second semester of Algebra II, Recommendation of math instructor and department chair.

LENGTH: 1 year

MT 432	<u>Mathematical Models with Applications</u>	1 credit—Junior
CONTENT:	This course is intended to build on Algebra I and Geometry courses, and to place emphasis on bringing about a deeper understanding of those mathematical relationships that will help students gain greater mathematical literacy and help them build a strong foundation for future study in mathematics [Algebra II] and other disciplines.	
PREREQUISITES:	Algebra I, Geometry and recommendation of the teacher or Department Chair. Use of Graphing Calculator TI 84 Plus or TI 84 Plus C.	
LENGTH:	One year	
MT 435	<u>Honors Pre-calculus</u>	1 credit—Junior, Senior
CONTENT:	This course is designed for the student who intends to take a calculus course at the high school or college level. This comprehensive, fast-paced course will integrate concepts and procedures from all previous mathematics courses and incorporate the theory and symbolism, and precision necessary to be successful in higher mathematics. Critical thinking, analysis skills, and application of concepts and procedures are stressed. All students must have everyday access to a TI-84 Plus or TI 84 Plus C graphing calculator.	
PREREQUISITES:	A minimum of 87 or better in the second semester of Honors Algebra II, or 97 or better in the second semester of Algebra II and a minimum of 87 in the second semester of Honors Geometry. Students enrolling in this course must have the recommendation of the current instructor and the approval of the department chair.	
LENGTH OF COURSE:	One year	
MT 440	<u>Advanced Placement Calculus AB</u>	1 credit—Senior
CONTENT:	This Advanced Placement course prepares students to take the Calculus AB Advanced Placement Examination in the spring semester. Students will explore new concepts and applications related to further college study in science, architecture, engineering, pre-medicine, or business.	
PREREQUISITES:	80 or better in the second semester of Honors Pre-calculus and/or the approval of the department chair.	
LENGTH OF COURSE:	One year	
MT 445	<u>Advanced Placement Calculus BC</u>	1 credit—Senior
CONTENT:	This advanced placement course prepares students to take the Calculus BC Advanced Placement examination in the spring semester. Students will explore new concepts and applications related to further college study in science, engineering, mathematics or other mathematically-intense fields.	
PREREQUISITES:	90 or better in the second semester of Honors Pre-Calculus and approval of the department chair.	
LENGTH OF COURSE:	One year	
MT 450	<u>Advanced Placement Statistics</u>	1 credit—Junior, Senior
CONTENT:	This advanced placement course will have students exploring data, sampling and experimentation, anticipating patterns, and statistical inference.	
PREREQUISITES:	Honors Algebra II, Pre-Calculus, or Honors Pre-Calculus.	
LENGTH OF COURSE:	One year	

SCIENCE

SC 504	<u>Integrated Physics and Chemistry</u>	1 credit—Sophomore
CONTENT:	This study of physical science covers the introductory concepts of physics and chemistry. Areas covered include the metric system of measurements, diversity, patterns and interactions of matter, motion, forces, energy, heat energy, electricity, magnetism, and technology.	
PREREQUISITES:	Biology	
LENGTH OF COURSE:	One year	
SC520	<u>Biology I</u>	1 credit—Freshman/woman
CONTENT:	This course covers biological principles necessary to prepare the student for success in college science, while also emphasizing the practical biological concepts important to his/her own life. Course content includes the study of the metric system, molecule, cells, heredity, evolution, organisms, and populations. This foundation will lead to discussion and study of the six kingdoms of life, and will include microbiology and a taxonomic study of plants, invertebrates, and vertebrates with an emphasis on the major systems of the human organism.	
PREREQUISITES:	None	
LENGTH OF COURSE:	One year	
SC 521	<u>Honors Biology I</u>	1 credit—Sophomore
CONTENT:	This course provides a more in-depth study of the topics covered in Biology I. Lab work and vocabulary are more detailed and in-depth compared to the standard course. Individual research and outside reading will be required in order for students to actively contribute to classroom discussions on current topics in the field of Biology.	
PREREQUISITES:	Entrance examination score at or above 90% and recommendation of the Science Department.	
LENGTH OF COURSE:	One year	
SC 522	<u>Advanced Placement Biology</u>	1 credit – Senior, Junior
CONTENT:	This course is designed to be the equivalent of a college introductory biology courses and includes topics and labs covered for biology majors. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Emphasis is placed on developing an understanding of concepts rather than on memorizing terms and technical details. Study of three major topic areas includes molecules and cells, heredity and evolution, and organisms and populations. The course will prepare students to take the AP Biology Examination in the spring. Students will be required to spend extra time outside of regular classroom hours to complete labs and projects in order to complete this course. These times may be scheduled before or after school hours depending on scheduling.	
PREREQUISITES:	90 or above in College Preparatory Biology and College Preparatory Chemistry; 80 or above in Honors Chemistry; and recommendation of Science Department	
LENGTH OF COURSE:	One year	
SC 530	<u>Chemistry I</u>	1 credit—Sophomore, Junior
CONTENT:	This course provides a solid foundation of concepts and skills to prepare students for chemistry at the college level. Students are challenged to develop and use critical thinking and problem solving skills. The unifying theme relating all topics is that the properties of matter are a consequence of their structure. Laboratory experiences	

challenge the student to apply theoretical concepts to relate them to real world phenomenon. Areas covered include measurement and calculations, classification of matter, matter-energy relationships, atomic and molecular structure, periodicity, the mole concept, formula calculations, solutions, and acids and bases.

PREREQUISITES:

Current enrollment in Algebra II and teacher recommendation.

LENGTH OF COURSE:

One year

SC 531

Honors Chemistry I

1 credit—Sophomore, Junior

CONTENTS:

This is a challenging course that will prepare students interested in pursuing a career in a scientific field. It is designed for students with strong science reasoning ability and work ethics. Areas covered include principles of matter-energy relationships, classification of matter, the mole concept, formula calculations, periodicity, atomic and molecular structures, solubility, acids and bases, equilibrium, and organic chemistry.

PREREQUISITES:

An 85 or above in Honors Biology; 95 or above in Biology and placement in Honors Geometry or Honors Algebra II; and teacher recommendation.

LENGTH OF COURSE:

One year

SC532

Conceptual Chemistry

1 credit—Sophomore, Junior

CONTENT:

This course covers the concepts and skills of high school chemistry. It develops skills and understanding of the principles fundamental to the field of chemistry. While covering the traditional topics in Chemistry, it provides a flexible curriculum that addresses the needs of students.

PREREQUISITES:

Juniors: Geometry, a 75 or above in IPC, and teacher recommendation.

Seniors: 80 or above in Environmental Science and concurrent enrollment in Algebra II.

LENGTH OF COURSE:

One year

SC 535

Advanced Placement Chemistry

1 credit – Junior, Senior

CONTENT:

The AP Chemistry course provides students with a college-level foundation to support future advanced course work in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Created by the AP Chemistry Development Committee, the course curriculum is compatible with many Chemistry courses in colleges and universities.

PREREQUISITES:

85 or better in Honors Chemistry or 90 or better in Chemistry I; 90 or better in Honors Geometry or Algebra II; teacher recommendation

LENGTH OF COURSE:

One year

SC 552

Physics

1 credit—Junior, Senior

CONTENT:

Physics 1 is an Algebra-based, college prep-level physics course that explores topics such as motion Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, power, mechanical waves and sound. It will also introduce electric circuits. It will promote critical thinking skills and scientific reasoning through guided inquiry and problem solving.

PREREQUISITES:

A minimum 75 in Chemistry or a minimum of 90 in Conceptual Chemistry and teacher recommendation.

LENGTH OF COURSE:

One year

SC554

Conceptual Physics

1 credit – Junior, Senior

CONTENT:

Conceptual Physics explores topics such as motion Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, power, mechanical

waves and sound. It will also introduce electric circuits. It will promote critical thinking skills and scientific reasoning through guided inquiry and problem solving. 75 or above in Conceptual Chemistry; Chemistry; and concurrent enrollment in Algebra II or College Algebra; and teacher recommendation.

PREREQUISITES:

LENGTH OF COURSE:

One year.

SC 556

Advanced Placement Physics

1 credit—Senior

CONTENT:

AP Physics 1 is an Algebra-based, introductory college-level course that explores topics such as motion Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, power, mechanical waves and sound. It will also introduce electric circuits. It will promote critical thinking skills and scientific reasoning and develop independent learners through inquiry.

PREREQUISITES:

Chemistry or Honors Chemistry, and previous or concurrent enrollment in Honors Pre-calculus or AP Calculus and teacher recommendation.

LENGTH OF COURSE:

One year

SC 557

Advanced Placement Physics II

1 credit – Senior

CONTENT:

AP Physics 2 is an Algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electric circuits with capacitors; magnetic fields; electromagnetisms; physical and geometric optics; and quantum, atomic, and nuclear physics.

PREREQUISITES:

Completion of AP Physics 1 or a 90 or above in Physics I and teacher recommendation.

LENGTH OF COURSE:

One year

SC 568

Environmental Science I

1/2 credit—Junior, Senior

CONTENT:

This course includes the study of natural resources, biodiversity, and ecology. Topics include the flow of energy in ecosystems and biomes, the study of populations and how they change and interact, and the organizations of life. Students are introduced to science and the environment and will explore the scientific method, statistics, and models in order to make informed decisions about issues that effect the environment.

PREREQUISITES:

Biology and a second credit of science

LENGTH OF COURSE:

One semester-Fall

SC 569

Environmental Science II

1/2 credit—Junior, Senior

CONTENT:

This course includes the study of energy, pollution, and natural disasters as they impact the environment. Topics include environmental interrelationships and ethics, land use planning, agricultural methods, and the effect of greenhouse gases on climate change, water management and pollution, air pollution, waste management, alternative energy sources, and environmental policy and decision-making.

PREREQUISITES:

Biology, and a second credit of science

LENGTH OF COURSE:

One semester-Spring

SC 570

Earth and Space Science

1 credit – Senior

CONTENT:

This course will focus on three major science concepts: Earth in Space and Time, Solid Earth, and Fluid Earth. Course content includes geology, oceanography, meteorology, environmental science, and astronomy. Students will study the origin, evolution, and properties of the integrated Earth and planetary systems. Using a chronological framework and a systems approach, students will increase their knowledge of the dynamics of Earth and space using data, models, and observations over time.

PREREQUISITES: Biology, Integrated Physics & Chemistry, & a third year of science.
LENGTH OF COURSE: One year

SC 575 **Forensic Science** 1 credit – Junior, Senior

CONTENT: This course provides a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scenes, questioning, interviewing, criminal behavior characteristics, truth detection and scientific procedures used to solve crimes. Using scientific methods students will collect and analyze evidence through case studies and simulated crime scenes. Methods will include fingerprint analysis, ballistics, blood spatter analysis and DNA testing. Students will learn the history, legal aspects and career options for forensic science.

PREREQUISITES: Successful completion of Chemistry I or a grade of 75 or higher in Conceptual Chemistry. Students must also have successfully completed Algebra II or be currently enrolled in Algebra II and teacher recommendation.

LENGTH OF COURSE: One year

SC 580 **Engineering Your World I** 1 credit – Junior, Senior

CONTENT: *Engineering Design and Analysis* -This course is designed to build 21st century skills, critical thinking and problem solving, communication and collaboration. Students will be working in a project based environment developing skills to prepare them for a career in an engineering field, train them to think like an engineer, and develop their abilities to complete collegiate level work in the structured environment of an SPX classroom. Dual-enrollment course with University of Texas, Austin

PREREQUISITES: Either IPC, Physics or Algebra I and teacher recommendation.

LENGTH OF COURSE: One year

SC 581 **Engineering Your World II** 1 credit – Junior, Senior

CONTENT: *Engineering Applications of Computer Science* – comprises a combination of project-based, socially relevant design challenges and explorations that introduce students to key computing principles in the context of engineering. Students employ engineering processes, skills, and habits of mind to solve more complex challenges that rely on the computing, programming, data representation and analysis, algorithmic thinking, and modeling skills that are required for engineering. This course builds on the skills set in year one. Students will be working in a project based environment to prepare them for a career in an engineering field, train them to think like an engineer, and develop their abilities to complete collegiate level work in the structured environment of an SPX classroom. Dual-enrollment course with University of Texas, Austin

PREREQUISITES: Engineering Your World I and teacher recommendation.

LENGTH OF COURSE: One year

SOCIAL STUDIES

SS 600	<u>U.S. History</u>	1 credit—Junior
CONTENT:	This course studies a time period of the pre-civil war in America to the current administration of President Trump. It explores in depth the various presidencies and policies that affected the United States during key times of the nation’s development. Students will study the major wars and their impact on the American people. The course content also explores the issues of poverty, immigration, economic and social movements and justice issues throughout the nation’s history. Students will be introduced to the social history of the nation including the trends and fads of the generations.	
PREREQUISITES:	None	
LENGTH OF COURSE:	One year	
SS 605	<u>Advanced Placement U.S. History</u>	1 credit – Junior
CONTENT:	The course covers the periods of exploration and colonization to 1763, the Revolutionary era, Constitutional Government, the Jefferson and Jacksonian periods, the split between the North and South, domestic America, and the Imperial Republic during the first semester. The second semester includes the study of the Progressive Movement, World War I, the Great Depression, World War II, and current history. Several texts, outside reading assignments, tables, charts, maps and graph analysis assist students with in-depth, comprehensive coverage of the events of American history.	
PREREQUISITES:	Teacher recommendation from Honors World History or World History and from the Social Studies Department Chair	
LENGTH OF COURSE:	One year	
SS 610	<u>U.S. History Dual Credit</u>	1/2 credit (3 college hours) – Junior
CONTENT:	This course provides college-level instruction of U.S. history from Pre-Contact Societies through Reconstruction in the fall and U.S. history from 1877 to present in the spring. The course is taught by a St. Pius X faculty member. It requires college level reading and writing ability. Completion of this course earning a “C” or above will earn students 3 hours of college credit which is reflected on the HCC transcript or other college transcript that the school may use for this course. The course also fulfills the requirement of ½ credit of U.S. Government for graduation. The course is scheduled during the regular high school hours on the SPX campus.	
PREREQUISITES:	ACT Composite score 23 or above with minimum of 19 in English or SAT Composite score 1070 with a minimum of 500 in Critical Reading or qualifying score on Asset test. Qualified students may take a maximum of 6 hours of college credit per semester.	
LENGTH OF COURSE:	One year	
TEXT:	As required by college	
FEE:	Students living within Houston Community College District – no fee. Students living outside the district pay an additional fee to the college.	
SS 632	<u>Ancient World History and Geography</u>	1 credit – Freshmen/women
CONTENT:	This course is a study of the history of the world, and its impact on the present time. It also includes study of the development of cultures, social groupings, activities, technologies, means of communication, and world views. The course seeks to develop skills, attitudes, and behaviors that will enable students to function as effective citizens in a changing world. The course will start with the beginnings of civilization and end with the Middle Ages. Major topics include: civilizations of Egypt, China, Greece, Rome, and Africa; major historical periods such as the Middle Ages,	

the Age of Exploration, and European Colonization.
PREREQUISITES: None
LENGTH OF COURSE: One year

SS 633 **Modern World History and Geography** 1 credit – Sophomore
CONTENT: This course is a study of the history of the world, and its impact on the present time.

It also includes study of the development of cultures, social groupings, activities, technologies, means of communication, and world views. The course seeks to develop skills, attitudes, and behaviors that will enable students to function as effective citizens in a changing world. The course will start with the Enlightenment and Scientific Revolution and end with modern times. Major topics include: the French Revolution, WWI, WWII, The Cold War, The Korean War, Vietnam, The Gulf War, and the War in Afghanistan.

PREREQUISITES: Ancient World History and Geography
LENGTH OF COURSE: One year

SS634 **Honors Ancient World History and Geography** 1 credit – Freshmen/women
CONTENT: The course will start with the establishment of the earliest civilizations. These will include the civilizations of Egypt, India, China, Greece, Rome, and Africa through the Middle-Ages. This course is designed for those students with a strong interest in social studies and world events. It is a thorough appraisal of world cultures, geography, history, religion and art and concentrates on analysis of the reasons behind historical events.

Prerequisites: Teacher and Department Chair recommendation
Length of course: One year

SS635 **Honors Modern World History and Geography** 1 credit – Sophomore
CONTENT: This course begins with the Age of Exploration and Colonization and continues with study of major political, economic, social, and military events through current days. This course is designed for those who have a strong interest in social studies and world events. It is a fast paced appraisal of culture, geography, economic and political development, history, religion and art throughout the world.

PREREQUISITES: Recommendation of department
LENGTH OF COURSE: One year

SS 640 **U.S. Government** 1/2 credit—Senior
CONTENT: This course examines the principles and beliefs upon which the United States was founded and the structure, functions and powers of government at the national, state and local levels. Students learn major political ideas and forms of government in history. A significant focus on the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems. Students analyze the impact of individuals, political parties, interest groups, and the media on the American political system, evaluate the importance of voluntary individual participation in a democratic society, and analyze the rights guaranteed by the U.S. Constitution. Students examine the relationship between governmental policies and the culture of the United States.

PREREQUISITES: U.S. History, World History
LENGTH OF COURSE: One semester

SS 641	<u>U.S. Government Dual Credit</u>	1/2 credit (3 college hours) Senior
CONTENT:	This course provides college level instruction in American Government. The syllabus follows the Houston Community College syllabi for American Government. The course is taught by a St. Pius X faculty member. It requires college level reading and writing ability. Completion of this course earning a “C” or above will earn students 3 hours of college credit which is reflected on the HCC transcript or other college transcript that the school may use for this course. The course also fulfills the requirement of ½ credit of U.S. Government for graduation. The course is scheduled during the regular high school hours on the SPX campus.	
PREREQUISITES:	ACT Composite score 23 or above with minimum of 19 in English or SAT Composite score 1070 with a minimum of 500 in Critical Reading or qualifying score on Asset test. Qualified students may take a maximum of 6 hours of college credit per semester.	
LENGTH OF COURSE:	One year	
TEXT:	As required by college	
FEE:	Students living within Houston Community College District – no fee. Students living outside the district pay an additional fee to the college.	
SS 642	<u>Advanced Placement U.S. Government and Politics</u>	1/2 credit—Senior
CONTENT:	This course is designed to conform to the general standards of the Advanced Placement Program and the study of political behavior. It stresses the study of both general concepts used to interpret U.S. politics and the analysis of specific examples. Special emphasis is placed on the use of cases that describe the activities of citizens and political decision-makers, thus emphasizing an analytical approach to the three branches of government, the federal bureaucracy, and the various unofficial political specialists. Students must have a keen interest in government, politics, current events, and elections.	
PREREQUISITES:	90 or <u>better</u> in AP U.S. History and AP English III or 98 in U.S. History and English III and permission of teacher. Must also be enrolled in Honors Economics	
LENGTH OF COURSE:	One semester - Spring	
SS 645	<u>Economics</u>	1/2 credit—Senior
CONTENT:	The focus of this course is on the basic principles concerning production, consumption, and distribution of goods and services in the United States and a comparison with those in other countries around the world. Students examine the rights and responsibilities of consumers and business. Students analyze the interaction of supply, demand, and price and study the role of financial institutions in a free enterprise system. Types of business ownership and market structures are discussed, as are basic concepts of consumer economics. The impact of a variety of factors including geography, the federal government, economic ideas from important philosophers and historic documents, societal values, and technological innovations on the national economy and economic policy is an integral part of the course.	
PREREQUISITES:	U.S. History, World History	
LENGTH OF COURSE:	One semester	
SS 646	<u>Honors Economics</u>	1/2 credit—Senior
CONTENT:	This course is open to Honors students who demonstrate proficiency in mathematics and English. It provides students with an opportunity to thoroughly examine the principles of economics that apply to the functions of individual decision-makers, both consumers and producers, with the larger economic system. It places emphasis on the nature and functions of product markets, and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. In the second quarter, particular emphasis is given to the study of	

national income and students should become familiar with economic performance measures, economic growth, and international economics. The course concludes with students investigating a problem, issue, or concern; researching the topic using a variety of technologies; and presenting a product of professional quality.

PREREQUISITES:

90 or better in AP U.S. History and AP English III or 98 in U.S. History and English III and permission of the teacher. Must also be enrolled in Advanced Placement U.S. Government and Politics.

LENGTH OF COURSE:

One semester-Fall

SS 656

Psychology I

1/2 credit elective—Junior, Senior

CONTENT:

An introduction to psychology with focus on the history, current issues and future of psychology, psychological research, child development, learning theory, intelligence, memory and thought, sensation, perception, motivation and emotion. The course also includes a study of the brain and nervous system.

PREREQUISITES:

Junior or Senior - approval of the instructor

LENGTH OF COURSE:

One semester

SS 657

Psychology II

1/2 credit elective—Junior, Senior

CONTENT:

Primary focus is on abnormal behavior and its treatment, altered states of consciousness, group psychology, stress and the study of infancy, childhood, adolescence, adulthood and old age. A large part of the course deals with simple experimentation and the writing of lab analyses.

PREREQUISITES:

Junior or Senior - approval of instructor

LENGTH OF COURSE:

One semester

SS 658

Psychology - Dual Credit

1/2 credit (3 college hours) Senior

CONTENT:

This course provides college level instruction in psychology. The syllabus follows the Houston Community College syllabi for Psychology 2301—Introduction to Psychology or other local college working with St. Pius X High School. The course is taught by a St. Pius X faculty member. It requires college level reading and writing ability. Completion of this course earning a “C” or above will earn students 6 hours of college credit which is reflected on the HCC transcript. The course also fulfills ½ social studies credit towards SPX graduation. The course is scheduled during the regular high school hours on the SPX campus.

PREREQUISITES:

ACT Composite score 23 or above with minimum of 19 in English or SAT Composite score 1070 with a minimum of 500 in Critical Reading or qualifying score on Asset test. Qualified students may take a maximum of 6 hours of college credit per semester.

LENGTH OF COURSE:

One year

TEXT:

As required by college

FEE:

Students living within Houston Community College District—no fee. Students living outside the college district pay additional fees to the college.

SS 670

Introduction to Sociology

1/2 credit— Junior, Senior

CONTENT:

This course introduces students to sociology. This course combines a look at the American mainstream and contrasts it with sub-cultures and elements of diversity within our nation. Students investigate change and peoples’ ability to deal with change. Students develop tools to evaluate where our society has been and its trek into the future. Students examine topics of current importance such as child abuse, alcoholism, racism, the women’s movement, and religion. Mass media and other popular structures of society such as art and fads will be examined.

SKILLS:

Students will be better able to understand the problems and complexities of current and future society. Students will gain exposure to art, culture, religion, mass media, and current vents.

PREREQUISITES: None
LENGTH OF COURSE: One semester

SS 681 **Academic Team** 1 credit— All Levels

CONTENT: During the class, students will form event groups to study, test, research, grade, practice, and critique each other. Each event will have group a leader. The group leader will report to the teacher with updates on progress, questions, and concerns. Teachers will be able to monitor student progress and aid study groups on a daily basis. Students will also have access to past tests, ballots, and critiques to help them improve every year.

PREREQUISITES: None
LENGTH OF COURSE: One Year

FINE ARTS

<p>FA 600 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Handbell Choir I, II, III, IV</u> 1 credit — All Levels</p> <p>This course is designed to teach students to perform on handbells as an ensemble. They will have opportunities to perform for musical enjoyment at school and community events. Students will develop mental and physical discipline and concentration as well as sight-reading. Many of the current handbell techniques will be learned while playing music from a variety of composers. As skills improve, students will be given the opportunity to perform solos or in small ensembles. This group competes in the TAPPS music competition.</p> <p>Ability to read music and/or count rhythms at the discretion of the director.</p> <p>One year</p>
<p>FA 700 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Auto CAD Drafting</u> 1/2 credit—Sophomore, Junior, Senior</p> <p>Students will explore and receive instruction in basic architecture, engineering, technical theatre, design, art, 3D printing, and many other Computer Aided Design subjects. This course will inspire critical thinking, problem solving, creative thinking and builds math skills. This course will integrate AutoCAD software.</p> <p>None</p> <p>One Semester</p>
<p>FA 704 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Drawing</u> 1/2 credit elective—Sophomore, Junior, Senior</p> <p>This course is a continuation of Visual Foundations with an emphasis on drawing. Both the ability to render real and imaginary will be explored. Students will gain a background of art history from each project.</p> <p>Visual Foundations or the equivalent, 80 or above</p> <p>One semester—Spring/Fall</p>
<p>FA 705 CONTENT:</p> <p>PREREQUISITE: LENGTH OF COURSE:</p>	<p><u>Visual Foundations</u> 1/2 credit elective—all levels</p> <p>This course is designed to give the student a basic understanding and awareness of composition, principles and elements of art. Two-dimensional and three-dimensional forms will be taught.</p> <p>Commitment to excel in artistic abilities</p> <p>One semester</p>
<p>FA 706 CONTENT:</p> <p>PREREQUISITE: LENGTH OF COURSE:</p>	<p><u>Painting</u> 1/2 credit elective—Sophomore, Junior, Senior</p> <p>This course is a continuation of Visual Foundations with an emphasis on color theory instruction to create a variety of painting styles. Students will gain a background in art history through each project.</p> <p>Visual Foundations or the equivalent, 80 or above. Permission of instructor</p> <p>One semester-Spring</p>
<p>FA 708 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Sculpture</u> 1/2 credit elective—Sophomore, Junior, Senior</p> <p>This course is a continuation of Visual Foundations with an emphasis on three-dimensional art and expression. Drawing skills will be finely tuned while sculptural processes will be introduced through a variety of media. Students will gain a background of art history from each project. Additional supplies are required.</p> <p>Visual Foundations or the equivalent, 80 or above.</p> <p>One semester-Fall</p>

FA 714	<u>Studio Art</u>	1/2 credit elective—Junior, Senior
CONTENT:	This course is designed to provide a student the opportunity to build a portfolio. The course is designed to challenge the student’s creativity and ability.	
PREREQUISITES:	Average grade of 80 or above in Visual Foundations and coursework in selected art field (drawing, painting, ceramics, sculpture and photography) along with written permission from instructor prior to registration. Class size is limited. Additional supplies are required.	
LENGTH OF COURSE:	One semester	
FA 717	<u>Studio Art II</u>	1/2 credit elective-Junior, Senior
CONTENT:	This is a continuation of the Studio Art class. Students will continue to build a portfolio. The course is designed to continue to challenge the student’s creativity and ability.	
PREREQUISITES:	80 or above in Visual Foundation, 2 additional art electives, and Studio Art and written permission from the instructor prior to registration.	
LENGTH OF COURSE:	One semester	
FA 718	<u>Ceramics</u>	1/2 credit elective—Sophomore, Junior, Senior
CONTENT:	Students will continue their exploration of 3-D forms using different types of clay as their medium. History of ceramics from ancient times to modern will be studied. Using the elements and principals of design, the students will develop artworks using additive and subtractive building techniques. Pinch, coil, slab, and wheel thrown work will be introduced. All developed pieces will be kiln fired. Sketchbook required.	
PREREQUISITES:	80 or above in Visual Foundations and written permission from the instructor.	
LENGTH OF COURSE:	One semester	
FA 721	<u>Studio Art III</u>	1/2 credit elective-Junior, Senior
CONTENT:	This is a continuation of the Studio class. Students will apply the technical knowledge gained from previous art courses in advanced problem solving. New technical skills will be introduced to further enhance the students’ knowledge. The students’ personal interpretation and expression will be emphasized in the class.	
PREREQUISITES:	80 or above in Visual Foundation, 2 additional art electives, and Studio Art and written permission from the instructor prior to registration.	
LENGTH OF COURSE:	One semester	
FA 722	<u>Studio Art IV</u>	1/2 credit elective- Senior
CONTENT:	This is a continuation of the Studio class. Students will apply the technical knowledge gained from previous art courses in advanced problem solving. New technical skills will be introduced to further enhance the students’ knowledge. The students’ personal interpretation and expression will be emphasized in the class.	
PREREQUISITES:	80 or above in Visual Foundation, 2 additional art electives, and Studio Art and written permission from the instructor prior to registration.	
LENGTH OF COURSE:	One semester	
FA 719	<u>Digital Photography</u>	1/2 credit elective, All Levels
CONTENT:	Students will learn how to photograph, digitally edit, and print photos using digital cameras, Adobe Photoshop, and ink jet printers. Students are expected to master the fundamental principals of design, lighting, basic digital camera operation, and computer photography software. Students must have a digital camera, work in a program mode; \$20 for printing cost for supplies.	
PREREQUISITES:	None	
LENGTH OF COURSE:	One semester	

<p>FA 720 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Graphic Design Techniques</u> 1/2 credit elective—All Levels</p> <p>This course is a continuation of Visual Foundations with an emphasis on visual communications and advertising/print media. Students will focus on projects that are design based and include positive/negative space, color, composition, print, logotypes, layout and typography. Multimedia concepts and studio techniques geared toward a complete visual presentation will be utilized. Sketchbook required.</p> <p>None One semester</p>
<p>FA 723 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Intermediate Digital Photography</u> 1/2 credit elective – Sophomore, Junior, Senior</p> <p>Students will learn intermediate photography concepts and increase skills in the use of <i>Adobe Photoshop</i>. They will be introduced to diptychs, triptychs, advanced blending and collage and surreal imagery. They will also study shooting styles including photojournalism and fine art. Students will layer masks and create and use vectors. They will also learn printing and papers. Students will complete photography assignments for the Del Sarto yearbook along with individual projects. Additional time outside of class is needed for successful completion of this course. Students must have a digital camera; \$20 for printing cost for supplies.</p> <p>80 or above in Digital Photography. One semester</p>
<p>FA 724 CONTENT:</p> <p>PREREQUISITE: LENGTH OF COURSE:</p>	<p><u>Photojournalism</u> 1/2 credit elective—Sophomore, Junior, Senior</p> <p>Students will experience major objectives to include review camera basics and learn about different lenses, ISOs, shutter speeds and aperture. Composition review on rule of third, balance, repetition, etc. Technical quality will entail metering and bracketing. Faster shutter speeds, panning. Digital – preparing a photo for a publication – color correction, cropping, sharpening, burning, dodging, editing, and organizing system. Caption writing – 5 W and H. Different types of photojournalism: news, feature, sports, student life, portraits, Law, and ethics. Digital Camera; Sketchbook required.</p> <p>Digital Photography One semester</p>
<p>FA 750 CONTENT:</p> <p>PREREQUISITES: LENGTH OF COURSE:</p>	<p><u>Acting I</u> 1/2 credit—All Levels</p> <p>Acting I introduces basic acting skills. Knowledge of the areas of the stage and stage blocking will be addressed. Theatre games and improvisations will be an important element of the class to promote quick thinking, spontaneous reactions, and creativity. Vocal development using Lessac Voice training will be incorporated into daily exercises. Projection and enunciation will also be practiced and refined. Understanding how to develop a character from the first reading of a script to developing a walk, a talk, mannerisms, and attitude will be discussed and studied. Students will work on monologues and scenes with classmates to showcase their work.</p> <p>None One Semester</p>
<p>FA 751 CONTENT:</p>	<p><u>Acting II</u> 1/2 credit elective—Sophomore, Junior, Senior</p> <p>Students will continue their study of acting skills. Both the actor’s and the director’s points of view will be explored. Students will also focus upon the exploration and analysis of dramatic structure and genres. The course includes an introduction to directing.</p>

PREREQUISITES: Acting I or permission of instructor
LENGTH OF COURSE: One Semester

FA 760 **Technical Theatre II** 1/2 credit – all levels
CONTENT: This course offers continued growth in theatrical design; which includes costume design and scenic design. Students will read plays and evaluate the scripts, using the script analysis to develop design concepts for costumes and scenic elements. Students are required to attend Theater SPX productions. Illustrate the fundamental skills in representing technical ideas through renderings and model building.
Prerequisite: Tech Theatre I
Length of Course: One semester

FA 761 **Theatre Arts I** 1/2 credit elective—all Levels
CONTENT: The study of theater history and basic acting skills are undertaken in this course. Students will be introduced to the basic concepts of theatre arts. Students will use various creative drama techniques to build confidence and trust, stimulate imagination, movement and role-play. Students will research specific genres and periods of theater and will perform both classical and contemporary drama.
PREREQUISITES: None
LENGTH OF COURSE: One semester

FA 763 **Theatre Production** 1/2 credit elective
CONTENT: A performance based course for students who apply, audition and/or interview successfully with the Theatre Director. The class is responsible for a majority of production work done by Theatre SPX. It explores auditions, rehearsal, and production schedules. Students are expected to actively contribute to current and upcoming productions and maintain academic eligibility to do so.
PREREQUISITES: Auditions, and/or application/interviews and permission of the instructor
LENGTH OF COURSE: One semester, fall or spring

FA 764 **Technical Theatre** 1/2 credit elective –all levels
CONTENT: Students will understand general principles, techniques, methods, and skills used in theatrical design; which includes costume design and scenic design. Students will read plays and evaluate the scripts, using the script analysis to develop design concepts for costumes and scenic elements. Students are required to attend Theater SPX productions. Illustrate the fundamental skills in representing technical ideas through renderings and model building.
PREREQUISITES: None
LENGTH OF COURSE: One semester, fall or spring

FA 765 **Stagecraft I** 1/2 credit elective—Sophomore, Junior, Senior
CONTENT: Students will learn the basics of construction in theatre. This is a “hands-on” course where students will assist in creating set pieces for school productions. Students will learn how to correctly use tools, hardware and materials.
PREREQUISITES: Must attend all semester drama Theatre SPX productions. Students must bring their own change of clothes for work in class.
LENGTH OF COURSE: One semester

FA 766 **Stagecraft II** 1/2 credit elective—Sophomore, Junior, Senior
CONTENT: Students will learn the basics of construction in theatre. This is a “hands-on” course where students will assist in creating set pieces for school productions. Students will learn how to correctly use tools, hardware and materials.

PREREQUISITES:	Stagecraft I with a grade of 80% or better in Stagecraft I and permission of the instructor required – must attend all semester Theatre SPX productions. Students must provide their own change of clothes to for work in class.
LENGTH OF COURSE:	One semester
FA 768 & CONTENT:	<u>Stagecraft III & IV</u> 1/2 credit elective – Senior priority Students will learn the basics of construction in theatre. This is a “hands-on” course where students will assist in creating set pieces for school productions. Students will learn how to correctly use tools, hardware and materials. Students will be held responsible for being crew leaders in class.
PREREQUISITES:	Stagecraft I & II with a grade of 85% or better in Stagecraft II and recommendation from the instructor is required – Must attend all semester Theatre SPX productions. Students must provide their own change of clothes to work in.
FA 770 CONTENT:	<u>Band I</u> 1 credit elective—all levels 1/2 PE or Fine Arts credit given for marching band for fall semester only This course is designed to teach students to perform on a as an ensemble and/or soloist. They will have opportunities to perform for musical enjoyment at school and community events. Students will develop mental and physical discipline, concentration and memorization skills. Students learn to play music of different composers and different styles. They are provided opportunities to develop responsibility, gain knowledge of band literature, and improve technical proficiency and creative self-expression both individually and as group participants.
PREREQUISITES:	Beginning skills on an instrument. Marching and concert uniforms provided by the school Band t-shirts/shorts/socks. Rehearsals are scheduled before and after school.
LENGTH OF COURSE:	One year
FA 771	<u>Band II</u> 1 credit elective—Sophomore, Junior, Senior 1/2 credit PE or Fine Arts given in fall semester only
FA 772	<u>Band III</u> 1 credit elective—Junior, Senior 1/2 credit PE or Fine Arts given in fall semester only
FA 773	<u>Band IV</u> 1 credit elective—Senior 1/2 credit PE or Fine Arts given in fall semester only
FA 774 CONTENT:	<u>Beginning Band</u> 1 credit elective—Sophomore, Junior Designed for students with an interest in learning to play an instrument in the band with little or no previous music instruction. Students will learn introductory skills on a variety of instruments and begin to learn to read music.
PREREQUISITES:	Students will need access to the instrument of their choice through purchase or rental from outside sources.
LENGTH OF COURSE:	Year long
FA 776 CONTENT:	<u>Percussion</u> 1 credit elective—all levels 1/2 credit PE or Fine Arts given in fall semester only Students who play percussion in the SPX Band will study all the instruments in the percussion section including the drumline instruments. Students will perform with the SPX Marching Band and Concert Band. Percussion students will attend the TAPPS State Drumline Contest, TPSMEA Marching Contest, all football games and pep rallies, TAPPS State Solo and Ensemble Contest, TPSMEA Solo and Ensemble Contest, TAPPS State Concert and Sight-reading Contest and all concerts at school and around the community.
PREREQUISITES:	Students need to be in Band I, II, III, or IV, or have Director’s approval.

LENGTH OF COURSE: One Year

FA 779 **Music Appreciation** 1/2 fine arts credit, Junior, Senior

CONTENT: A general survey of music literature. We will study different periods of music using composers and their works through recordings, videos and live performances. In music appreciation, you will also learn the history of music from the early ages to present day. You'll also discuss how music affects society and the value it holds with the human population. How music was first created and has changed over time will be studied as you explore music in every genre.

PREREQUISITES: None.

LENGTH OF COURSE: One Semester

FA 780 **Dance I** 1/2 credit—all levels, Fine Arts or PE credit given.

CONTENT: Students will learn applicable dance vocabulary. Students will acquire fundamental skills in ballet, lyrical, Hip Hop jazz, modern dance, tap, and much more! Students will explore creative expression through movement and develop awareness of space, time, force and energy. Self-confidence will be developed through use of the body as an expressive instrument in class and in an end of term performance in the spring.

PREREQUISITES: Students will need participation attire including leotard, tights, t-shirt and appropriate shoes.

LENGTH OF COURSE: One semester

FA 781 **Dance II** 1/2 credit—All Levels, Fine Arts or PE credit given.

CONTENT: Continuation of Dance I with an emphasis on more Honors material. Faster paced course with more attention to details of ballet, modern, jazz, and tap dance techniques. Students will learn applicable dance vocabulary. Students will acquire fundamental skills in ballet, modern, jazz and tap dancing. Students will explore creative expression through movement and develop awareness of space, time, force and energy. Self-confidence will be developed through use of the body as an expressive instrument.

PREREQUISITES: Dance I. Students will need participation attire including leotard, tights, t-shirt and appropriate shoes.

LENGTH OF COURSE: One semester

FA 790 **Chorus IA (Fall)** 1 credit elective—all levels - Chorus may be taken for no credit upon signing official waiver

Chorus IB (Spring) 1/2 credit elective—all levels - Chorus may be taken for no credit upon signing official waiver. The vocal ensembles and choristers compete annually each spring in the TAPPS Solo and Ensemble music competition.

CONTENT: This course is designed to introduce students to fundamental vocal music skills and active music making including mastery of skills and artistry. The vocal ensemble is trained in the classical *Belle Canto* style of music and includes interpretation and performance of a variety of music literature from Baroque to Broadway. Choristers participate and are graded on their participation in the production of winter concerts, holiday concerts, fall pop shows, and liturgical music ministry service. Emphasis will be placed on the discipline of the mental tools of creativity, communication, critical assessment, and commitment.

PREREQUISITES: Each chorister is responsible for purchase of his/her uniform – female \$90, male \$125 (may be deferred by scholarship and/or fundraising).

LENGTH OF COURSE: One semester – Fall or Spring

FA 791	<u>Chorus IIA</u> (Fall) <u>Chorus IIB</u> (Spring)	1/2 credit elective, all levels 1/2 credit elective, all levels
	The vocal ensembles and choristers compete annually each spring in the TAPPS Solo and Ensemble music competition.	
CONTENT:	Same as FA 790.	
SKILLS:	Same as FA 790.	
PREREQUISITES:	Chorus IA or IB or permission of the choirmaster. Each chorister is responsible for purchase of his/her uniform –female \$90, male \$125 (may be deferred by scholarship and/or fundraising).	
LENGTH OF COURSE:	One semester – Fall or Spring	
FA 794	<u>Chorus IIIA</u> (Fall) <u>Chorus IIIB</u> (Spring)	1/2 credit elective, all levels 1/2 credit elective, all levels
	The vocal ensembles and choristers compete annually each spring in the TAPPS Solo and Ensemble music competition.	
CONTENT:	This course is designed to promote intermediate skills of musicality for choristers who have been in a secondary vocal music program for a minimum of two years. Content is the same as FA 790.	
PREREQUISITES:	Chorus IIA or IIB or permission of the choirmaster. Each chorister is responsible for purchase of his/her uniform – female \$90, male \$125 (may be deferred by scholarship and/or fundraising).	
LENGTH OF COURSE:	One semester – Fall or Spring	
FA 795	<u>Chorus IVA</u> (Fall) <u>Chorus IVB</u> (Spring)	1/2 credit elective, all levels 1/2 credit elective, all levels
	The vocal ensembles and choristers compete annually each spring in the TAPPS Solo and Ensemble music competition.	
CONTENT:	This course is designed to promote intermediate skills of musicality for choristers who have been in a secondary vocal music program for a minimum of two years. Content is the same as FA 790.	
PREREQUISITES:	Chorus IIIA or IIIB or permission of the choirmaster. Each chorister is responsible for purchase of his/her uniform - female \$90, male \$125 (may be deferred by scholarship and/or fundraising).	
LENGTH OF COURSE:	One semester – Fall or Spring	
FA 800, 801 & 802	<u>Campus Singers I, II & III</u>	FA 800 – 1 credit elective, Sophomore, Junior or Senior FA 801 – 1 credit elective, Junior or Senior FA 803 – 1 credit elective, Senior
CONTENT:	This course is designed for the performing musician of Honors musicality. The vocal ensemble is trained in the classical <i>Belle Canto</i> and musical comedy style of interpretation and performance of a variety of music literature including classical repertoire as well as show tunes from Broadway to Hollywood. Singers participate and are graded on their participation in the production of winter concerts, holiday concerts, fall pop shows, and liturgical music ministry service. The vocal ensembles and choristers compete annually each spring in the TAPPS Solo and Ensemble music competition. Emphasis will be placed upon the discipline of the mental tools of creativity, communication, critical assessment, and commitment.	
PREREQUISITES:	Previous choral participation at SPX or another secondary school or permission of the choirmaster. FA 801 and FA 803 require FA 800 or FA 801 respectively or permission of the choirmaster. Students must audition for placement in the course prior to spring registration and before the end of school the preceding year.	

Incoming transfer students may audition in the summer by appointment. Uniform fees – female concert \$90 and pop \$150, male concert \$125 and pop \$75(may be deferred by partial/full scholarship and/or payment plan; some pop sizes available for rent @ \$35.00).

LENGTH OF COURSE:

One year

BUSINESS

<p>BS 915</p> <p>CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Personal Finance</u> 1/2 credit elective —Junior, Senior</p> <p>Personal Finance is a one semester course which provides the opportunity to learn everyday “life-skills” including money management, personal recordkeeping, career opportunities and economic risk factors through applications.</p> <p>None</p> <p>One semester</p>
<p>BS 919</p> <p>CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Business and Personal Law</u> 1/2 credit elective, Fall or Spring Junior, Senior</p> <p>This course introduces the fundamentals of business and personal areas of law that are of interest to the student. The course will expose the student to our legal system, forms of business organization, fundamentals of contract law, business ethics, and other legal realms affecting today’s society and students.</p> <p>None</p> <p>One semester</p>
<p>BS 921</p> <p>CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>International Business</u> 1/2 credit elective, spring—Junior, Senior</p> <p>The course will provide a foundation for studying international business and will cover aspects of conducting business in the global economy. The student will observe how international businesses are dependent upon various factors such as national economies, societies and cultures.</p> <p>None</p> <p>One semester</p>
<p>BS 925</p> <p>CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Career Exploration</u> 1/2 credit elective, fall or spring—Junior, Senior</p> <p>Students may assist in the Library, Counseling, Advancement, Information Technology and/or Admissions offices. Students will develop organizational and social skills needed for library and office work. Tasks include work appropriate in each office or area. Grading is based on work ethic, conduct, punctuality and participation. Participation covers: demonstrating initiative, accomplishing assignments, working without constant supervision, positive and helpful attitude.</p> <p>Counselor, Librarian or other area supervisors’ approval</p> <p>One semester</p>

COMPUTER SCIENCE

CS 941	<u>Introduction to Multimedia with Computers</u> 1/2 credit elective—all levels
CONTENT:	This course is designed to study the fundamentals of keyboarding, word processing, spreadsheets, databases, the Internet, and multimedia presentation software. All instruction will take place on networked multimedia computers. Students will be introduced to productivity software packages including Microsoft Word, PowerPoint, Excel, Publisher and Access. Students will integrate tools from these packages to design a final project.
PREREQUISITES:	None.
LENGTH OF COURSE:	One semester
SOFTWARE:	Edotyping Keyboarding Online, Microsoft Office 2013, PowerPoint 2013
CS 942	<u>Computer Science I</u> 1/2 credit elective—Sophomore, Junior, Senior
CONTENT:	This course is designed to introduce students to the “computational thinking” of Computer Science. The goal is to help students understand the common terminology used in Computer Science. The student is introduced to the elements of program design and implementation, using graphical simulations which resemble computer games although their underpinnings form the basis of computer programming. In a graphical environment, students will learn to create programs which make decisions and respond to keyboard and mouse clicks.
PREREQUISITES:	Algebra I
LENGTH OF COURSE:	One semester
SOFTWARE:	Scratch and Processing
CS 943	<u>Honors Computer Science II</u> 1/2 credit elective—Sophomore, Junior, Senior
CONTENT:	An Honors course designed to study the fundamentals of structured and object-oriented programming. Emphasis is placed on how to divide a problem into manageable parts and think in logical and creative ways to design, write, and debug programs.
PREREQUISITES:	Computer Science I
LENGTH OF COURSE:	One semester
Software:	Processing, JCreator, and Java
CS 944	<u>Web Page Design</u> 1/2 credit – sophomore, Junior, Senior
CONTENT:	This is an introduction to the design, creation, and maintenance of web pages and websites. Students learn how to critically evaluate website quality; learn how to create and maintain quality web pages; learn about web design standards and why they’re important; and learn to create and manipulate images. The course progresses from introductory work on web design to culminating project demonstrating the breadth of web technologies learned throughout the course.
PREREQUISITES:	Multimedia or demonstrated proficiency in keyboarding.
LENGTH OF COURSE:	One semester
SOFTWARE:	Adobe Photoshop, Microsoft Notepad, and various web browsers
CS 946	<u>Video Technology I: Intro to Movie Making</u> 1/2 credit/fall – Junior, Senior
CONTENT:	Students will be introduced to the production process and team and filming techniques. The topics in this course will include: the production crew, organizing a production, writing for video and film, and shooting techniques. The course provides introductory training in the creation of scripts, storyboards, short films and filming in a variety of environments. Students will learn to film, edit and combine a variety of digital media into one cohesive production. Students will acquire

electronic information in a variety of formats including text, audio, video and graphics and learn to cite all sources researched and obtained from the Internet.
None

PREREQUISITES:

LENGTH OF COURSE:

One semester – fall

CS 948

CONTENT:

AP Computer Science

1 credit elective – Junior, Senior

AP Computer Science emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development and is meant to be the equivalent of a first-semester college level course in Computer Science. It also includes the study of data structures, design, and abstraction.

PREREQUISITES:

LENGTH OF COURSE:

SOFTWARE:

Honors Computer Science II and approval of the instructor.

One year.

JCreator and Java

PHYSICAL EDUCATION/ATHLETICS

<p>PE 961 CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Physical Education I</u> 1/2 credit – All levels</p> <p>The Physical Education I course emphasizes the importance of continued physical activity and the overall impact it has on life expectancy. Knowledge and skills of movement are acquired to enable the student to pursue a physically active lifestyle and to understand the relationship between physical activity and overall health throughout a life span. The students will explore different styles of exercise and learn the proper etiquette and safety rules of the Weight Room.</p> <p>None</p> <p>One semester</p>
<p>PE 952 CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Physical Education II</u> 1/2 credit—sophomore, Junior, Senior</p> <p>Physical Education II emphasizes health-related fitness and an appreciation for teamwork and fair play through team sports. Students will gain knowledge of physical activity and health components that may be used throughout life. Students will demonstrate a competency in many movement forms and proficiency in three or more team sports.</p> <p>None</p> <p>One semester</p>
<p>PE 953 CONTENTS:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Drill Team</u> 1 PE credit—All levels</p> <p>Pantherettes is a performing, precision dance-drill team. The squad performs at all football games, pep rallies and other major home and away athletic events. They serve as representatives of the school when asked, and participate in state and local competitions.</p> <p>Tryouts. Uniform and transportation costs paid by each member.</p> <p>One year. Fulfills PE credit requirement.</p>
<p>PE 954 CONTENT:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p>	<p><u>Health</u> 1/2 credit—Freshman/woman</p> <p>Good health is determined by meeting the physical and emotional needs of the body. This course divides the curriculum into four major areas: knowledge of one’s physical self, knowledge of one’s emotional self, elements which add to one’s health and elements which take away from one’s health. Presenting the facts and allowing the students to make sound decisions based on knowledge rather than myth or hearsay are the crux of this course.</p> <p>None</p> <p>One semester</p>
<p>PE 959 CONTENTS:</p> <p>PREREQUISITES:</p> <p>LENGTH OF COURSE:</p> <p>TEXT:</p>	<p><u>Physical Education III</u> 1/2 credit-Sophomore, Junior, Senior</p> <p>Students will participate in a range of individual sports selected by the instructor. Students will acquire movement knowledge and skills that provide the foundation for enjoyment and continued social development through physical activity. Student selections of individual sport activities that are enjoyable are a major objective of this course.</p> <p>None</p> <p>One semester</p> <p>None</p>
<p>PE 955, 957 CONTENT:</p>	<p><u>Athletics—Women</u> 1 credit—Sophomore, Junior, Senior</p> <p>During the course women have the option of participating in the following sports: volleyball, basketball, swimming, track, softball, cross- country, golf, soccer, rugby,</p>

	lacrosse and tennis. Required during and after school are: practice, competing against other schools, and following the regulations of the Athletic Department.
PREREQUISITES:	None
LENGTH OF COURSE:	One semester
PE 956, 958	<u>Athletics—Men</u> 1 credit—Sophomore, Junior, Senior
CONTENT:	During the course men have the options of participating in the following sports: football, basketball, swimming, track, baseball, cross-country, golf, soccer, rugby, lacrosse and tennis. Required during and after school are: practice, competing against other schools, and following the regulations of the Athletic Department.
PREREQUISITES:	None
LENGTH OF COURSE:	One semester
PE 960	<u>Cheerleading</u> 1/2 credit—all levels Fall and Winter
CONTENT:	The cheerleading squads perform at all football games, pep rallies and other major athletic events. They serve as representatives of the school and participate in competitions.
PREREQUISITES:	Tryouts in spring.
LENGTH OF COURSE:	One semester
PE 962	<u>Color Guard</u> 1/2 credit—all levels Fall
CONTENT:	The Panther guard is a performing color and winter guard team. The team performs at all home games as well pep rallies and other major events. They serve as representatives of the school and as a spirit organization.
PREREQUISITES:	None
LENGTH OF COURSE:	One year.
PE 994, 996	<u>Panther Performance Training Fall/Spring Boys</u> 1/2 credit, 10,11,12 grades
CONTENT:	Panther Performance Training is an elective course that provides advanced programs in strength and conditioning, mental conditioning, athletic body management, life skills and leadership training. This program uses Olympic lifts and their variations along with other exercises containing plyometric properties, high intensity total body strength building exercises, controlled recovery, movement preparatory exercises, body positioning critique and researched periodization
PREREQUISITES:	None
LENGTH OF COURSE:	One semester fall/spring
PE 995, 997	<u>Panther Performance Training Fall/Spring Girls</u> 1/2 credit 10,11,12 grade
CONTENT:	Panther Performance Training is an elective course that provides advanced programs in strength and conditioning, mental conditioning, athletic body management, life skills and leadership training. This program uses Olympic lifts and their variations along with other exercises containing plyometric properties, high intensity total body strength building exercises, controlled recovery, movement preparatory exercises, body positioning critique and researched periodization
PREREQUISITES:	None
LENGTH OF COURSE:	One semester fall/spring