

# St. Pius X Catholic High School

## 2025-2026 Program of Studies

### ***VISION STATEMENT***

We, the Catholic community of St. Pius X High School, strive to maintain recognized excellence in all educational programs for students of all abilities. We strive to impart Christian principles to students preparing them to be productive and contributing members of a global society. We, as members of the St. Pius X High School community, seek to challenge each other to become life-long learners in mind, body, and spirit.

### ***MISSION STATEMENT***

St. Pius X High School is a Catholic community dedicated to the education of the whole person in an environment where extraordinary care and concern for the individual is ordinary.

### ***EDUCATIONAL GOALS***

The St. Pius X Catholic High School graduate will...

- Bring an energized renewal to the Church by pursuing timeless truths in the tradition of Pope Pius X.
- Articulate the key elements of the Catholic faith and model Catholic behaviors.
- Build relationships with positive team building and leadership skills.
- Understand and develop individual learning styles in order to participate in the enjoyment of lifelong learning for mind, spirit, and body.
- Communicate ideas and opinions effectively, clearly, and concisely both orally and in written format.
- Embrace a rigorous approach to learning, while connecting academics to relevant world applications.
- Read, research, process, and present information from a variety of valid resources including the ethical use of Artificial Intelligence (AI).
- Respect human diversity and the international community.

### **TABLE OF CONTENTS**

Educational Policies	2
Business and Technology Department	5
English Department	8
Fine Arts Department	12
Mathematics Department	16
Science Department	19
Social Studies Department	23
Theology Department	28
Wellness Department	31
World Language Department	33

## EDUCATIONAL POLICIES

In planning for the upcoming school year, all students should keep in mind that a minimum of 28 credits is necessary to graduate from St. Pius X. Courses with fewer than 10 students will be canceled.

### GRADUATION REQUIREMENTS

#### General Education/College Prep

<i>Course</i>	<i>Required Unit</i>
Theology (Theology I, II, III, IV)	4
English/Language Arts (Eng I, II, III, IV)	4
Mathematics (4 are recommended for college prep)	3
Social Studies (Am Hist and passing grades on US and Missouri Constitution tests required)	3½
Science (4 are recommended for college prep)	3
Fine Arts	1
Practical Arts (Personal Finance required)	1
Wellness (Wellness, Fitness, and Cross Training)	2½
World Language (Two units of same language are <b>recommended</b> by many colleges, <b>required</b> by some)	2
Elective Credits	4-8
Community Service	104 hrs
Lancer Academy Credits	3
Senior Capstone Project	
<b>Total Graduation Credits</b>	<b>31-35</b>

All students must register for no fewer than 8 credits which must be distributed evenly in both semesters. Juniors and Seniors may apply for a study hall. Students are encouraged to plan their

course of studies with counselors and teachers with three major ideas in mind: the fulfillment of basic course requirements, future career or profession, and academic strengths and preferences.

### COLLEGE CREDIT PROGRAM

College credit programs offered at St. Pius X are sponsored by Saint Louis University (SLU-ACC) and the University of Missouri -St. Louis (UM-St. Louis-ACP). In this program a junior or senior maintaining a 3.0 cumulative grade point average may enroll in college level courses and simultaneously register at SLU and/or UM-St. Louis. The student receives a report card from SLU or UM-St. Louis upon successful completion of the courses. After high school graduation, an official transcript from SLU and/or UM-St. Louis is sent to the college or university the student plans to attend. The credits are honored with limited exceptions because they are sent, at a student's request, as transfer credits from one university to another.

At present St. Pius X offers college course electives in English, Math, Social Studies, and Spanish. Students participating in the program should have the ability, motivation and maturity to begin their college education in advance of high school graduation.

PREREQUISITES for the college courses are listed in the curriculum guide.

### STUDENT CLASSIFICATION:

In order to acquire the necessary 28 credits to graduate, the following student classification system is in effect:

**TO BE A FRESHMAN**, a student must have passed the 8th grade or must have successfully made up failures in summer school.

**TO BE A SOPHOMORE**, a student must have passed all required Grade 9 courses and have

merited at least 7.000 credits and have completed the [required service hours](#).

**TO BE A JUNIOR**, a student must have passed all required Grade 10 courses and have merited at least 14.000 credits and have completed the [required service hours](#)

**TO BE A SENIOR**, a student must have passed all required Grade 11 courses and have merited at least 21.000 credits and have completed the [required service hours](#).

**TO BE A GRADUATE**, a student must have passed all required Grade 12 courses and have merited at least 28.000 credits and have a minimum of 104 service hours.

Seniors who do not pass all required Grade 12 courses, who do not have at least 28 credits, and have not completed 104 service hours may not be allowed to participate in the graduation ceremony.

Students lacking overall credits to move on to the next grade level must make-up the necessary credits either at summer school or a correspondence course approved by the principal.

### **[COURSE PLACEMENT](#)**

Students at St. Pius are placed in courses according to results of standardized tests, department approval, and with parental approval. No change to a lower or higher ability level in a given course will be made without consulting both student and parents and without permission of the principal. If it becomes necessary to remove a student from a course for reasons other than ability level, the principal will be the final judge in this matter.

### **[ABILITY LEVELING](#)**

**HONORS LEVEL COURSES** are designed to challenge students who typically earn very high grades and score above the 85<sup>th</sup> percentile on standardized tests. A proficient or advanced Lexile reading level is also required.

**COLLEGE CREDIT COURSES**, in conjunction with St. Louis University and University of Missouri-St. Louis, merit actual college credits and are offered to students who have proven exceptional ability and effort in specific fields and who meet requirement criteria.

**DEPARTMENT RECOMMENDATION** and/or **APPLICATION** are required for some courses, including all honors courses, before the student is allowed to register.

### **[Policies for Change of Schedule](#)**

Changes may be initiated for the following reasons:

- 1) Scheduling error
- 2) Inappropriate course level
- 3) Graduation requirements
- 4) Health considerations
- 5) Teacher recommendation

The following procedure will be followed in considering schedule changes:

- Meet with the registrar
- Written permission from parents, faculty member from whose class the student is withdrawing and/or enrolling, and Principal
- Payment of \$25.00 fee for course registration change—this applies to all changes requiring clerical adjustments
- If a student wishes to drop a course and add a different one, the request must be made on or before the completion of the first cycle of classes. Change requests after that time must be initiated by the teacher.
- No request will be honored which involves a change from one section of a course to another section

### **[GRADE EQUIVALENTS](#)**

A	92.5-100%
B	84.5-92.49%
C	76.5-84.49%

D	69.5-76.49%
F	0-69.49%

***SEMESTER COURSE FAILURES*** in a required course, must be made up before the next school year begins. An elective course can be made up at St. Pius, if available, or at a principal-approved institution. All make-up courses are paid by the student. Make-up courses do not count toward GPA.

***CREDIT*** is the value placed on a course. Subjects which meet four days per cycle merit one full credit per year. Subjects meeting four days per cycle for one semester or two days per cycle for a year yield one-half credit.

Courses available at St. Pius may not be taken elsewhere except in the case of a failed course.

***GPA (GRADE POINT AVERAGE)***

Grade points are calculated by the computer each semester. Grade points are not awarded in pass/fail courses, summer school courses (other than St. Pius courses), independent courses, summer enrichment programs, or credit recovery courses.

## BUSINESS AND TECHNOLOGY DEPARTMENT

The Business and Technology Department of St. Pius X High School provides an extensive and comprehensive program that provides relevant, authentic, and real-life learning experiences. The department is committed to preparing students for a rapidly changing world by expanding each student's knowledge, experience, and skills in business and computer technology. We believe the knowledge, skills, and ethics taught are essential for dynamic, life-long participation in a global and informational society—promoting success in one's personal life, college study, and career choice. Our goal is to restructure the course offerings to include information and skills that are relevant and authentic and applicable to experiences our students will face now and in the post-secondary world.

Business and Technology Courses	Course Length	Freshman	Sophomore	Junior	Senior
College and Careers	Either Sem		X		
Personal Finance	Either Sem			X	X
Personal Finance:CC	Either Sem			X	X
Digital Media	Sem 1		X	X	X
Coding	Either Sem		X	X	X
Accounting IA	Sem 1			X	X
Accounting IB	Sem 2			X	X
Marketing	Sem 2		X	X	X
Yearbook	Year		X	X	X
Yearbook:Hon	Year			X	X
Video Production (2 year limit)	Year		X	X	X
Robotics	Sem 2			X	X

### BUS01 COLLEGE AND CAREERS

GRADE 10 required ½ CR SEM  
*PREREQUISITE: none*

College and Careers addresses the decision-making process of the successful life path from high school to career, including career exploration, college or educational exploration, paying for college, and the development of employment skills. The goal of this course is to look at the next 40-50 years of their lives and gain a perspective of the big picture of life. Students will consider their high school years in connection with post-secondary education along with a 40+ year working career until retirement.

### BUS02 PERSONAL FINANCE

GRADE 11-12 required ½ CR SEM  
*PREREQUISITE: none*

Students will learn how to handle economics in everyday life. Topics to be covered include career choices, types of bank accounts, handling credit including loans and credit cards, planning for retirement, paying for college, and investments. These are necessary life skills that all consumers should know.

### **BUS03 DIGITAL MEDIA**

GRADE 10-12

½ CR SEM

*PREREQUISITE: none*

Course offers a creative outlook at different software applications. This self paced class allows students to complete projects that make use of Graphic Design, Storyboard Creation, Contemporary Media (i.e. podcasts), Vocal Recordings for applying voices to an animated film and Vocal Dubbing with Foreign Animation. By the end of this course students will have an understanding of digital media by the end of this course.

### **BUS04 CODING**

GRADE 10-12

½ CR SEM

*PREREQUISITE: none*

Coding is an introduction to the theory and practice of basic computer programming. Students will gain an understanding of what code is and how it works. This class is an excellent first course for someone who is interested in programming. Students will focus on object-oriented programming utilizing programs such as the MIT program SCRATCH or App Inventor. Students will be introduced to a variety of programming languages with an emphasis on HTML, CSS & JavaScript.

### **BUS05 ACCOUNTING IA**

GRADE 11-12

½ CR SEM

*PREREQUISITE: none*

The course will provide students, who are interested in the daily activities of owning or managing a business, with a strong foundation in basic accounting principles. Students will learn what business transactions are and how accountants use a double-entry system (debits and credits) to keep track of these transactions. Students will study the complete accounting cycle of recording transactions, preparing

financial statements, and "closing the books" for small, single-owner service and merchandising businesses. This course prepares students for post-secondary accounting courses.

### **BUS06 ACCOUNTING IB**

GRADE 11-12

½ CR SEM

*PREREQUISITE: Accounting IA*

This second semester course is career oriented and is designed for those students hoping to pursue an accounting or related business career. Students will start to understand generally accepted accounting principles, budgeting, inventory and supply management, depreciation, account management, and basic tax rules. Students will review the basic accounting principles learned in Accounting I and will build upon those principles. Corporate accounting is the basis of the study of financial accounting, however, we will also consider the areas of Managerial, Cost, and Tax accounting.

### **BUS07 MARKETING**

GRADE 10-12

½ CR SEM

*PREREQUISITE: none*

This course will cover all of the basic elements of marketing in real-world business environments. The class will be mainly project based and will provide students with the opportunity to write proposals and make business-level presentations. Advanced computer applications emphasized in this course.

### **BUS08 YEARBOOK**

GRADE 10-12 1 CR YR  
*PREREQUISITE: Teacher recommendation*

The members of this class will design all elements of the yearbook, including cover design or selection, page layouts, copywriting, and photography. There will be extensive use of technology for publication, including digital cameras and photo editing software and yearbook production software. In addition, students will create a Senior slideshow. Students are only allowed to take yearbook/yearbook:hon for two years.

### **PRA09 YEARBOOK:HON**

GRADE 11 or 12 1 CR YR  
*PREREQUISITE: Teacher recommendation*

In addition to designing all elements of the yearbook, including cover design or selection, page layouts, copywriting, and photography, the members of this class will plan and schedule all deadlines for yearbook production. They will train and mentor Junior members of the class and prepare formal lessons and activities to promote development of skills. Additionally, seniors will manage the yearbook budget by ensuring that production schedules are met and sales are completed.

### **BUS 10 VIDEO PRODUCTION**

GRADE 10-12 1 CR YR  
*PREREQUISITES: none*

This one year course is designed for the study of basic to advanced elements of video creation. Over the year students will begin with lectures in the first half of the 1st semester on all the basics of Camera Operation, Sound Capture & Design, Lighting, Editing use Industry Standard Software, Production Method, and how to write a Script. Demonstrations of high end camera, sound and lighting equipment will give students a hands-on experience. Each lecture also coincides with a

project based on what the student has learned in that section. After learning what goes into using the equipment students will then participate in group projects such as a Documentary (Mid-Term Project), getting hired as a Videographer for a specific faculty or staff member and then their final project which is a Narrative Short film. Both the Documentary and Short film will be presented at the end of the year with a Film Festival. By the end of the year students will have what it takes to go right into film school in college or become a videographer right out of high school.

### **BUS11 ROBOTICS**

GRADE 11-12 ½ CR SEM  
*PREREQUISITE: Coding or equivalent*

This course will involve basic electronics technology and will teach students how to design, create, diagnose and repair robotic functions using the Engineering Process. Through classroom lectures, videos, and hands-on experience, students will work with basic robotic components (Lego Mindstorm) to diagnose, engineer and solve “real world” issues & problems. They may also work with C++ and Object-Oriented programming languages.

### **BUS12 PERSONAL FINANCE:CC**

GRADE 11-12 required ½ CR SEM  
*PREREQUISITE: Teacher recommendation. 3 hours of college credit available requires a minimum GPA of 3.0 on a 4.0 scale.*

Students will learn about personal finance and how to better manage their resources. The topics include purchasing/leasing cars, home acquisitions, investing in stocks and bonds, mutual funds, retirement planning, and health and life insurance. This course moves at a faster pace and is more in depth.



## ENGLISH DEPARTMENT

The St. Pius X High School English Language Arts Department in alignment with the National Council of Teachers of English Standards would like the St. Pius graduates to have the “opportunities and resources to develop language skills they need to pursue life’s goals and to participate fully as informed, productive members of society.”

English Courses	Course Length	Freshman	Sophomore	Junior	Senior
Elements of Literature & Composition I	Year	X			
Elements of Literature & Composition I:Hon	Year	X			
Elements of Literature & Composition II	Year		X		
Elements of Literature & Composition II:Hon	Year		X		
Literary Analysis	Year			X	
American Literary Masterpieces:Hon/CC	Year			X	
Modern Literature Studies	Year				X
Composition & Literary Types:Hon/CC	Year				X
Film Appreciation	Either Sem				X
Creative Writing	Either Sem		X	X	X

### ENG01 ELEMENTS OF LITERATURE & COMPOSITION I

GRADE 9 required

1 CR YR

*PREREQUISITE: none*

The course includes the practice of writing strategies and techniques. By learning these practices, students will be able to write various short essays that analyze elements of literature. Vocabulary, mechanics, and sentence structure are emphasized through a review of rhetoric and grammar. Students are given a survey of World Literature with an emphasis on the introduction of literature. They will read both classic and contemporary short stories, poetry, drama,

novels, and nonfiction selections. While reading, students will learn literary devices that contribute to plot and the overall theme of the work.

### ENG02 ELEMENTS OF LITERATURE & COMPOSITION I: H

GRADE 9 required

1 CR YR

*PREREQUISITE: 85 percentile on Standardized tests*

The course includes the practice of writing strategies (pre-writing, brainstorming techniques, graphic organizers, revision and



editing) to complete various short essays: personal essay, reflection and analysis, cause and effect, and reader reaction. Vocabulary, mechanics, and sentence structure are emphasized through a review of rhetoric and grammar as well as through the practice of standardized test-taking strategies and skills.

### **ENG03 ELEMENTS OF LITERATURE & COMPOSITION II**

GRADE 10 required 1 CR YR  
*PREREQUISITE: Elements of Lit & Comp I or equivalent*

Elements of Literature II builds upon what was learned freshman year. Literature continues to be a survey of both classic and contemporary works. Studies include short stories, dramas, novels, and various nonfiction selections. Students expand upon writing strategies learned previously, through literary analysis and the composition of a research paper. The course also explores figurative language: metaphor, allusion, assonance, idioms, etc. Vocabulary continues to be a focus of study. The theme of the American dream and Aristotle's tragic hero traits are analyzed throughout both semesters and applied to the literature of study.

### **ENG04 ELEMENTS OF LITERATURE & COMPOSITION II:H**

GRADE 10 required 1 CR YR  
*PREREQUISITE: Elements of Lit & Comp I or equivalent and teacher recommendation*

The honors section of 10th grade English includes a survey of advanced works. This course builds upon skills learned in Elements of Literature I. The reading continues to be a survey of both classic and contemporary literature. Students must be disciplined in completing reading assignments. Students should also be prepared for lengthier readings. In class analysis through discussion is a requirement. Potential

honors students should come to class prepared to discuss and analyze a given reading assignment. The honors section includes material which is thematically mature in nature and will challenge students to think beyond that of a 10th grader.

### **ENG05 LITERARY ANALYSIS**

GRADE 11 required 1 CR YR  
*PREREQUISITE: Elements of Lit & Comp II or equivalent*

This course is a survey of various genres, both classic and contemporary. Literature will include short stories, poetry, drama, novels, and non-fiction selections. Students will also explore issues in modern culture from movies, films, and media outlets. The class emphasizes close reading and reading comprehension skills in order to participate in seminar-style discussions. Critical thinking and writing regarding the texts promote the exchange of ideas in a respectful and academic atmosphere.

Students read literature while considering experiments in language and form. The course stimulates discussion and writing about values and predicaments. Students develop insight into present day life and literature through thoughtful analysis of timely topics.

Students write essays appropriate to particular audiences. In each essay, students develop an expository thesis, as well as two or more sub-points in support of that thesis. Students learn to use rhetorical modes such as comparison-contrast, cause-effect, analogy and classification. In essays students present different forms of evidence from personal experience and reading.

In addition, ACT test prep skills are emphasized through simulating a practice test environment. Students then review answers and discuss how and why certain answers are "better" and how to identify correct answers quickly and accurately during a timed-test. Metacognition awareness

and tips for test readiness are shared and discussed.

### **ENG06 AMERICAN LITERARY MASTERPIECES:HON/CC**

GRADE 11 required 1 CR YR  
*PREREQUISITE: Elements of Lit & Comp II, an A average in all previous Eng classes, A Lexile score of at least 1200, and teacher recommendation. 3 hours of college credit available requires minimum GPA of 3.0 on a 4.0 scale.*

Students in this course will meet the requirements of the Advanced College Credit Program at the University of Missouri-St. Louis. Students receive credit for UMSL's "American Literary Masterpieces" course. This course is taught in a seminar style with emphasis on student-generated topics and questions for discussion – not a simple lecture. Students are expected to be notable or significant contributors to class discussions. The emphasis is on work by American writers from the colonial age up to contemporary works. The course starts with Puritan writings and "The Crucible". The class then works its way forward, moving through the Civil War era – Frederick Douglass, Walt Whitman, etc. – to the twentieth century, including *The Great Gatsby*, *The Maltese Falcon* and ends with modern and contemporary works such as *Extremely Loud and Incredibly Close* and *The Glass Castle*. Contemporary novels taught in the class are subject to change. Studies of literature are enhanced by viewing classic and modern film adaptations of major novels as well as serving as the central text themselves. Students write essays in a variety of genres and practice rhetorical strategies to produce works at the college level. Emphasis is on drafting and revision to produce written works that employ strong use of writing conventions and rhetoric to complete essays in the following genres: personal, persuasive, literary analysis, and research. A serious attitude exemplified through behavior and higher order thinking skills

reflected in writing, speaking and reading comprehension is required.

### **ENG07 MODERN LITERATURE STUDIES**

GRADE 12 required 1 CR YR  
*PREREQUISITE: Literary Analysis or equivalent*

The core of this semester is a survey of international literature with an emphasis on interpreting and responding to literature in all major genres (short story, poetry, drama, and novels). This semester will cover novels, short stories, and plays from the twentieth century forward. Rhetorical strategies are stressed to develop complex essays in various genres including personal reflection, literary analysis, literary criticism, and reader response writings. Students will examine the influences on the text at the time it was written as well as their impact on modern literature and society. We will continue the writing strategies we employed in our reflections, analysis, and criticisms from the first semester through the second semester. There is a heavier emphasis on seminar-style discussion rather than simple lectures and reading comprehension. The Senior Capstone Project will feature as an opportunity to write reflective essays and to assemble portfolios covering their high school careers as practice for future projects at the college/university level.

## **ENG08 COMPOSITION AND LITERARY**

### **TYPES:HON/CC**

GRADE 12 required 1 CR YR

*PREREQUISITE: Literary Analysis or equivalent, an A average in all previous Eng classes, A Lexile score of at least 1200, and teacher recommendation. 6 hours of college credit available requires minimum GPA of 3.0 on a 4.0 scale.*

Students in this course will meet the requirements of the Advanced College Credit Program at the University of Missouri-St. Louis. Students can receive credit for UMSL's "Introduction to Literature" course and "First-Year Writing" course. This course is taught in a seminar style with emphasis on student-generated topics and questions for discussion – not a simple lecture. Students are expected to be notable or significant contributors to class discussions. The core of this course is a survey of British Literature with emphasis on interpreting and responding to literature in all major genres (short story, poetry, drama, and novels). Rhetorical strategies are employed to develop complex essays in various genres including literary analysis, literary criticism, and opposing viewpoints papers. Major authors/texts in this course: *Sir Gawain and the Green Knight*, Shakespeare's "Macbeth", Bram Stoker's *Dracula*, Agatha Christie, Arthur Conan Doyle, and various contemporary novels such as *Atonement* and *Curious Incident of the Dog in the Night-time*. A serious attitude exemplified through behavior and higher order thinking skills reflected in writing, speaking and reading comprehension is required.

## **ENG09 FILM APPRECIATION**

GRADE 12 elective ½ CR SEM

*PREREQUISITE: none*

Film is a popular, informative and fun class. The students watch a variety of films usually by genre (action, horror, biography, romantic comedy, teen

coming of age, western, documentary, etc.), learning about the history of each as we go. Students also are exposed to the elements of filmmaking such as editing, direction, acting, set design, music, etc. They also read a variety of film reviews. The students write essays, do study guides and conduct personal interviews

## **ENG10 CREATIVE WRITING**

GRADE 10-12 elective ½ CR SEM

*PREREQUISITE: none*

The course focuses on the aspects of creative writing. Students will analyze diverse themes and become more familiar with the different genres of the craft including: fiction, nonfiction, narratives, poetry, and plays. Creativity and originality will be the main focus of this course and will be expressed through the form of writing. The students will also learn and form their own strategies of how to avoid "writer's block" and how this greatly affects the writing process. Writing, reading, peer reviewing, and revising are main elements that will contribute to this course and the success of the student. Skills will be assessed by writing activities and a portfolio that will be created at the end of the course. This portfolio will include writing samples from the student over the course of the semester.

## FINE ARTS DEPARTMENT

The St. Pius X High School Fine Arts Department would like the St. Pius graduates to have an “aesthetic awareness, cultural exposure, creativity, improved emotional expression, as well as social harmony and appreciation of diversity”

Fine Arts Courses	Course Length	Freshman	Sophomore	Junior	Senior
Elements of Art	Sem 1	X	X	X	
Principles of Design	Sem 2	X	X	X	
Creative Strategies	Sem 1		X	X	X
Ceramics	Sem 2		X	X	X
Sculpture:Hon	Sem 1			X	X
Art and Theology:Hon	Sem 2			X	X
Proposal:Hon	Sem 1				X
Exhibition:Hon	Sem 2				X
Chorus	Yr or sem	X	X	X	X
Concert Choir	Year	X			
Concert Choir:Hon	Year		X	X	X
Fundamentals of Band	Year	X	X	X	
Concert Band	Year	X			
Concert Band:Hon	Year		X	X	X
Jazz Band:Hon	Year		X	X	X
Music Appreciation	Year	X	X		

### **FAS01 FOUNDATIONS: ELEMENTS OF ART**

GRADE 9-11 elective  $\frac{1}{2}$  CR SEM

*PREREQUISITE: none*

This course will provide a foundation for understanding visual art in terms of its basic elements. Knowing the elements of art, line, shape, color, form, value, texture, and space are the first step in being able to observe, analyze and have meaningful discourse about visual art. Students will demonstrate their understanding of these concepts by making artwork in a variety of 2D materials and creating a series of drawings. Students are encouraged to take a full year of art if they plan to take additional art classes over the next 3 years.

### **FAS02 FOUNDATIONS: PRINCIPLES OF DESIGN**

GRADE 9- 11 elective  $\frac{1}{2}$  CR SEM

*PREREQUISITE: Foundations: Elements of Art*

Building upon the elements of art, students will learn how artists employ the principles of design. The principles of design, balance, contrast, emphasis, movement, pattern, rhythm, unity/variety, help artists to further communicate their ideas and concepts visually. Students will demonstrate their understanding of these concepts by making artwork in a variety of both 2D and 3D materials.

### **FAS03 FOUNDATIONS: CREATIVE STRATEGIES**

GRADE 10- 12 elective                      ½ CR SEM  
*PREREQUISITE: Foundations: Principles of Design*

In this course students will focus on creative problem solving skills, personal expression, developing aesthetic awareness, and an interdisciplinary approach to the artistic process. Material exploration will include, drawing, painting, multimedia, and textiles. It is recommended that students have taken elements of art and principles of design before taking this course. Students will have the possibility to earn honors credit in this course if they meet the appropriate expectations on all projects.

#### **FAS04 FOUNDATIONS: CERAMICS**

GRADE 10- 12 elective                      ½ CR SEM  
*PREREQUISITE: At least a "B" in Foundations: Principles of Design and teacher recommendation*

In this course students will learn the basics of making with clay and an overview of its application throughout culture, art history, and contemporary practices. First, we will learn to build functional pieces using pinch, coil, slab, and throwing techniques. Then we will progress to creating sculptural forms. Students will have the possibility to earn honors credit in this course if they meet the appropriate expectations on all projects.

#### **FAS07 ART AND THEOLOGY:HON**

GRADE 11- 12 elective                      ½ CR SEM  
*PREREQUISITE: Foundations: Creative Strategies and teacher recommendation*

Through a series of multimedia projects students will come to know the connections between the church and art. We will study the historical periods of byzantine, Romanesque, gothic, and renaissance architecture. As well, the monumental invention of the modern cathedral, which directly fuses theology into the artistic

form of its layout and rose windows. Finally, we will discover the vocation of beauty and unique role of artists in salvation.

#### **FAS08 SCULPTURE:HON**

GRADE 11- 12 elective                      ½ CR SEM  
*PREREQUISITE: Art & Theology:Hon and teacher recommendation*

Working with a variety of materials, traditional and non-traditional, students will create both additive and subtractive sculptures. These projects will challenge students to think about the elements and principles of design in a new way, as opposed to 2D artwork. We will look at both historical and contemporary sculpture artists.

#### **FAS09 PROPOSAL:HON**

GRADE 12 elective                                      ½ CR SEM  
*PREREQUISITE: Sculpture:Hon and teacher recommendation*

The student will be asked to write a proposal for a body of work, containing 3 individual projects. The projects are to be chosen from, but not exclusive to, a culmination of methods and media experienced in the prior 3 years. The proposal includes an introduction of subject matter, task, process, and content/meaning behind the work. The Project must challenge the student's audience to look at life in a new and innovative way. To document students will photograph and upload images of their work to their personal online artist portfolio websites.



### **FAS10 EXHIBITION:HON**

GRADE 12 elective ½ CR SEM  
*PREREQUISITE: Proposal:Hon and teacher recommendation*

This course is a portfolio preparation class for students desiring admission into the art department of a college or university. The student-artists work in a wide range of techniques and mediums, in order to exhibit their talents, abilities and individual styles, and complete the final two works. The resultant up-to-date portfolio will be of a quality that can be presented with confidence. The portfolio usually comprises fifteen to twenty works and is completed by the end of April.

*A juried senior show concludes the visual art experience at St. Pius X High School.*

### **FAS11 CHORUS**

GRADE 9-12 elective 1 CR YR -OR- ½ CR SEM  
*PREREQUISITE: none*

Chorus is a vocal performance class. Music reading and proper singing fundamentals such as tone, intonation, diction, and general sound production are the focuses of this class. The chorus performs standard high school choral literature together in a concert at the end of each semester and one evaluative festival in the spring. Attendance at public performances is required. Prior experience is not required.

### **FAS13 CONCERT CHOIR:HON**

GRADE 9-12 elective 1 CR YR  
*PREREQUISITE: Director Recommendation*  
*\*\*Freshman is non-honors credit.\*\**

Concert Choir is an advanced vocal performance class. The Concert Choir performs advanced high school choral literature and provides music for all Masses and Liturgies at St. Pius X. Music fundamentals that were originally taught in

Chorus will be expanded on in Concert Choir, and advanced concepts like balance, blend, and dynamics will be an added focus. In addition to the previously mentioned Masses, this group will also perform at concert festivals, community events, and concerts every year. Students in this class in their Sophomore year and beyond will earn an honors credit. prior experience/a recommendation from the director is required for this class.

### **FAS14 FUNDAMENTALS OF BAND**

GRADE 9-11 elective 1 CR YR  
*PREREQUISITE: none*

In this class students will learn the fundamentals of instrumental music as it pertains to tone production, note recognition, and rhythm reading. Students will have the option to learn any traditional wind band instrument (flute, clarinet, saxophone, trumpet, trombone, percussion). Students in this class will perform two concerts a year. Purchasing an instrument is not required.

### **FAS15 CONCERT BAND:HON**

GRADE 9-12 elective 1 CR YR  
*PREREQUISITE: Director Recommendation*  
*\*\*Freshman is non-honors credit.\*\**

Concert Band is an advanced instrumental performance class. The Concert Band performs a wide variety of contemporary band literature. Music fundamentals such as tone production, note recognition, rhythm reading, intonation, and dynamics are taught at an advanced level. Students in this class perform at marching competitions, concert festivals, parades and home concerts. Students in this class in their Sophomore year and beyond will earn an honors credit. Prior experience/a recommendation from the director is required for this class.

### **FAS17 JAZZ BAND:HON**

GRADE 10-12 elective 1 CR YR

*PREREQUISITE: Director Recommendation and Participation in Concert Band*

Jazz Band will explore literature from such genres as Swing, Blues, Latin, Rock, New Age and Contemporary. All students will learn basic concepts of improvisation and soloing. Students will perform at multiple festivals and concerts each year.

### **FAS18 MUSIC APPRECIATION**

GRADE 9-10 elective 1 CR YR

*PREREQUISITE: none*

This class is a general Fine Art class. In this class students will study musicals, cover, chart topping hits (and flops), parodies, and several other outlets for musical production. While examining all of these focuses students will be encouraged to always evaluate and expand their own musical philosophy.



## MATHEMATICS DEPARTMENT

The St. Pius X High School Mathematics Department in alignment with the Common Core State Standards in Mathematics would like the St. Pius graduates to “learn an ambitious common foundation of mathematical ideas and applications” for the workplace and/or for the pursuit of further study in mathematics and science.

Math Courses	Course Length	Freshman	Sophomore	Junior	Senior
Algebra I	Year	X			
Algebra I:Hon	Year	X			
Geometry	Year		X		
Geometry:Hon	Year	X	X		
Algebra II	Year		X	X	
Algebra II:Hon	Year		X	X	
Advanced Math/Trig	Year			X	X
Precalculus:Hon/CC	Year			X	X
Calculus:Hon/CC	Year				X
Probability & Statistics	Sem 1				X
Discrete Math	Sem 2				X

### **MTH01 ALGEBRA I**

GRADE 9 required  
*PREREQUISITE: none*

1 CR YR

The goal of this course is to master topics in algebra and to communicate these topics through four representations: graphic, contextual, number, and equation. These topics include properties of real numbers, solving and graphing linear equations and inequalities, writing linear equations, solving systems of linear equations and inequalities, simplifying radicals, properties of exponents, solving quadratics equations, simplifying polynomials, and factoring polynomials. Along with being able to work out problems, student will be assessed with quizzes, tests, homework assignments, reading strategies, and critical thinking problems. It is recommended that students have either a TI83 or TI84 calculator.

### **MTH02 ALGEBRA I:HON**

GRADE 9 required  
*PREREQUISITE: minimum 85<sup>th</sup> percentile on standardized test*

1 CR YR

The goal of this course is to master topics in algebra and to communicate these topics through four representations: graphic, contextual, number, and equation. These topics include properties of real numbers, solving and graphing linear equations and inequalities, writing linear equations, solving systems of linear equations and inequalities, simplifying radicals, properties of exponents, solving quadratics equations, simplifying polynomials, and factoring polynomials. Along with being able to work out problems, student will be assessed with quizzes, tests, homework assignments, reading strategies, and critical thinking problems. Algebra I honors is more writing intensive than Algebra I, and students are given a more rigorous workload

with a faster pace that includes more in-class projects and complex problem-solving tasks. It is recommended that students have either a TI83 or TI84 calculator

### **MTH03 GEOMETRY**

GRADE 10 required 1 CR YR

*PREREQUISITE: Algebra I or equivalent*

This course is designed so that all students can understand geometry. It focuses on key topics that provide a strong foundation in the essentials. Concepts are presented in a straightforward manner, supported by frequent worked-out examples. Questions within the lessons give students a way to check their understanding as they go along. Many opportunities are given to practice and maintain skills, as well as to apply concepts to real-world problems.

### **MTH04 GEOMETRY:HON**

GRADE 9-10 required 1 CR YR

*PREREQUISITE: Algebra I or equivalent and teacher recommendation, (Incoming Freshman: Algebra I grade of A or B and minimum 80<sup>th</sup> percentile or Proficient on a standardized test)*

This course brings geometry to life with many real-life applications such as those applied to sports, engineering, carpentry, etc. It teaches the concepts and methods that students need to know in order to meet high curriculum standards and succeed on high-stakes tests.

### **MTH05 ALGEBRA II**

GRADE 10-11 required 1 CR YR

*PREREQUISITE: Geometry or equivalent*

This course includes solving and graphing linear, quadratic, and polynomial equations. Real life applications are contained in each lesson. Investigations include finding the linear

relationship of the distance a toy car will go when rolled down ramps of varying heights and how the apparent size of an object varies directly with the distance one is away from it. Also studied are functions, systems of equations, radicals and exponents.

A TI 83 or TI 84 graphing calculator is required.

### **MTH06 ALGEBRA II:HON**

GRADE 10-11 required 1 CR YR

*PREREQUISITE: Geometry or equivalent, and teacher recommendation*

Included in this course is solving and graphing linear, quadratic, and polynomial equations. Real life applications are included with each lesson. Investigations include mathematical modeling. Also studied are functions, systems of equations, rational, equations, radicals and exponents. Complex extensions of most topics are included. A TI 83 or TI 84 graphing calculator is required.

### **MTH07 ADV MATH/TRIG**

GRADE 11-12 elective 1 CR YR

*PREREQUISITE: Algebra II:Hon or 80% average in Algebra II*

This course provides a solid foundation for success in college mathematics. It builds on what was learned in Algebra. Students will learn about functions and their graphs as well as exponential and logarithmic functions. The second semester will focus on trigonometry, both circular and triangular. Students will graph trigonometric functions and solve equations and identities. Applications include finding heights of tall objects, distance, bearings and the effect of a force on an object.

### **MTH08 PRECALCULUS:HON/CC**

GRADE 11-12 elective 1 CR YR

*PREREQUISITE: "B" average in Algebra II, and teacher recommendation*

Calculus is easy. The algebra in calculus is what makes it hard! Students are prepared for calculus by reviewing and furthering the concepts they learned in their algebra classes. Included is solving and graphing cubic, quadratic, exponential and logarithmic functions. The second semester focuses on trigonometry, both circular and triangular. Students will graph the six trigonometric functions and solve equations and identities. Applications include finding the height of objects, distance, bearings and the effect of a force on an object. A TI-83 or TI-84 graphing calculator is required.

### **MTH09 CALCULUS:HON/CC**

GRADE 12 elective 1 CR YR

*PREREQUISITE: "B" average in Precalculus:Hon/CC, 3.0 GPA on a 4.0 scale, and teacher recommendation.*

What in the universe changes?

Answer: Everything! Calculus allows us to measure that change in a well-organized, well defined manner called differentiation. The opposite of differentiation is integration which is the second major topic of this course.

Integration has many real-world applications as well, including calculating volume, work, centers of mass, fluid force, etc. Finally, high achieving math students are rewarded for their years of hard work by receiving an answer to that age old question—when am I ever going to use this?

Four college credits are possible during second semester. A TI-83 or TI-84 graphing calculator is required.

### **MTH10 PROBABILITY & STATISTICS**

GRADE 12 elective

½ CR SEM

*PREREQUISITE: Algebra II*

This class takes a basic approach to the study of Statistics and Probability. Students in this class will learn to collect and organize data by hand and with the assistance of technological equipment. They will calculate measures of central tendency and measures of variation. They will explore data analysis. The study of Probability follows where students will learn various counting techniques, how to calculate simple, compound, and binomial probabilities, how to use probability distribution graphs. This class requires the use of a graphing utility along with other forms of technology.

### **MTH11 DISCRETE MATHEMATICS**

GRADE 12 elective

½ CR SEM

*PREREQUISITE: Algebra II*

Discrete mathematics applies math to the real world. In discrete math we create models for things that happen in the world around us, like group decision making. Topics include fairness, matrices, graph theory, recursive modeling, and logic. Discrete mathematics provides excellent models and tools for analyzing real-world phenomena that change abruptly and that lie clearly in one state or another. This is a good course for students who would like to broaden their background in the STEM field before going off to college.

## SCIENCE DEPARTMENT

The St. Pius X High School Science Department in alignment with the National Science Content Standards would like the St. Pius graduates to realize “the important thing in science is not so much to obtain new facts as to discover new ways of thinking about them” (William Lawrence Bragg)

Science Courses	Course Length	Freshman	Sophomore	Junior	Senior
Physical Science	Year	X			
Physical Science:Hon	Year	X			
Biology	Year		X		
Biology:Hon	Year		X		
Chemistry	Year			X	
Chemistry:Hon	Year			X	
Anatomy/Physiology:Hon/CC	Year			X	X
Physics:Hon/CC	Year				X
Engineering and Design	Sem 1		X	X	X
Engineering Technology	Sem 2			X	X
Animal Behavior	Sem 1			X	X
Forensic Science	Sem 2			X	X
Astronomy	Sem 2		X	X	X

### SCI01 PHYSICAL SCIENCE

GRADE 9 required

1 CR YR

*PREREQUISITE: none*

To organize the understanding and investigation of the world, science has been divided into separate fields of study such as Physics, Chemistry, Ecology, and Earth Science. All these fields are related and information from one field often leads to developing new ideas in a different field. This course integrates these fields of science using an investigative approach with real life situations to come to an understanding of the basics of science.

### SCI02 PHYSICAL SCIENCE:HON

GRADE 9 required

1 CR YR

*PREREQUISITE: minimum 85<sup>th</sup> percentile in Science and Reading on standardized test*

To organize the understanding and investigation of the world, science has been divided into separate fields of study such as Physics, Chemistry, Ecology, and Earth Science. All these fields are related and information from one field often leads to developing new ideas in a different field. This course integrates these fields of science using an investigative approach with real life situations to come to an understanding of the basics of science. In depth inquiry will lead to more advanced knowledge of these four topics.

### **SCIO3 BIOLOGY**

GRADE 10 required

1 CR YR

*PREREQUISITE: Physical Science*

Biology students are introduced to the study of living things. It will serve as a foundation for future science study and as a basis for the understanding of biological topics that the student will encounter in his or her everyday life, ranging from genetic advances to personal health. Organisms studied will range from viruses and unicellular bacteria to multicellular animals and humans. Laboratory work will include use of microscopes, model building, dissections and observations of living organisms.

### **SCIO4 BIOLOGY:HON**

GRADE 10 required

1 CR YR

*PREREQUISITE: An "A" in Physical Science, and teacher recommendation*

Biology students are introduced to the study of living things. It will serve as a foundation for future science study and as a basis for the understanding of biological concepts that the student will encounter in his or her everyday life, ranging from genetic advances to personal health. To make sure that the student has a basic knowledge of how the world and its living systems interact, topics will include cells, photosynthesis and respiration, genetics, DNA, evolution, ecology, and a survey of the kingdoms. Special attention will be paid to advanced topics such as biochemistry, human genetics and DNA technology. Laboratory work will include use of microscopes, model building, advanced dissections and observations of living things. Problem solving and critical thinking in the scientific setting will be stressed.

### **SCIO5 CHEMISTRY**

GRADE 11 required

1 CR YR

*PREREQUISITE: Algebra I & Biology*

This course is an exploration into the study of matter and many of its components. Lab work is emphasized in this course while being supplemented by a number of discussions surrounding the coursework. This course is for a typical student; concepts are presented in an understandable yet challenging manner while still preparing students for a future chemistry course at the college level. Topics will be solidified by frequent demonstrations, while students challenge themselves through numerous hands-on laboratory exercises.

### **SCIO6 CHEMISTRY:HON**

GRADE 11

1 CR YR

*PREREQUISITE: Algebra I, "B" in Biology, and teacher recommendation*

This course is an in-depth and intensive investigation into the study of matter and its many components. The Honors students in this course will be challenged by a wide variety of topics throughout the year. This course is ideal for those students wishing to pursue a degree in science or a medical field, and is also ideal for those students wishing to enroll in a physics class in the future. The concepts in this course form a broad base for any future chemistry class, while the lab work prepares the students for a rigorous college level science course.

### **SCIO7 HUMAN ANATOMY/ PHYSIOLOGY:HON/CC**

GRADE 11-12

1 CR YR

*PREREQUISITE: "B" in Biology:Hon & Chemistry:Hon, and teacher recommendation*

This course examines the structure and function of the human body. It will serve as an introduction to advanced biological topics and prepare any student for college study of biology

or health and medicine. It is a fast-paced course that requires memorization of many anatomical and medical terms as well as a deep understanding of the concepts related to normal and pathological functioning of the body. Students will learn anatomy by examining and dissecting animal organs such as the brain, kidney, and heart. A full dissection of a cat that will include all body systems and organs will be required. Students will further their knowledge with laboratory work that will focus on the physiology or functions of the various body systems, including muscular function, reflexes, sense perception, circulatory fitness, and urine filtration.

### **SCI08 PHYSICS:HON/CC**

GRADE 12

1 CR YR

*PREREQUISITE: "B" in Biology:Hon & Chemistry:Hon, "B" in Algebra II, and teacher recommendation*

Students taking Physics will enter the fascinating world of the mathematical laws that govern the universe. The laws will be applied to solving problems involving motion, shooting projectiles, amusement park rides, collisions, sound, optics, light and electrical circuits. Students will perform experiments on each topic, collecting and organizing data in order to analyze information. This course is not an AP course. However, students will be able to take the AP exam at the end of the course. A score of 3, 4, or 5 on the exam will provide the student with possible college credits for this class.

### **SCI09 ENGINEERING AND DESIGN**

GRADE 10-12

½ CR SEM

*PREREQUISITE: Geometry*

This Engineering and Design course serves to introduce students to the fields of mechanical, electrical, and computer engineering as well as the design process and professional

communication and collaboration methods. Students will develop skills in research and analysis, teamwork, engineering graphics and problem solving through activity, project and problem-based learning. Topics to be explored throughout the course include: design process, sketching, construction, modeling, reverse engineering, and engineering ethics.

### **SCI10 ANIMAL BEHAVIOR**

GRADE 11-12

½ CR SEM

*PREREQUISITE: Chemistry or equivalent*

This course relates evolution to the adaptation of animals to the environment. It shows how the characteristics of organisms and environmental factors influence animal behaviors such as sexual selection, bird migration, honeybee dancing, dolphin communication sounds, bat echolocation, and predator/prey relationships. Lab work includes field observational projects about chosen topics in animal behavior along with training of rats using operant conditioning through the use of positive reinforcement. Students will be required to train with the rats on a day to day basis, this means that students will need to come in during lunch to train on the day the class does not meet.

### **SCI11 FORENSIC SCIENCE**

GRADE 11-12 ½ CR SEM

*PREREQUISITE: Chemistry or equivalent*

This half-year elective course provides an introduction to the topics of criminology within the field of forensic science. Study includes the applications of concepts from the areas of biology, chemistry, physics and geology to analyze and investigate evidence that may be discovered in a criminal investigation. Classroom activities include experiments, blood spatter analysis, case studies and the incorporation of technology.

### **SCI12 ASTRONOMY**

GRADE 10-12 ½ CR SEM

*PREREQUISITE: Chemistry or equivalent*

This course will provide the student with an introduction to the concepts of modern astronomy and a fundamental study of the universe. The course will focus on the three main fields of stellar, planetary, and interstellar astronomy. Topics to be studied within these fields include the Earth, Moon and Sun system, stars, planets, moons, the Milky Way and other galaxies, and deep space phenomena such as black holes, quasars, and supernovae. Although largely descriptive, the course will occasionally require the use of sophomore level mathematics

### **SCI13 ENGINEERING TECHNOLOGY**

GRADE 11-12 Elective ½ CR SEM

*PREREQUISITE: Engineering and Design*

Engineering Technology is an activity-based course providing orientation and exposure to the practical application of science skills in the engineering field. Students will be actively involved with processes of various engineering fields, devices, and materials (use of drones, 3-D printing), engineering graphics, science principles, and safety. The course includes classroom instruction, lab activities, guest speakers, and field trips.



## SOCIAL STUDIES DEPARTMENT

The St. Pius X High School Social Sciences Department in alignment with the National Council of Social Studies Content Standards would expect students to "help young people make informed and reasoned decisions for the public good as citizens of a culturally diverse, democratic society in an interdependent world."

Social Studies Courses	Course Length	Freshman	Sophomore	Junior	Senior
Research Methods	Sem 1	X			
Research Methods:Hon	Sem 1	X			
World History 450-1500	Sem 2	X			
World History 450-1500:Hon	Sem 2	X			
World History 1500-1914	Sem 1		X		
World History 1914-Present	Sem 2		X		
World History 1500-1914:Hon	Sem 1		X		
World History 1914-Present:Hon	Sem 2		X		
US History I	Sem 1			X	
US History II	Sem 2			X	
US History to 1865:Hon/CC	Sem 1			X	
US History 1865-Present:Hon/CC	Sem 2			X	
American Politics:Hon/CC	Sem 1				X
American Foreign Policy:Hon/CC	Sem 2				X
Current Issues	Either Sem		X	X	X
Psychology	Either Sem		X	X	X
Civics	Either Sem				X
Law & The Legal System	Either Sem		X	X	X

### **SST01 RESEARCH METHODS**

GRADE 09 required  $\frac{1}{2}$  CR SEM

*PREREQUISITE: none*

This course provides an introduction for first semester freshmen to the skills necessary for success in the humanities throughout high school and beyond. Students will learn the basics of information synthesis, differentiating between reliable and questionable sources, and the MLA style of information citation. In addition, students will become skilled in gathering information from primary and secondary sources, reading those sources for content and

vocabulary, and integrating those sources into the research process. These lessons will culminate in a final research project, utilizing Google Docs and Google Slides to write a 2-3 page research paper in proper MLA format.

### **SST02 RESEARCH METHODS:HON**

GRADE 09 required  $\frac{1}{2}$  CR SEM

*PREREQUISITE: minimum 85<sup>th</sup> percentile in Reading on standardized tests*

This course provides an introduction for first semester freshmen to the skills necessary for success in the humanities throughout high school and beyond. Students will learn the basics of information synthesis, differentiating between reliable and questionable sources, and the MLA style of information citation. In addition, students will become skilled in gathering information from primary and secondary sources, reading those sources for content and vocabulary, and integrating those sources into the research process. These lessons will culminate in a final research project, utilizing Google Docs and Google Keep to write a research paper in proper MLA format. Honors students will also interpret primary sources for intent of the author, submit writing samples often, and analyze primary sources for context and audience. Honors students will complete a longer (3-4 page) research project at the end of the semester.

### **SST03 WORLD HISTORY 450-1500**

GRADE 09 required  $\frac{1}{2}$  CR SEM

*PREREQUISITE: none*

This course is the chronological first of three World History courses and begins with the fall of the Roman Empire and culminates with the age of Columbus, when, for the first time, people in the Western and Eastern Hemispheres came into contact with one another in a pronounced and continuous manner. Students will discover special people, events and inventions that have helped to shape and change their world. Students will be able to participate in role-playing activities throughout the semester to bring history to life and make it more relevant to our lives.

### **SST04 WORLD HISTORY 450-1500:HON**

GRADE 09 required  $\frac{1}{2}$  CR SEM

*PREREQUISITE: minimum 85<sup>th</sup> percentile in Reading on standardized tests*

This course is the chronological first of three World History courses and begins with the fall of the Roman Empire and culminates with the age of Columbus, when, for the first time, people in the Western and Eastern Hemispheres came into contact with one another in a pronounced and continuous manner. Students will discover special people, events and inventions that have helped to shape and change their world. Students will be able to participate in role-playing activities throughout the semester to bring history to life and make it more relevant to their lives. Honors students will take a more in-depth approach to the topics covered with Socratic seminars and additional papers and projects required. In addition, students will engage in historical source readings, analysis and discussion.

### **SST05 WORLD HISTORY 1500-1914**

GRADE 10 required  $\frac{1}{2}$  CR SEM

*PREREQUISITE: World History 450-1500 or equivalent*

This course is a continuation of World History starting at 1500 A.D. and progressing to 1914, with special emphasis on the emergence of modern nations, the Enlightenment, Scientific, Commercial, and French Revolutions, the Congress of Vienna, and the Industrial Revolution. Students will also understand the political and social paradigm defined as “modernism” and its contribution to the development of the conditions which led to the First World War.

### **SST06 WORLD HISTORY 1914-PRESENT**

GRADE 10 required  $\frac{1}{2}$  CR SEM

*PREREQUISITE: World History 1500-1914 or equivalent*

This course is a continuation of World History starting at 1914 and progressing to the end of the Cold War with special emphasis on World War I, the Interwar Years, World War II, and the Cold War. Students will analyze the causes and effects and evaluate the role major players had in these global events. Students will be able to participate in role-playing activities throughout the semester to bring history to life and make it more relevant to our lives.

### **SST07 WORLD HISTORY 1500-1914:HON**

GRADE 10 required  $\frac{1}{2}$  CR SEM

*PREREQUISITE: World History 450-1500 or equivalent and teacher recommendation*

This course is a continuation of World History starting at 1500 A.D. and progressing to the 1800s with special emphasis on the emergence of modern nations, the Enlightenment, Scientific, Commercial, and French Revolutions., the Congress of Vienna, and the Industrial Revolution. Students will also understand the political and social paradigm defined as “modernism” and its contribution to the development of the conditions which led to the First World War. Honors students will take a more in-depth approach to the topics covered with Socratic seminars and additional papers and projects required. In addition, students will engage in historical source readings, analysis and discussion.

### **SST08 WORLD HISTORY 1914-PRESENT:HON**

GRADE 10 required  $\frac{1}{2}$  CR SEM

*PREREQUISITE: World History 1914-Present and teacher recommendation*

This course is a continuation of World History starting at 1914 and progressing to the end of the Cold War with special emphasis on World War I, the Interwar Years, World War II, and the Cold War. Students will analyze the causes and effects and evaluate the role major players had in these global events. Students will be able to participate in role-playing activities throughout the semester to bring history to life and make it more relevant to our lives. Honors students will take a more in-depth approach to the topics covered with Socratic seminars and additional papers and projects required. In addition, students will engage in historical source readings, analysis and discussion.

### **SST09 US HISTORY I**

GRADE 11 required  $\frac{1}{2}$  CR SEM

*PREREQUISITE: World History 1500-1914 or equivalent*

This course will survey American History from the Colonial Period to the Civil War. The emphasis will be on studying basic topics in American History such as the Colonial Era, the War for Independence, launching a New Nation through an Era of Growth and Disunion leading to the Civil War. Special emphasis will be to learn about history by thinking like an historian.

### **SST10 US HISTORY II**

GRADE 11 required  $\frac{1}{2}$  CR SEM

*PREREQUISITE: US History I or equivalent*

This course will survey American History from Reconstruction to the emergence of Modern America. The emphasis will be on studying basic topics in American History such as Reconstruction, World War I, the 1920s, the Great Depression, World War II and its aftermath and the Cold War. Special emphasis will be to learn about history by thinking like an historian.

**SST11 UNITED STATES HISTORY TO 1865:  
HON/CC**

GRADE 11 required  $\frac{1}{2}$  CR SEM  
*PREREQUISITE: World History 1914-Present or equivalent, teacher recommendation, and a minimum GPA of 3.0 on a 4.0 scale, and minimum Lexile (SRI score) of 1200*

This course will cover major topics in United States history from the Colonial Period through the Civil War. Topics include the growth of the American colonies, the American Revolution, the development of Nationalism and Sectionalism, and how these contributed to the Civil War. Three college credit hours per semester are available through St. Louis University.

**SST12 UNITED STATES HISTORY SINCE 1865:  
HON/CC**

GRADE 11 required  $\frac{1}{2}$  CR SEM  
*PREREQUISITE: US History II or equivalent, teacher recommendation, and minimum GPA of 3.0 on a 4.0 scale*

This course will cover major topics in United States history from the post Civil War era to the present. Topics include Reconstruction, the two World Wars, and Modern America from 1945-Present. Three college credit hours per semester are available through St. Louis University.

**SST13 AMERICAN POLITICS:HON/CC**

GRADE 12 Elective  $\frac{1}{2}$  CR SEM  
*PREREQUISITE: US History or equivalent, teacher recommendation, and a minimum GPA of 3.0 on a 4.0 scale*

This course provides an introduction to United States politics. Topics include an introduction to America's constitutional foundations, elements of mass public politics (public opinion and participation), the role of organizations (interest groups, media, parties), and the function of

institutions (Congress, Presidency, Courts), as well as Civil Rights and Liberties.. We will address "big questions" in American politics and discuss different arguments based on the evidence brought to bear on these questions. Three college credit hours are available for this course through UMSL. This course includes the concepts taught in Civics.

**SST14 AMERICAN FOREIGN POLICY 1945 -  
PRESENT:HON/CC**

GRADE 12  $\frac{1}{2}$  CR SEM  
*PREREQUISITE: American Politics:HON/CC, teacher recommendation, and a minimum GPA of 3.0 on a 4.0 scale*

This course will study the role of the United States as a major world power, factors that influence the formation and the execution of United States foreign policy, and its relations with foreign countries after WWII. Students will analyze a range of primary and secondary sources and engage in thoughtful discussions and deliberations about history and decision making on contested foreign policy issues. Three college credit hours are available for this course through UMSL.

**SST15 CURRENT ISSUES**

GRADE 10-12  $\frac{1}{2}$  CR SEM  
*PREREQUISITE: none*

This class is designed to provide students with the opportunity to discuss, understand, and explore local, national, international, political, economic and social issues in a respectful, meaningful, and active way. Throughout the semester, students will stay up-to-date on current issues and trends. Because the subject of the course is contemporary, topics will vary considerably depending on the events. Students will be challenged to defend opinions on many different issues.

### **SST16 PSYCHOLOGY**

GRADE 10-12

½ CR SEM

*PREREQUISITE: none*

This course provides an introduction to key basic concepts in the field of psychology. Topics include the founders of psychology, comparing different approaches to understanding human behavior, conducting and analyzing psychological research, research ethics, developmental psychology, consciousness, and psychological disorders. Students supplement these topics with research presentations chosen by the student and instructor, which explore topics such as personality, motivation, emotion, group interaction, and memory. This course aims to help students understand human behavior and introduce concepts which students will encounter in introductory psychology courses at the undergraduate level.

### **SST17 CIVICS**

GRADE 12 required

½ CR SEM

*PREREQUISITE: US History or equivalent*

This course is required for any student not enrolled American Politics:CC. This course

provides an in-depth study of our government and democracy in action with an emphasis on how the actions of the federal, state, and local government as well as actions by citizens affect our daily lives. In order to examine the role of government in our lives, we will study the U.S. Constitution, Bill of Rights, and Missouri Constitution and integrate current events and issues as they relate to our government and democracy in action. At the end of this semester, students will be informed on how our government works and be empowered to be a part of our democracy.

### **SST17 LAW AND THE LEGAL SYSTEM**

GRADE 10-12

½ CR SEM

*PREREQUISITE: none*

A reading and writing-intensive course, analyzes U.S. government and history through the lens of law: the Constitution, landmark cases, and legal concepts from the criminal and civil realm. Students will learn how to write a legal brief breaking down a complicated case into the legal question to be answered by the courts.

## THEOLOGY DEPARTMENT

Intellectual formation and the use of human reason is an indispensable part of student faith formation. Through a properly formed intellect, students are able to apply knowledge of faith and morals to real-world situations. Theology courses taught in Catholic high schools operate within the framework of the curriculum outlined by the United States Conference of Catholic Bishops. No longer can the Church presuppose each student has a personal relationship with Christ. To that end, this curriculum's focus is to make theological thought at the high school level more Christo-centric, with emphasis on the relation between the Paschal Mystery and everyday life.

Theology Courses	Course Length	Freshman	Sophomore	Junior	Senior
Revelation	Sem 1	X			
Jesus Christ	Sem 2	X			
Paschal Mystery	Sem 1		X		
Church	Sem 2		X		
Sacraments	Sem 1			X	
Morality	Sem 2			X	
Vocations	Sem 1				X
Catholic Social Teaching	Sem 2				X

**COMMUNITY SERVICE:** *All students will be required to do 100 hours of mandatory, unpaid community service while a student at St. Pius X. Service may be done during the summer or during the school year. Service plans must be approved by the service moderator and service completed must meet the program standards. Graduation is dependent on this service.*

Each year the student will be required to finish a set number of hours that fall under the following categories:

- St. Pius X and/or your parish/church
- Family and friends
- Works of Mercy (helping the poor, hungry, homeless, sick, injured, physically challenged, elderly, academically challenged).

### **THE01 REVELATION**

GRADE 9 required

½ CR SEM

PREREQUISITE: none

by God and its value throughout the world. Students will learn how to read the Bible as well as become familiar with its format.

This course will give students a knowledge and appreciation of God and Sacred Scripture. Through the introduction to God and His Word, the Bible. In the course students will learn about God, who He is and why the Bible is essential to Christian life. The Bible is inspired



## **THE02 JESUS CHRIST**

GRADE 9 required

½ CR SEM

*PREREQUISITE: none*

The students will continue their study using the Bible on the mystery of Jesus Christ, the Living Word of God, Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation through the New Testament as well as Church Documents. In learning about who He is, the students will also learn who He calls them to be.

Throughout the semester we will begin an introduction to the Theology of the Body which focuses on the dignity of the human person and human sexuality. This will be reinforced in all future courses.

## **THE03 PASCHAL MYSTERY**

GRADE 10 required

½ CR SEM

*PREREQUISITE: none*

This course will help students understand all that God has done for us through His Son, Jesus Christ. Students will learn that for all eternity, God has planned for us to share eternal happiness with Him, which is accomplished through the redemption Christ won for us in the events of the Passion, Crucifixion, Resurrection and Ascension. Students will continue to develop their role as a disciple of Christ through prayer and the Paschal Mystery in the life of the Church.

## **THE04 CHURCH**

GRADE 10 required

½ CR SEM

*PREREQUISITE: none*

This course will help the students understand ecclesiology: learning an understanding of the role of the Church in our lives as well as the nature and structure of the Church, including the

divine and human elements therein. Founding the Church, passing it down through the Apostles and sustaining His living Body through the Holy Spirit until today, we encounter the living Jesus Christ now and forever.

## **THE05 SACRAMENTS**

GRADE 11 required

½ CR SEM

*PREREQUISITE: none*

“The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life” (USCCB).

## **THE06 MORALITY**

GRADE 11 required

½ CR SEM

*PREREQUISITE: none*

“The purpose of this course is to help students understand that it is only through Christ that they can fully live out God’s plan for their lives” (USCCB). This course leads the students toward a deeper understanding of God’s Law revealed to us through reason and Revelation. “Students are to learn the moral concepts and precepts that govern the lives of Christ’s disciples” (USCCB). Christian morality is about response to God’s love by living in full communion with God and others. Theology of the Body is also taught in light of the sixth and ninth Commandments.

## **THE07 CATHOLIC SOCIAL TEACHING**

GRADE 12 required

½ CR SEM



*PREREQUISITE: none*

This course is an overview of Catholic Social Teaching. This includes an explanation of the Church's Social teachings and how we, as Catholics, respond to the different moral challenges in our society. The Catechism of the Catholic Church, the Compendium of Social Doctrine, Papal Encyclicals, documents from the USCCB, and Sacred Scripture will be the basis of study for these topics. The Themes of Social Justice: The Dignity of the Human Person, The Call to Family, Community and Participation, Rights & Responsibilities, Preferential Option for the Poor and Vulnerable, The Dignity of Work and Workers, Solidarity and Care for the Earth will be studied.

### **THE08 VOCATIONS**

GRADE 12 required

½ CR SEM

*PREREQUISITE: none*

The course is centered on important questions and concepts about the meaning of vocation and spiritual discernment. The course explores foundational concepts integral to an understanding of vocation as God's call and our response within Holy Orders, the lay life, married life as well as a consecrated life.

## WELLNESS DEPARTMENT

The Wellness Department at St. Pius X High School provides a safe, disciplined, and encouraging environment for students to improve fitness level and self-esteem, develop the mind, body, and spirit, learn strategies for a healthy life, and practice self-discipline, cooperation, teamwork and leadership.

Wellness Courses	Course Length	Freshman	Sophomore	Junior	Senior
Wellness	Year	X			
Fitness	Year		X		
Cross Training	Year			X	
Lifetime Fitness:Hon	Either Sem				X
Strength and Conditioning	Year		X	X	X

### **PED01 WELLNESS**

GRADE 9 required  
PREREQUISITE: none

1 CR YR

What is healthy? Are you healthy? These questions will be answered in ways you never thought possible during this course. This course is focused on both physical and emotional wellness. Wellness is designed to build a foundation of proper exercise, nutrition and character. Students will engage in supervised strength training, plyometric training, speed training and agility training, in order to achieve better fitness.

### **PED02 FITNESS**

GRADE 10 required  
PREREQUISITE: Wellness

½ CR SEM

What is your fitness level? Do you need help with achieving your fitness goals? Do you want to get faster, stronger, more explosive? You have come to the right place (St. Pius Gym and Weight Room). We are here to push you to your best. Sign up and buckle up for the ride of your life. Race you to the finish line!

### **PED 03 CROSS TRAINING**

GRADE 11 required  
PREREQUISITE: Fitness

1 CR YR

Cross Training is a strength and conditioning program that is designed to develop a lifelong love of fitness. In a group setting, students will participate in fun and engaging workouts that deliver measurable results. The workouts consist of constantly varied, functional movements that deliver a fitness that is broad, inclusive and general that can be adjusted for any level.

### **PED04 LIFETIME FITNESS:HON**

GRADE 12 elective  
PREREQUISITE: A in Cross Training, 85 percent or higher on all fitness tests

½ CR SEM

Congratulations! You are among the fittest students in the school. It is time to explore ways to remain fit for a lifetime. This course can be taken only one time either first or second semester, not both.

**PED05 STRENGTH AND CONDITIONING**

GRADE 10-12 elective 1 CR YR

*PREREQUISITE: B in Wellness , 85 percent or higher average on all fitness tests, tardy no more than 5 days per semester, absent no more than 5 days per semester.*

This course is by application and approval only and offered as a zero-hour option (before school). The course will consist of advanced strength and conditioning workouts and will meet every other day from 6:30 AM to 7:45 AM.

## WORLD LANGUAGES DEPARTMENT

The St. Pius X High World Languages Department in alignment with the American Council on the Teaching of Foreign Languages would like the St. Pius graduates to have the opportunities and resources to become “linguistically and culturally equipped to communicate successfully in a pluralistic American society and abroad.”

Wellness Courses	Course Length	Freshman	Sophomore	Junior	Senior
Spanish I	Year	X	X	X	
Spanish I:H	Year	X			
Spanish II	Year		X	X	X
Spanish II:H	Year		X		
Spanish III:H/CC	Year			X	
Spanish IV:H/CC	Year				X

### FLN01 SPANISH I

GRADE 9-11 required 1 CR YR

*PREREQUISITE: scores on standardized tests in reading and English*

Spanish I is an introduction to the Spanish language and Hispanic cultures. Targeted skills include listening comprehension, reading comprehension, writing, speaking, pronunciation, grammar knowledge and use, vocabulary knowledge and use, geography of the Spanish-speaking world, and cultural awareness. A basic working knowledge of the Spanish language should be achieved by the end of this course.

### FLN02 SPANISH I:HON

GRADE 9 required 1 CR YR

*PREREQUISITE: minimum 85<sup>th</sup> percentile on standardized test in reading and English*

Spanish I is an introduction to the Spanish language and Hispanic cultures. Targeted skills include listening comprehension, reading comprehension, writing, speaking, pronunciation, grammar knowledge and use,

vocabulary knowledge and use, geography of the Spanish-speaking world, and cultural awareness. By the end of this course, students should achieve a beginner’s knowledge of the Spanish language. The content and assessments of this course are more rigorous.

### FLN03 SPANISH II

GRADE 10-12 required 1 CR YR

*PREREQUISITE: Spanish I or equivalent*

Spanish II is a continuation of Spanish I. Targeted skills include listening comprehension, reading comprehension, writing, speaking, pronunciation, grammar knowledge and use, vocabulary knowledge and use, geography of the Spanish-speaking world, and cultural awareness. By the end of this course, students should achieve a beginner’s intermediate knowledge of the Spanish language.

#### **FLN04 SPANISH II:HON**

GRADE 10 required

1 CR YR

*PREREQUISITE: FLN02 with at least a grade of "B" or FLN01 with a grade of "A" and teacher recommendation.*

Spanish II is a continuation of Spanish I. Targeted skills include listening comprehension, reading comprehension, writing, speaking, pronunciation, grammar knowledge and use, vocabulary knowledge and use, geography of the Spanish-speaking world, and cultural awareness. By the end of this course, students should achieve a beginner's / intermediate knowledge of the Spanish language. The content and assessments of this course are more rigorous.

#### **FLN05 SPANISH III:HON/CC**

GRADE 11 elective

1 CR YR

*PREREQUISITE: FLN04 with a grade of "A" or "B" and teacher recommendation or FLN03 with a grade of "A" and teacher recommendation. 5 hours of college credit available requires minimum GPA of 2.5 on a 4.0 scale*

Spanish III is a continuation of Spanish II. Targeted skills include listening comprehension, reading comprehension, writing, speaking, pronunciation, grammar knowledge and use, and vocabulary knowledge and use. By the end of this course, students should achieve an intermediate/advanced knowledge of the Spanish language. More emphasis will be given to Spanish culture and increasing proficiency in the language. Independent study and reading will be required. Course requires intensive memorization and application of language skills. Available for college credit.

#### **FLN06 SPANISH IV:HON/CC**

GRADE 12 elective

1 CR YR

*PREREQUISITE: FLN05 with a grade of "A" or "B" and teacher recommendation. 5 hours of college credit available requires minimum GPA of 3.0 on a 4.0 scale*

Spanish IV is a continuation of Spanish III. Targeted skills include listening comprehension, reading comprehension, writing, speaking, pronunciation, grammar knowledge and use, and vocabulary knowledge and use. By the end of this course, students should achieve an advanced knowledge of the Spanish language. This course will refine and complete the study of Spanish grammar and continue working on fluency, proficiency and accuracy. Spanish literature will include literary short stories and poetry, and the arts will be examined along with other cultural studies. A practice college placement test will be offered. Course requires intensive memorization and application of language skills. Available for college credit.