

# PIUS XI CATHOLIC HIGH SCHOOL CURRICULUM GUIDE FOR 2018-19 SCHOOL YEAR

## PIUS XI CATHOLIC HIGH SCHOOL MISSION

Pius XI Catholic High School  
welcomes a diverse  
community of students into  
our care. Inspired by our  
Catholic values, we prepare  
our students for higher  
education and lead them  
toward lives  
Guided by Faith,  
Driven by Compassion,  
Formed by Scholarship and  
Prepared to Engage the  
World.

## ARTS and DESIGN

The nationally recognized Pius XI Art Program is designed to be taken all four years. The scope and sequence of our curriculum develops strong technical and conceptual thinking skills and focuses on personal voice. Our students are prepared for college admission and scholarship if they choose to pursue it. Pius XI has a one year fine arts requirement as do most colleges and universities, however, most Art colleges and Universities with strong art programs require an Art Portfolio for college admission and scholarship. The visual arts include, but are not limited to, architecture, animation, computer imaging, communication design, game design, web design, fashion design, industrial design, transportation design, product design, interior design, package design, toy design, fibers, textile design, photography, film, video, costume design, set design and more. One credit in either Visual Arts, Performing Arts or a combination is required for graduation.

Credits	Courses	Year	Comments	Page
1.0	Art Fundamentals	1-2-3-4	Pathway to AP	10
0.5	Ceramics	2-3-4		10
0.5	Design: Introduction to Photoshop and Adobe Illustrator	2-3-4	Pathway to AP	10
0.5	Figure Drawing	2-3-4	Pathway to AP	10
0.5	Experimental Drawing	3-4	Pathway to AP	10
0.5	Fibers, Fashion Construction & Design	3-4	Pathway to AP	10
0.5	Painting I	3-4		10
0.5	Photography I	3-4		10
0.5	Photography 2: New Genres	3-4		11
0.5	Sculpture	3-4	Pathway to AP; rotates with 3-D 2019-2020	11
0.5	3-D Architectural Modeling and Set Design	3-4	Pathway to AP; rotates with Sculpture 2018-19	11
0.5	The Context of Western Culture 1700 to Present	3-4		11
	AP Summer Portfolio	3-4	Pathway to AP	41
1.0	AP Art Portfolio Preparation	4		11
1.0	AP Studio Art-I I	3		12
1.0	AP Studio Art-I2	4		12

## ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID)

AVID (Advancement Via Individual Determination) is a college preparatory program offered in all grades that focuses on students who are academically proficient yet need support in reaching and succeeding in advanced academic courses. The AVID curriculum involves an intensive preparation for higher education by providing students with the reading, writing, inquiry and collaboration skills necessary to succeed after high school. As a result of participating in this course, students will be able to build critical thinking and literacy skills as well as strategic reading and writing skills necessary for success in the classroom, standardized assessments and college.

Credits	Courses	Year	Comments	Page
0.5	AVID 9	1	Starts Semester 2; application/ interview required	13
1.0	AVID 10	2		13
1.0	AVID 11	3		13
1.0	AVID 12	4		13

## ENGINEERING/ PROJECT LEAD THE WAY (PLTW)

The Engineering (Project Lead the Way) Program is designed to be taken all four years. It allows students to earn college credit for each of the courses and introduces students to the scope, rigor and discipline of engineering prior to entering college. However, even if a student is not planning to pursue a four-year college degree, they will benefit greatly from the knowledge and thought processes that result from taking some or all of the courses provided in this program.

**Please note: Project Lead the Way students must have access to a computer with internet access and Microsoft Office.**

Credits	Courses	Year	Comments	Page
1.0	PLTW: Introduction to Engineering and Design (IED)	1-2-3-4	College credit available	14
1.0	PLTW: Principles of Engineering (POE)	2-3-4	College credit available	14
1.0	PLTW: Digital Electronics (DE)	3-4	College credit available offered 2018-19	14
1.0	PLTW: Civil Engineering and Architecture (CEA)	3-4	College credit available offered 2019-20	14
0.5	PLTW: Introduction to Computer Science		Summer Only	42
0.5	Rube Goldberg Machine Design	2-3-4		14

## ENGLISH

The English Program is required all four years. Accelerated students are encouraged to take more than the four credits of English required to graduate. You may take Advanced Placement English for college credit in your senior year. Four credits of English are required for graduation.

Credits	Courses	Year	Comments	Page
1.0	Foundations in Composition and Literature	1		15
1.0	Accelerated Foundations in Composition and Literature	1	Offered to freshmen in 90 <sup>th</sup> percentile on English Entrance Exam	15
0.5	Themes in World Mythology	2		15
0.5	Genres of Writing	2		15
0.5	Contemporary Literature	3	Pathway to AP	15
0.5	20 <sup>th</sup> Century Literature and Theory	3-4	Pathway to AP	15
0.5	Advanced Writing	3-4	Pathway to AP	15
0.5	Life Themes in Literature	3-4	Pathway to AP	15
0.5	Interpretations of Popular Literature	3-4		16
0.5	World Literature	3-4		16
0.5	Capstone: Cultural Perspectives in Non-fiction	4	Rotates with Women's Voices offered 2019-20	16
0.5	Women's Voices in Literature	4	Pathway to AP Rotates with Capstone 2018-19	16
1.0	AP English Literature and Composition	4		16
0.5	Poetry/ Creative Writing/Topics in Literature	3-4	Summer Only	41-42

\* Denotes Pathway to AP

## FITNESS AND WELLNESS

The Fitness & Wellness Program is designed to be taken for four years, although only 1.5 credits of Physical Education and .5 credits of Health are required by state law. We recommend that students see their coursework not in terms of credit hours, but instead as something they can pursue seven days a week, developing the skills, creating the routine and acquiring the discipline for a healthy lifestyle. All online courses for Fitness and Wellness need to be approved through the department chair prior to taking the course.

Credits	Courses	Year	Comments	Page
0.5	Freshman Co-ed Physical Education	1	Grad requirement	17
0.5	Contemporary Health Topics	1-2-3	Grad requirement; see description for requirements for Juniors to take class	17
0.5	Sophomore Co-ed Physical Education	2	Grad requirement	17
0.5	Racket Up and Stick To It	2-3-4		17
0.5	Competitive Team Activities	2-3-4		17
0.5	Bodies in Motion	2-3-4		17
0.5 or 1.0	Female Body Sculpting	2-3-4	Offered for a semester or year	17
0.5 or 1.0	Body Development	2-3-4	Offered for a semester or year	17
0.5 or 1.0	Lifetime Sports Activities	3-4	Offered for a semester or year long	18

## MATHEMATICS

The Mathematics program is designed to be taken for four years. Students must complete a full year of Algebra, a full year of Geometry and one additional credit of advanced mathematics for graduation. **Most colleges and universities require three or four years of college preparatory mathematics, therefore students are strongly encouraged to go beyond the minimum graduation requirement.** Placement in all courses is determined by the student's ability and interest, as well as by consulting with the student's Mathematics teacher. ACT preparation is emphasized throughout the math curriculum.

Credits	Courses	Year	Comments	Page
1.0	Pre-Algebra	1	Not a Math credit; see supplementary offerings	35
1.0	Algebra I	1-2	Grad Requirement	19
1.0	Accelerated Algebra I	1	Pathway to AP	19
1.0	Geometry	2-3-4	Grad Requirement	19
1.0	Accelerated Geometry	1-2-3	Pathway to AP	19
1.0	Honors Math 3	2-3-4	Pathway to AP	19
1.0	Algebra and Trigonometry	2-3-4		19
1.0	Algebra 2	3-4		19
1.0	Pre-Calculus	3-4		19
0.5	Trigonometry	3-4		20

<b>MATHEMATICS (CONT.)</b>				
Credits	Courses	Year	Comments	Page
.5	Statistics	3-4		20
1.0	AP Calculus AB	3-4		20
1.0	AP Statistics	3-4	Not a Math credit; see supplementary offerings	35
<b>PERFORMING ARTS</b>				
<p>The Performing Arts Program is a K-16 model, offering outreach programs to area grade schools through the Pius XI Performing Arts Academy and preparing passionate, dedicated high school performers for college entrance and careers in the performing arts. This program offers a four-year scoped and sequenced curricular program that empowers students with the technical and interpretive tools to communicate effectively through their medium of performance. Pius XI has a one-year fine arts requirement, as do many colleges and universities. One credit in either Visual Arts, Performing Arts or a combination is required for graduation.</p>				
Credits	Courses	Year	Comments	Page
<b>CHORAL MUSIC</b>				
1.0	Mixed Choir	1-2-3-4		21
1.0	Advanced Choir	2-3-4		21
1.0	Concert Choir	2-3-4		21
0.5	Vocal Jazz Ensemble	3-4		21
0.5	Madrigal Ensemble/ Ladies in Waiting	3-4		21
<b>INSTRUMENTAL MUSIC</b>				
1.0	Beginning Band	1-2-3-4		21
1.0	Percussion Ensemble	1-2-3-4		21
1.0	Symphonic Band	1-2-3-4		21
1.0	Beginning Strings	1-2-3-4		22
1.0	Intermediate Strings /String Orchestra	1-2-3-4		22
1.0	AP Music Theory	3-4		22

PERFORMING ARTS (CONT)				
Credits	Courses	Year	Comments	Page
<b>DANCE</b>				
0.5	Beginning Dance	1-2-3-4		22
1.0	Dance 1	1-2-3-4		22
1.0	Dance 2	1-2-3-4		22
1.0	Dance 3	1-2-3-4		23
1.0	Dance 4	1-2-3-4		23
1.0	Dance 5	1-2-3-4		23
<b>THEATER</b>				
0.5	Acting 1A	1		23
0.5	Acting 1B	2-3-4		23
0.5	Acting 2	2-3-4		23
0.5	Acting 3	3-4		24
0.5	Acting 4	4		24
0.5	Directing	2-3-4	Rotates with Tech Theater Offered 2019-20	24
0.5	Technical Theater	1-2-3-4	Rotates with Directing Offered 2018-19	24
0.5	Basic Improvisation	1-2-3-4		24
<b>SCIENCE</b>				
<p>The Science Program is designed to be taken for four years. The recommended science curriculum for all students includes the foundation of the “core three” courses: Biology, Chemistry and Physics. Additional electives and Advanced Placement (AP) courses are also encouraged to enrich students’ science backgrounds and prepare them for science beyond high school. Students can earn college credits through our Advanced Placement courses. Successful completion of Biology is a requirement for all students. Each student must obtain 3 credits in science as a graduation requirement.</p>				
Credits	Courses	Year	Comments	Page
1.0	Biology	1-2	Pathway to AP/ Grad Requirement	25
1.0	AP Biology	3-4		25
1.0	Chemistry	2-3-4	Pathway to AP	25
1.0	Physics	2-3-4	Pathway to AP	25
1.0	AP Physics	3-4		25
1.0	Physical Science	1-2-3-4		25
1.0	PLTW: Principles of Biomedical Science	1-2-3-4	College credit available	25
1.0	PLTW: Human Body Systems	2-3-4	College credit available	26

## SCIENCE (CONT)

Credits	Courses	Year	Comments	Page
0.5	Astronomy	2-3-4	Rotates with POPE Offered 2018-19	26
0.5	Processes of Planet Earth (POPE)	2-3-4	Rotates with Env Sci/ Astronomy offered 2018-19	26
0.5	Environmental Science	2-3-4	Pathway to AP Rotates with POPE/ Astronomy Offered 2019-20	26
1.0	AP Environmental Science	3-4		26

## SOCIAL SCIENCE

The Social Sciences Program is designed to be taken, as required by the State, for a total of 3 credits, with students opting to take additional coursework based on individual interest. Students must take the one-semester Foundations of American Government or Honors American Government, the year-long United States History or AP US History and one semester of Economics. The Economics requirement can be fulfilled by taking Economics or AP Economics. Every student should take at least one semester of a course that provides a world focus. All students are encouraged to pursue advanced work in Social Sciences.

Credits	Courses	Year	Comments	Page
1.0	Introduction to Social Science	1		27
1.0	World History	1-2		27
0.5	Diversity and Human Rights	2-3-4		27
0.5	Foundations of American Government	2	Does not meet requirement for AP US History; Grad Requirement	27
0.5	Honors American Government	2	Required for AP US History; Grad Requirement	27
0.5	Economics	2-3-4	Grad Requirement	27
1.0	AP Macro Economics: Principles of Macroeconomics	2-3-4	Concurrent College Credit possible; fulfills Economics Grad Requirement	27
0.5	Psychology	3-4		27
1.0	AP Psychology	3-4	Concurrent College Credit possible	28
1.0	US History: 1800- Present	3-4		28
1.0	AP US History	3-4	Concurrent College Credit possible	28
0.5	Sociology	4		28
1.0	AP European History	3-4	Concurrent College Credit possible	28
0.5	The Context of Western Culture 1700 to present	3-4	Cross curricular class with Visual Art	29

## SPECIAL STUDIES

Credits	Courses	Year	Comments	Page
0	Learning Disabilities Program	1-2-3-4		30
1.0	Reading Strategies	1-2-3-4	Freshmen in this class should wait until Sophomore year to take World Language	30

## THEOLOGY

The Theology Department's four-year curriculum supports students in developing and deepening their relationship with God, and using that relationship to interpret and guide their life in this world. Pius XI has a 4 credit Theology requirement for graduation.

Credits	Courses	Year	Comments	Page
0.5	Foundations of Scripture: Hebrew Scripture	1		31
0.5	Foundations of Scripture: Christian Scripture	1		31
0.5	Foundations of Theology: Catholic Faith	2		31
0.5	Foundations of Theology: Church History	2		31
0.5	Life Themes in Literature	3-4	Cross curricular course with English	31
0.5	Christian Ministries (Big Buddy)	4		31
0.5	Christian Spirituality	3-4	Rotates with Comparative Religions Offered 2019-20	31
0.5	Comparative Religions	3-4	Rotates with Christian Spirituality Offered 2018-19	31
0.5	Honors Theology: Philosophy for Theology	3-4	Concurrent College Credit possible	32
0.5	Justice and Liberation: Catholic Social Teaching	3-4	Concurrent College Credit possible	32
0.5	Morality and Ethics	3-4	Grad Requirement	32

## WORLD LANGUAGES

The World Languages Program is designed to be taken all four years for language proficiency. Many universities require two, or in some cases, three or four years of a single world language for admission. Opportunities for advanced study in language are offered and students may choose to study more than one language. The more levels taken at Pius XI, the more likely it is that a student can place higher into a college's program, where they would earn college credit for some or all of the prerequisite courses. A program is available for heritage Spanish speakers to help strengthen and develop their Spanish language skills. Students must complete two years of the same World Language as a requirement for graduation.



## WORLD LANGUAGE (CONT)

Credits	Courses	Year	Comments	Page
1.0	French I	1-2-3		33
1.0	French II	1-2-3-4		33
1.0	French III	1-2-3-4		33
1.0	French IV	2-3-4		33
1.0	Spanish I	1-2-3		33
1.0	Spanish II	1-2-3-4	Pathway to AP	33
1.0	Spanish III	1-2-3-4	Pathway to AP	33
1.0	Spanish IV	2-3-4	Pathway to AP	33
1.0	Spanish for Heritage Speakers	1-2-3	Pathway to AP	34
1.0	AP Spanish	4		34

## SUPPLEMENTARY OFFERINGS

In addition to the courses that Pius XI offers in its academic departments, the following are a few school-wide elective courses that don't reside in any one specific department.

Credits	Courses	Year	Comments	Page
.25	ACT Prep	2-3	Grad Requirement	35
1.0	AP Statistics	3-4		35
0.5	Applied Business Strategies	3-4		35
0.5	Introduction to Accounting	3-4		35
0.5	Marine Ecology Studies: The Key Largo Experience	1-2-3-4	Application and Extra costs for this experience; only one experience for credit	35
0.25	Scuba Diving	1-2-3-4	Application and Extra costs for this experience	35
0.5-1.0	Special Projects	3-4	Application Required	36
0.25-0.5	Pius XI Newspaper Staff	1-2-3-4		36
0.25-0.5	Pius XI Yearbook Editors	1-2-3-4		36
0.5	Writing Center Tutor Course	3-4	Summer course required and time in Writing Center part of requirements of course	36/41

# ARTS AND DESIGN

## ART FUNDAMENTALS \* 1 credit

Art Fundamentals is a year-long foundation class and prerequisite class to our program. Here students are taught to see, to trust their eyes and to coordinate them with their hand. First semester a variety of exercises build a student's ability, range and confidence with observational drawing. The second semester is devoted to the development of painting skills. Students will create a painted realistic self-portrait or still life by the end of the semester. Students are required to keep a sketchbook and have homework assignments after every class. The homework should take 30 to 45 minutes per assignment.

## CERAMICS 0.5 credit

In this one-semester course, students will learn the basic techniques of working with clay, which include coil and slab construction. Students will be introduced to working on the potter's wheel. Students will begin to study the glaze-making process. By the end of the semester, students will have had a "hands-on" experience and basic understanding of both sculptural and functional aspects of working with clay.

PREREQUISITE: Art Fundamentals or sophomore, junior or senior standing

## DESIGN: INTRODUCTION TO PHOTOSHOP AND ADOBE ILLUSTRATOR\* 0.5 credit

The focus of this one-semester course is to teach students creative problem solving skills through design and illustration. Students will learn to employ the elements and principles of design to develop effective visual communication skills. Through the use of a variety of media and techniques, including Adobe Photoshop and Illustrator along with painting, drawing, and collage, students will develop the ability to create strong effective compositions while illustrating an idea or message.

PREREQUISITE: Art Fundamentals

## FIGURE DRAWING\* 0.5 credit

In this one-semester course students will have an energetic studio experience. Students will learn to draw rapidly, focusing on gesture, structure, and form. Students will become familiar with anatomical structures and their place in a visual vocabulary. Students will use a variety of media, both two- and three-dimensional, working directly from a model. This course is a logical step after Art Fundamentals,

and is a prerequisite for Painting I and Experimental Drawing.

PREREQUISITE: Art Fundamentals

## EXPERIMENTAL DRAWING\* 0.5 credit

In this one-semester course, students will explore a variety of approaches to drawing, both in black and white and in color. Students will learn to question the very nature of drawing itself, and in turn, develop a very personalized repertoire of skills and techniques. Students will be taught creative thinking skills to help them engage in solving open-ended problems. Students will be given many opportunities to choose their own drawing media and surfaces.

PREREQUISITE: Art Fundamentals or Figure Drawing

## FIBERS, FASHION CONSTRUCTION AND DESIGN\* 0.5 credit

In this one-semester course, students will explore the properties of fiber and alternative materials to create clothing forms both as wearable art and as conceptual objects. Students will consider the possibilities for connecting materials together to create new forms. A range of methods for construction includes assemblage, collaging, binding, papermaking and sewing. Creative thinking will be emphasized. Ideas and work specific to costume design will also be introduced.

PREREQUISITE: Art Fundamentals, Ceramics or Design

## PAINTING I\* 0.5 credit

In this one-semester painting course, students will focus on color and surface. Students will learn the basics of acrylic painting and experiment with a variety of mixed media utilizing realism and abstraction. Projects will be open-ended and students will be taught the necessary skills to make their work personal. Experimentation will be encouraged.

PREREQUISITE: Art Fundamentals and Figure Drawing

## PHOTOGRAPHY I 0.5 credit

In this one semester course, students will begin to harmonize the traditional and the digital. Students will be taught how to use both a 35mm camera and their cell phone camera as tools in developing images that transcend the typical snapshot. Students will be pushed to explore and experiment with moving from the traditional, to digital formats, and back again. Students will learn how to develop 35mm film and images in the darkroom. They will also be asked to experiment with digital and paper negatives,

transparencies, and other manipulation techniques. Photoshop will be introduced as a tool for manipulating and printing images. Students need to provide their own SLR 35mm film camera.

PREREQUISITE: Art Fundamentals and junior or senior standing, with an application form and the instructor's consent

**PHOTOGRAPHY 2/NEW GENRES** 0.5 credit  
The emphasis of this one semester class is to create a body of work from interacting with digital and experimental media. Students will learn a range of approaches to photography and fabrication. Students will work with black/white and color photography, digital fabrication and installation based imaging. Mixed media assemblage and three dimensional work will be explored. Juniors and seniors in this class can prepare an AP submission in photography for AP college credit. This class is excellent preparation for students pursuing AP Portfolio in photography, film/video, or sculpture senior year. For this class students will need to purchase their own 10 megapixel or higher digital camera. A DSLR camera is preferred.

PREREQUISITE: Art Fundamentals and Photography I

**SCULPTURE\*** 0.5 credit  
In this one semester course, students will explore the elements and principles of three-dimensional form in a variety of mediums and techniques. All assignments are idea-based and will allow for a wide range of individualized solutions. Insights into the use of space will draw from areas as diverse as graphic design, architecture, product design, industrial design, environmental design and/or fine art sculpture. Methods and materials for construction will vary with each problem and each student's vision for a solution.

PREREQUISITE: Art Fundamentals

**3-D ARCHITECTURAL MODELING AND SET DESIGN \*** 0.5 credit  
This course provides students interested in architecture and set design the skills and methods needed to imagine, design and construct physical interior and exterior models. The course will focus on developing concept, craftsmanship and aesthetic considerations needed to articulate well designed space, given the function of the space and perimeters of each assignment. Concepts covered include defining the needs of a space, light, scale, movement flow and structural integrity. Students will use their drawing skills to develop their ideas. This class would be beneficial to students interested in interior design, set design and architecture. Students are

required to seek additional help and feedback from the instructor outside of class time.

PREREQUISITE: Art Fundamentals. This course is open to sophomore, juniors and seniors

This class complements PLTW Civil engineering and architecture class.

**THE CONTEXT OF WESTERN CULTURE 1700 TO PRESENT** 0.5 credit  
In this one-semester course students will investigate contemporary issues in art as well as the historical and cultural contexts in which art is created. Students will explore the interaction of art and society with emphasis on 19th and 20th century art movements. The course is team taught by both Social Sciences and Art faculty. The Advanced Placement Test is optional. This course is required for AP Portfolio students. A class museum visit to Chicago is required.  
*Required as a part of AP Portfolio*

**AP ART PORTFOLIO PREPARATION** 1.0 credit  
Portfolio is a year-long honors course. By the time a student takes this course, they will have a variety of skills. It is time for students to choose a focus of their own, an idea to explore in-depth, and to pull all of their skills together. A student's work is individually contracted, and the teachers become facilitators. The emphasis is on completing a body of work from their own voice in any medium including animation and film. Students will continue to refine their technical skills as they are presented new conceptual skills. Students will complete an individualized body of work that will give them the ability to apply to any college or art school that requires a portfolio (including the UW system). This body of work can be used to enhance a student's application to college even if they are majoring in another subject area. Art History is a critical component to success in this class. Therefore, Art History is required in conjunction with AP Portfolio. Attendance at MIAD's Portfolio Day, College Presentation Days, and Pius XI Fine Arts Days is mandatory. It is possible to earn between 3 and 9 college credits by taking this course.

PREREQUISITES: Consent of instructor; concurrent enrollment in Context of Western Culture, a Social Science ½ credit.

*In order to have a successful, complete experience in this AP course, students must complete the AP portfolio. If a student does not complete the AP portfolio they will not receive a weighted grade.*

**AP STUDIO ART-11 (AP DRAWING AND PAINTING, OR AP 2-D DESIGN OR AP 3-D DESIGN) 1.0 credit**

This is a portfolio course designed for the junior art student who is ready to begin preparing a focused body of work for college admission and Advanced Placement credit. At least two of the junior level courses (Painting, Experimental Drawing, Photo I, Fibers, Sculpture or Design) must be taken as pre-requisites for juniors in this course. They may be taken concurrently with this class. Junior students will complete their first AP portfolio. AP credits can be earned in Drawing and Painting, 2-D Design, Photography, and/or 3-D Design. Students will continue to refine their technical skills as they are presented new conceptual skills. Students will complete an individualized body of work that will prepare them to enter national competitions and to compete for summer scholarships to prestigious art colleges and universities. Attendance at MIAD'S Portfolio Day, College Presentation Days, and Pius XI Fine Arts Days is mandatory. This course is not required for a student to take AP Art Portfolio.

**PREREQUISITES:** Consent of instructor and two junior-level courses (which may be taken concurrently with AP Studio 11)

*In order to have a successful, complete experience in this AP course, students must complete the AP portfolio. If a student does not complete the AP portfolio they will not receive a weighted grade.*

**AP STUDIO ART -12 1.0 credit**

This is a portfolio course designed for the senior art student who is already taking AP Portfolio and who wants to extend their potential to earn college credit from 3 AP credits to 6-9 AP credits. AP credits can be earned in Drawing and Painting, 2-D Design, Photography, and/or 3-D Design. In order to have a successful, complete experience in this AP course, senior students must complete two portfolios, one in AP Art Portfolio and one in this class. Students will continue to refine their technical skills as they are presented new conceptual skills. Attendance at MIAD'S Portfolio Day, College Presentation Days, and Pius XI Fine Arts Days is mandatory. This course is not required for a student to take AP Art Portfolio.

**PREREQUISITES:** Consent of instructors; concurrent enrollment in AP Art Portfolio

*In order to have a successful, complete experience in this AP course, students must complete the AP portfolio. If a student does not complete the AP portfolio they will not receive a weighted grade.*

# AVID

AVID 9 .5 credit  
AVID 10, 11, 12 1.0 credit

AVID (Advancement Via Individual Determination) is a college preparatory program offered in all grades that focuses on students who are academically proficient yet need support in reading and succeeding in advanced academic courses. The AVID curriculum involves an intensive preparation for higher education by providing students with WICOR (writing, inquiry, collaboration, organization and reading) skills necessary to be succeed in high school. As a result of participating in this course students will develop both hard skills and soft skills with a focus on supporting students in the process of applying to college.

**PREREQUISITE:** Application and Interview required for acceptance into program. 4 year commitment to program required.

# ENGINEERING

## PLTW: INTRODUCTION TO ENGINEERING AND DESIGN (IED) 1.0 credit

This year-long course emphasizes the development of design and teaches problem-solving skills in a project-based environment. Teams of students use solid modeling computer design software to produce, analyze and evaluate models of project solutions.

**PREREQUISITE:** Concurrent enrollment in Algebra I or higher

## PLTW: PRINCIPLES OF ENGINEERING (POE) 1.0 credit

In this second-year course students design and program robotics devices, build and test various machines, and test different materials and systems. Students use math, science and technology to understand, design, and build their prototypes. The course also addresses concerns about the social and political consequences of technological change.

**PREREQUISITE:** Concurrent enrollment in college preparatory mathematics and science (Physics encouraged)\*. Satisfactory completion of IED.

## PLTW: DIGITAL ELECTRONICS (DE) (2018-19) 1.0 credit

This year-long course encompasses applied logic in the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices.

**PREREQUISITES:** Concurrent enrollment in college preparatory mathematics and science. Satisfactory completion of IED and satisfactory completion of/concurrent enrollment in POE.

## PLTW: CIVIL ENGINEERING AND ARCHITECTURE (CEA) (2017-18) 1.0 credit

This year-long course offers an overview of the fields of civil engineering and architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real- world problems and present solutions to hands-on projects and activities in multiple formats, such as PowerPoint, brochures, posters and oral presentations.

**PREREQUISITES:** Concurrent enrollment in college preparatory mathematics and

science. Satisfactory completion of IED and POE.

## RUBE GOLDBERG MACHINE DESIGN 0.5 credit/2 semesters

A team of students will follow the Engineering Design Process to design and construct a complex machine to accomplish a particular task. The team will work throughout the year to research, sketch, build, and present the device. They will compete in the Rube Goldberg Machine Contest in early March. The students and teacher will decide on specific goals, objectives, and responsibilities for both individuals and the team.

**PREREQUISITE:** One credit of science, completion of IED, concurrent enrollment in mathematics and science.

# ENGLISH

## FOUNDATIONS IN COMPOSITION AND LITERATURE 1.0 credit

In this year-long, introductory English course, students will be exposed to a variety of literary classics in multiple genres: short stories, novels, plays and poetry. Students will also master the essential skills necessary to craft complex paragraphs and essays. These fundamental reading and writing skills are an integral and vital component of all subsequent English courses.

## ACCELERATED FOUNDATIONS IN COMPOSITION AND LITERATURE

1.0 credit

This foundational course is designed for the freshman students who demonstrate ability and proficiency in reading and writing: the accelerated course is faster-paced, with more complex literature studied as compared to the Foundations in Composition and Literature.

**PREREQUISITES:** Top 90<sup>th</sup> percentile of class on English Entrance Exam

## THEMES IN WORLD MYTHOLOGY 0.5 credit

In this semester-long sophomore literature course, students will explore philosophical and anthropological thought by studying mythology, the cultures who created the myths and literature. Students will examine questions about the nature of human existence. What is knowledge? What is the relationship between good and evil? How can truth change? What is beauty? Examining these questions from multiple perspectives, students will be challenged to think in new ways.

## GENRES OF WRITING 0.5 credit

In this semester-long sophomore writing course, students will be given the opportunity to hone the writing skills established during freshman year, while broadening students' exposure to the myriad styles and genres of writing. Emphasis will be placed on writing with clarity, voice, organization, purpose, and audience. Students will become familiar with writing as a *process*, with peer evaluations and revision an integral part of class time.

## CONTEMPORARY LITERATURE\* 0.5 credit

This junior level, semester-long course will focus on challenging contemporary literature and the myriad approaches readers can take when interpreting fiction. The course is especially designed for those juniors who plan to take AP Literature during their

senior year, but is open to any motivated junior. The course will give students the solid foundation of reading, writing, discussion and critical thinking skills that are necessary to succeed in the AP course, as well as in college-level English courses. Students who take this course must earn an "A" grade in order to advance to AP Literature.

## 20<sup>th</sup> CENTURY LITERATURE AND THEORY\* 0.5 credit

In this one-semester course students will examine not only literature of the twentieth century, but also the ideas of Modernism and Post-modernism. Students will also explore other art forms such as music, painting and architecture, which helped define the literature, philosophy and culture of the last century. Students will question ideas and systems, make and break connections, and learn to think for themselves in essays, discussions and creative projects.

## ADVANCED WRITING\* 0.5 credit

This one-semester course focuses primarily on the process and discussion of writing through different genres (persuasive essay, personal narrative, literary analysis, etc.). Students will share their compositions with classmates and openly discuss methods of improvement for themselves and their peers. Students will be given the opportunity to write, revise, and critique writing as a class, with partners, and individually. It is an expectation that students will come willing to share, discuss, and improve—as this is a cornerstone of the writing process as a whole.

## LIFE THEMES IN LITERATURE\* 0.5 credit

In this year-long interdisciplinary course with the Theology Department, students examine how archetypal stories and themes which are established in foundational texts, both religious and secular, are echoed in later works. Students trace well-known modern stories to their ancient roots, discovering that classic literature, as literature is today, is a reflection of societal, political, and religious values of the time. Students will have the unique opportunity to see how some archetypal story arcs recur, with authors purposely alluding to older works in order to emphasize some character, theme, symbol, setting, etc. Primary sources, religious documents, excerpts from memoirs, and other texts will be used to aid in this comparison. Students will identify and reflect on themes such as good and evil, power, and gender roles.



## INTERPRETATIONS OF POPULAR LITERATURE

0.5 credit

In this one-semester course students examine how popular forms of literature (modern drama, sports fiction, and short stories) both draw on classic literature and transform it. Students will be given the unique opportunity to study how familiar literary devices such as irony, setting, theme, tone, and ambiguity are reinterpreted for the modern era. In addition to being reading intensive, Interpretations of Popular Literature will provide several opportunities for writing including literary analysis, essay writing, research papers, and papers which allow students to compare and contrast elements of texts with their film counterparts.

## WORLD LITERATURE

0.5 credit

In this one-semester course, designed as a contrast to the more familiar thoughts and behaviors witnessed in Western literature, students will examine literature from Africa, Asia, the Middle East, Australia, and Spanish-speaking worlds. The course will focus on diverse approaches to the themes of ancestry, family, authority, freedom, and love, with an emphasis on the effects of colonialism and imperialism on developed nations. Students will be required to discuss, write essays, research salient topics, and present their findings.

## CAPSTONE: CULTURAL PERSPECTIVES IN NON-FICTION

0.5 credit

In architecture, a capstone refers to the highest stone in an arch; it imparts a visible completion, a final stroke, and a culmination. This one-semester course will provide motivated seniors the opportunity to reflect on their tenure at Pius XI as well as prepare for their future in college and to be members of a global society. Using nonfiction texts as well as documentaries and feature films, students will explore important social issues of our times, truth and reality, colonialism, identity, justice, race, gender, sexual orientation, indigenous social resistance, religion, marriage, extremism and more.

## WOMEN'S VOICES IN LITERATURE

.05 credit

This one-semester course examines contemporary literature (short stories, novels, memoirs, and poetry) by women writers who come from diverse social, cultural, economic, and personal perspectives. Students will become acquainted with the contribution of these women writers to the English literary tradition, with particular focus on literature of dissent. Juniors and seniors who take this course can expect to complete rigorous reading and writing

assignments, as well as participate in thoughtful class discussions, on a daily basis.

## AP ENGLISH LITERATURE AND COMPOSITION

1.0 credit

This year-long course is designed for seniors who have shown exceptional interest and ability in the study of literature and writing. AP Literature and Composition is a rigorous course which relies on the dedication and active participation of each student involved. The novels, short stories, plays and poems are college-level texts, as recommended by the College Board. College credit may be earned by completing the course and the AP Literature exam in the spring.

**PREREQUISITE:** Students must earn an A in both junior level English courses and complete an entrance application and essay.

*In order to have a successful, complete experience in this AP course, students must complete the AP English Exam. If a student does not complete the AP English Exam they will not receive a weighted grade.*



# FITNESS AND WELLNESS

## FRESHMAN CO-ED PHYSICAL EDUCATION

0.5 credit

In this semester-long survey course, students will be introduced to a variety of individual and team activities designed to promote interpersonal and social development. Activities will be centered on lifetime sports, improvement in coordination, muscular strength, muscular endurance, and team-building skills. In addition, students will participate in a weekly fitness class which will enable them to better understand the importance of good cardiovascular fitness. Fitness equipment including the use of heart rate monitors, will enable students to evaluate and monitor their personal level of fitness.

## CONTEMPORARY HEALTH TOPICS 0.5 credit

In this required, one-semester course for freshmen, sophomores or juniors, students will learn basic wellness information that can be applied throughout their lives. Students will study topics such as first aid, CPR, substance use and abuse, nutrition, relationships, and mental health. Students will learn current trends and statistics with regard to these topics, and will use this information to weigh options, and help develop behaviors to make responsible decisions that promote a healthy lifestyle.

**PREREQUISITE:** Students can only take Health Junior year if they have 7.5 or more credits sophomore year.

## SOPHOMORE CO-ED PHYSICAL EDUCATION

0.5 credit

To gain a better understanding of healthy activities that can be pursued after high school, students will acquire a solid understanding of the factors necessary to maintain fitness and wellness, and students will participate in a wide variety of lifetime sports. In addition, students will participate in a weekly fitness class which will enable them to better understand the importance of good cardiovascular fitness. Fitness equipment including the use of heart rate monitors, will enable students to evaluate and monitor their personal level of fitness.

## RACKET UP 0.5 credit

The objective of this course is to introduce students to a number of lifetime activities centered on using rackets and sticks. The course will be divided into

units including: Tennis, Pickle ball, Badminton, Table Tennis, Softball, Lacrosse, Hockey and Golf. Each unit is covered in three ways: instruction, fundamentals, and game/tournament play. Student input will be used in selecting units for individual classes.

## COMPETITIVE TEAM ACTIVITIES 0.5 credit

This course is designed for students interested in developing sport-specific leadership, fitness, and sportsmanship goals through different competitive team activities. Students will accomplish this through several different units including: Basketball, Flag Football, Team Handball, Ultimate Frisbee, Floor Hockey, Eclipse Ball, Sabaki Ball, Kickball, Soccer, Softball and Volleyball. Student input will be used in selecting units for individual classes and organizing tournaments, game play and rule development.

**This is an advanced class for highly skilled motivated students.**

## BODIES IN MOTION 0.5 credit

The goals of this course are to improve muscle development, cardiovascular endurance and flexibility. Students will accomplish this through several different units including: Yoga, Tae Bo, Pilates, Turbo Jam, Powerwalk, Plyometric Training, Zumba, Core Body Development and dance. Student input will be used in selecting units for classes and lesson development.

## FEMALE BODY SCULPTING 0.5 OR 1.0 credit

This class, designed for women only, will focus on sculpting the major muscle groups of the body. Through the use of TRX, free weights, resistance bands, core body exercises and cardiovascular activities, students will sculpt and tone their body in relation to their personal goals. Students will monitor their progress by keeping a log of their workouts. Individual goals are monitored and adjusted throughout the course. **This course may be taken for a semester or an entire year.**

## BODY DEVELOPMENT 0.5 OR 1.0 credit

This class is designed for students interested in developing their muscular strength and fitness through an intensive weight training program. The core program consists of learning and mastering the proper techniques for the bench press, squat, dead lift, and hang clean. Students will create attainable, yet challenging goals by tracking and managing their own daily workout progress. Athletes and non-athletes will benefit from this course. Using peer motivation, individuals will also work to achieve personal success with regard to the Pius XI

weightlifting records. Students taking this class for repeat credits must carry a minimum level of credits in addition to this class. **This class may be taken for a semester or an entire year.**

**LIFETIME SPORTS ACTIVITIES** 0.5 or 1.0 credit  
This class is designed as a culminating physical education experience to put into practice activities, principles, and skills that have been learned in the freshman, sophomore, and junior years. The intent is to encourage students to find activities that are enjoyable and can be continued throughout their lifetime as a way to remain physically fit. The activities are conducted in various sport venues, many of which are held outside of the school facility. Activities include: Golf, hockey, bowling, curling, biking, Frisbee golf, action sports, tennis, archery, and rock climbing. **This course may be taken for a semester or full year.**  
**There is a fee for this non-required course:  
Semester \$80; Year \$130**

# MATHEMATICS

PRE-ALGEBRA 1.0 credit  
See Supplemental Offerings on page 35

ALGEBRA I: ACCCLERATED\* AND STANDARD 1.0 credit

This course provides students with the fundamental mathematical knowledge to deal successfully with later math and science courses. Students will study the real number system through a variety of topics including solving equations, graphing, using quadratic equations and more. There are two levels of Algebra: Accelerated and Standard. If students are interested in a very challenging study of math, they should take Accelerated Algebra. Standard Algebra covers the same topics but with less depth and rigor. Algebra is a graduation requirement. **Students will need a TI-84+ (preferred) or a TI-84 Silver Edition Graphic Calculator for this class.**

GEOMETRY: ACCELERATED\* AND STANDARD 1.0 credit

In this course, students will work with various geometric tools to discover and learn about many geometric shapes, properties and relationships. In the process, students will learn the language of geometry and many of its practical applications. There are two levels of Geometry: Accelerated and Standard. The student's Algebra teacher will help the student select the appropriate level. Geometry is a Pius XI graduation requirement. **Students will need a TI-84+ (preferred) or a TI-84 Silver Edition Graphic Calculator for this class.**

HONORS MATH 3\*

Honors Math 3 is a course designed for students who have shown an exceptional interest and ability in mathematics. In this course students will study a variety of mathematical concepts unified by the function concept. When students are working with the concepts in this course, the emphasis will be on pure mathematics (theory and structure) rather than practical mathematics (applications). Since students are treating the concepts as a discipline in pure mathematics, proofs will be emphasized.

PREREQUISITE: Accelerated Algebra, Accelerated Geometry, and the consent of the instructor.

**Students will need a TI-84+ (preferred) or a TI-84 Silver Edition Graphic Calculator for this class.**

ALGEBRA AND TRIGONOMETRY

This accelerated course is separated into two parts. The first part of the course extends a student's knowledge of algebra from freshman year. Students will study algebra further, and put it in the context of functions. The second part of this course focuses on trigonometry. Trigonometry directly translates to "the measurement of triangles." In this class, students will use their new knowledge of this topic in many real-life applications. This course will prepare students for further study in college preparatory mathematics, including Pre-Calculus. PREREQUISITE: Algebra, Geometry and the recommendation of the current math instructor. **Students will need a TI-84+ (preferred) or a TI-84 Silver Edition Graphic Calculator for this class.**

ALGEBRA 2 1.0 credit

In this course students will strengthen their mathematical skills and problem-solving skills and deepen their understanding of algebra.

PREREQUISITE: Algebra, Geometry, and the recommendation of a student's current math instructor.

**Students will need a TI-84+ (preferred) or a TI-84 Silver Edition Graphic Calculator for this class.**

PRE-CALCULUS 1.0 credit

This course has multiple objectives, all of which should help prepare students for calculus and/or other college-level math courses. Specifically, students will study a wide variety of functions and function behavior. Using their graphic calculators and other analytical methods, students will learn to identify, graph, and transform functions. Students will come to see the commonality of all functions and their connectedness to other mathematical concepts. In the process of exploring the world of functions, students will develop a more solid comprehension and mastery of important mathematical skills and concepts to which they have already been exposed. Students will also be introduced to new types of problems, as well as new ways of solving old problems.

PREREQUISITES: An advanced Algebra Class and the recommendation of the current math instructor.

**Students will need a TI-84+ (preferred) or a TI-84 Silver Edition Graphic Calculator for this class.**

TRIGONOMETRY 0.5 credit

This course will extend a student's knowledge of the relationships between sides and angles in a triangle. Topics include degree and radian measure, defining and evaluating the six trigonometric functions, basic trigonometric identities, the unit circle, graphing trigonometric functions and solving trigonometric equations.

PREREQUISITES: Algebra 2 or consent of the current math instructor.

**Students will need a TI-84+ (preferred) or a TI-84 Silver Edition Graphic Calculator for this class.**

STATISTICS 0.5 credit

Statistics is a one-semester course in which students will compute, interpret and analyze data from real-world situations. Students will learn how statistics are used in a wide variety of areas to persuade, inform or make predictions.

PREREQUISITES: Algebra 2 or consent of the current math instructor.

**Students will need a TI-84+ (preferred) or a TI-84 Silver Edition Graphic Calculator for this class.**

AP CALCULUS AB 1.0 credit

This course covers those topics identified by most colleges and the College Board for inclusion in the first semester of college scientific calculus. Students will focus on solving problems related to the mathematical concepts rather than on simply performing isolated mathematical operations. Students will view course content from numeric, algebraic and graphic perspectives with an emphasis on the communication of mathematical ideas. Students enrolled in the course are prepared to take the Advanced Placement Calculus AB Exam.

PREREQUISITE: Grade of B or better in Honors Math 3 or Pre-Calculus or the consent of the instructor.

**Students will need a TI-84+ (preferred) or a TI-84 Silver Edition Graphic Calculator for this class.**

*In order to have a successful, complete experience in this AP course, students must complete the AP Calculus AB Exam. If a student does not complete the AP Calculus AB Exam they will not receive a weighted grade.*

AP STATISTICS 1.0 credit

See Supplemental Offerings on Page 35

# PERFORMING ARTS

## CHORAL MUSIC

**MIXED CHOIR** 1.0 credit  
Mixed Choir is open to all singers at any grade level without audition. Students will learn all of the technical skills they need to be confident about singing. Mixed Choir sings a wide variety of musical styles. This group participates in the Pius XI concert season and performs occasionally in the community. For freshmen, the path to discovering choral music begins here. In addition, other performing experiences are offered, such as State Honors Choir auditions, Solo and Ensemble Festival, choral festivals and voice master classes.

**ADVANCED CHOIR** 1.0 credit  
This choir is for sophomores, juniors and seniors who have shown considerable musical achievement and are expected to perform at a high level. In this class students will study a wide range of literature designed to help refine their skills in note-reading, world languages, voice production and artistic performance. This group participates in the Pius XI concert season and performs regularly in the community.

PREREQUISITE: By audition

**CONCERT CHOIR** 1.0 credit  
This choir is an advanced ensemble of sophomores, juniors and seniors who have shown exceptional musical achievement. Challenging choral repertoire from all major style periods will be studied and performed. This group participates extensively in the Pius XI concert season and performs frequently in the community.

PREREQUISITE: By audition

**VOCAL JAZZ** 0.5 credit  
This class is comprised of sophomores, juniors and seniors who are selected by audition from the other choirs. These groups work on vocal jazz, improvisation, and solo singing. They perform with a rhythm section, participate in the Pius XI concert season, and perform in community events and jazz festivals. To be in this course students must be enrolled in Concert Choir or Advanced Treble Choir. This course is one-half credit.

PREREQUISITE: By audition

**MADRIGAL ENSEMBLE/LADIES IN WAITING** 0.5 credit

In this chamber ensemble of 16 select singers, the student will concentrate on music of the 15th & 16th centuries, and dress in period costumes of an English royal court. The Madrigals perform extensively throughout the school year. Their season includes a madrigal dinner every other year and regular performances in the community. To be in this course, students must also be enrolled in Concert Choir. This course is one-half credit.

PREREQUISITE: By audition

## INSTRUMENTAL MUSIC

**BEGINNING BAND** 1.0 credit  
This course is for any student interested in learning how to play one of the following instruments: flute, oboe, clarinet, bassoon, saxophone, French horn, trumpet, trombone, euphonium or tuba. This course offers instruction in fundamental technical skills and music reading in a supportive, enjoyable ensemble experience. Students will be introduced to many styles of music including folk, jazz and classical. The Beginning Band will perform in concerts during the Pius XI instrumental concert season and with the Pius XI Performing Arts Academy ensembles. Attendance at these performances is required as is daily practice at home.

**PERCUSSION ENSEMBLE** 1.0 credit  
This ensemble is for any student with at least one year of percussion experience on both mallet instruments and drums. This course develops an understanding and application of correct performance techniques on all percussion instruments. The percussion ensemble will perform as a drum line in coordination with the pep band and in concerts during the Pius XI instrumental concert season.

**SYMPHONIC BAND** 1.0 credit  
This ensemble is for any student with prior experience on a wind, brass or percussion instrument. This course offers instruction in advanced playing techniques and repertoire. Students will rehearse and perform music from a wide variety of styles while honing their ensemble skills. The Symphonic Band will perform in concerts during the Pius XI instrumental concert season, as a pep band, and at the state solo and ensemble festival. Attendance at the performances is required as is daily practice at home.

PREREQUISITE: by audition

## BEGINNING STRINGS

1.0 credit

This ensemble is for any student interested in learning how to play one of the following instruments: violin, viola, cello or double bass. This course offers beginning, fundamental technical skills and music reading in a supportive, enjoyable ensemble experience. No prior playing experience is necessary. Students will be introduced to different styles of music including folk, jazz and classical. The Beginning Strings will perform in concerts during the Pius XI instrumental concert season and at the district solo and ensemble festival. Attendance at these performances is required as is daily practice at home.

## INTERMEDIATE /STRING ORCHESTRA

1.0 credit

This ensemble is for any student with experience playing an orchestral string instrument (violin, viola, cello, or double bass). This course offers continuing instruction in fundamental and advanced technical skills and music reading in a supportive, enjoyable ensemble experience. Students will play in many styles of music including folk, jazz, classical, and contemporary, and will hone their ensemble skills. The Intermediate Strings and String Orchestra will perform in concerts during the Pius XI instrumental concert season and at the district solo and ensemble festival. Attendance at these performances is required as is daily practice at home.

Intermediate Strings is for any student with one to two years of playing experience. String Orchestra is for any student with more than two years of playing experience.

PREREQUISITE: by audition

## AP MUSIC THEORY

1.0 credit

AP Music Theory is geared toward the student looking to begin a serious study of music in preparation for the college level. Using written and recorded musical examples, from classical to contemporary, students will start to think about the patterns inherent in music and discover why music is written the way it is. Through these studies, the student will further their technical and interpretive skills to enhance and reinforce their musical intuition. Current knowledge of music will be studied by exploring notation, rhythms, key signatures, time signatures, melodic and harmonic analysis, part-writing, arranging and composition. In addition, units on ear-training and sight-singing will

be examined. This is an excellent introductory course for those students interested in continuing their music studies in college.

PREREQUISITE: Students must complete an entrance pretest and score a C or better or consent of the instructor.

*In order to have a successful, complete experience in this AP course, students must complete the AP Music Theory Exam. If a student does not complete the AP Music Theory Exam they will not receive a weighted grade.*

## DANCE

BEGINNING DANCE 0.5 credit

Beginning Dance will encompass various forms of dance; incorporating ballet, jazz, hip hop and modern. An emphasis on ballet will ensure students understand the root of dance and develop a basic understanding of dance fundamentals including terminology and placement. Students will be introduced to the history of ballet, jazz, and modern dance genres. No previous dance experience is necessary. This is a one-semester course.

DANCE I 1.0 credit

Using a ballet-based approach, Dance I explores movement as a creative art form. Students will become acquainted and develop a basic understanding of dance fundamentals including terminology, placement and strength. Through dance ensemble work and improvisation, students use creative and critical thinking skills to create and communicate meaning through dance movement. No previous dance experience is necessary. Students will also explore jazz, hip hop and modern styles. Students will be introduced to the history of ballet, jazz, and modern dance genres as well as explore a variety of career opportunities in dance. This is a two-semester course that includes a performance opportunity at the end of the year.

DANCE 2 1.0 credit

Dance 2 will emphasize the students' acquisition of intermediate movement skills and refined motor control. Students learn to take responsibility for their personal health and to care for their dance instrument. Through dance ensemble work, students continue to explore improvisation, dance elements and composition as both dancer and choreographer. Further awareness is enhanced through the study of dance history, the exploration of dance through a variety of cultural contexts and dance as a career choice.

PREREQUISITE: By audition



**DANCE 3** 1.0 credit  
 Dance 3 students demonstrate a commitment to attaining an intermediate level of technical skill and performing with greater fluency, precision and articulation as well as a commitment to a dancers' personal fitness. Students will combine the use of improvisation, dance elements, choreographic principles and technical/theatrical elements to explore the creation of meaningful dance compositions. Students are encouraged to communicate personal feelings, thoughts, ideas and concepts through the skillful use of dance movement and in the presentation of their choreography. Students will also analyze and evaluate in a constructive manner the impact of their choreography and work of others. Students will continue their study of dance through cultural and historical viewpoints. Dance 3 will prepare dancers for the audition process and inform dancers of the occupational opportunities available after high school.

**PREREQUISITE:** By audition

**DANCE 4** 1.0 credit  
 Dance 4 provides the student with the opportunity to develop an advanced level of dance technique and refine their skills as both performer and choreographer. This course is designed to prepare the student for continuing or pre-professional training in the disciplines of Dance. Students apply their creative and technical knowledge and skills through a variety of performance opportunities. Using expanded aesthetic criteria students analyze, synthesize and evaluate their choreography as well as works of others. Students will explore the current developments in dance and of the Twentieth Century. Studies include the purpose of dance, dance genres and styles, artistic conflicts and resolutions, innovations, social issues and significant contributors. Students will focus on the development and achievement of their personal dance goals.

**PREREQUISITE:** By audition

**DANCE 5** 1.0 credit  
 Dance 5 provides the student with the opportunity to develop a pre-professional level of dance technique and learn repertoire in a professional dance atmosphere. This course is designed to prepare the student for continued dance training

following high school in professional or collegiate dance programs. Students apply their advanced technical knowledge to create original works and perform professional level repertoire in a variety of performance opportunities. Studies include the purpose of dance, dance genres and styles, artistic choices, and innovations as well as current dance topics and contributors. Students will focus on the development and achievement of their personal dance goals.

**PREREQUISITE:** By audition

### THEATER

**ACTING 1A** 0.5 credit  
 Acting 1A is a thorough, fundamental acting class. Students will explore the basic skills of acting as they learn how to create a truthful, sustained character in a scripted or improvised scene. The focus point of this class is the application of given circumstance, objective, action and obstacle in performing scenes from classic and contemporary American plays. Students will explore through discussion and written work how plays reflect society and how they connect to their own lives.

**ACTING 1B** 0.5 credit  
 Acting 1B is a thorough, fundamental acting class. Students will explore the basic skills of acting as they learn how to create a truthful, sustained character in a scripted or improvised scene. The focus point of this class is the application of given circumstance, objective, action and obstacle in performing scenes from classic and contemporary American plays. Students will explore through discussion and written work how plays reflect society and how they connect to their own lives.

**ACTING 2** 0.5 credit  
 Acting 2 is a rigorous, practical acting class. Students will explore improvisation, scenes, monologues and plays as tools for unlocking truthful, spontaneous behavior and refining their skills as actors. Emphasis will be on physical and emotional characterization with the application of given circumstance, objective, action and obstacle to naturalistic writing. Students will demonstrate their mastery in a final performance and talkback with an invited audience.

**PREREQUISITE:** Acting 1

**ACTING 3** 0.5 credit  
Acting 3 is designed as an introduction to a non-naturalistic style of acting (Restoration, Elizabethan, Greek, and Commedia) and the theatrical history of the particular time period. Students will read, analyze and discuss a historic text, vocalize/articulate verse and poetic language, and bring to life classical characters through period movement, dress and make-up. Additionally, students will create their own stylized characters and continue learning to critique their own work and the work of their peers. Students will demonstrate their mastery in a final live performance and talkback with an invited audience.

**PREREQUISITE:** Acting 2

**ACTING 4** 0.5 credit  
Acting 4 is designed to allow students to fully apply the skills they have acquired from their previous acting classes in a full production of a work by a master playwright (Sophocles, Shakespeare, Ibsen, and Chekhov). Students will read, analyze and discuss this text and understand the social/historical significance of the work. Using their foundational skills, students will make strong actor choices in voice, movement and character. Students will take part in every aspect of production, from marketing to design, and demonstrate their mastery in a final live performance and talkback with an invited audience.

**PREREQUISITE:** Acting 3

**DIRECTING** 0.5 credit  
(2017-18)  
Directing is an introduction to the basic skills of stage direction. Using a major play as a guide, students will analyze the basics of plot, text, spatial composition, and character analysis. They will also learn how to discover the playwright's intent and understand the importance of sound, set, costume and lighting design. Additionally, students will create a director's journal, prepare for auditions and plan a rehearsal schedule. Students will work together to demonstrate their mastery with final scene live performances and screening night for their video project.

**TECHNICAL THEATER** 0.5 credit  
(2018-19)  
Technical Theater is a "behind the scenes" immersion into the theater and its many components. Using a major play as a guide, students will learn the fundamentals of light, sound, costume and make-up design. Students will also construct a three-dimensional model as part of a top design competition. The winning design will be selected

and built for a Pius XI production the following year. The class also offers a step-by-step guide in the area of stage combat choreography. Students will have the opportunity to show their mastery of combat skills in a final live performance and talkback with an invited audience.

**BASIC IMPROVISATION** 0.5 credit  
In this course, students will explore the creation of characters and scenes through games, free-form exercises and script writing. Emphasis will be placed on learning and mastering the fundamentals of improvisation including: spontaneity, listening and responding to your partner, and making/accepting offers. Additionally, students will learn to critique and evaluate their own work and the work of their peers. Students will demonstrate their mastery of these skills in a final class performance in front of an audience.



# SCIENCE

**BIOLOGY** 1.0 credit  
Biology is the study of living organisms. In this year-long course, students will begin by investigating the basic unit of life: the cell. As the course progresses, students will gain useful scientific skills through hands-on inquiry labs, that utilize biological tools, current technology, data collection and analysis. The knowledge and skills acquired in Biology will be applied to real-life concepts. Students will need a B or better in Biology in order to take AP Biology.  
**PREREQUISITE:** Sophomore standing or HSPT Reading Score of 40 and HSPT Math Score of 36 (placement in Algebra I or higher)

**AP BIOLOGY** 1.0 credit  
This rigorous year-long course gives students a grasp of science as a process of testing and revising ideas and to help students apply their knowledge and critical thinking skills to environmental and social concerns. Students will gain an understanding of the course content through extensive lab-work and the use of technology. Students will be required to do a considerable amount of reading on their own.  
**PREREQUISITES:** Completion of Biology and Chemistry with a grade of B or better in both.

*In order to have a successful, complete experience in this AP course, students must complete the AP Biology Exam. If a student does not complete the AP Biology Exam they will not receive a weighted grade.*

**CHEMISTRY\*** 1.0 credit  
Chemistry is the study of matter and how it changes. In this class students will perform a variety of laboratory investigations as a means of studying these changes and providing a foundation on which to build an understanding of concepts, such as how atoms are structured and how chemicals react and bond with one another. By studying how matter and energy interact, students will gain a greater understanding of the chemical nature of the world and how chemistry is a part of everyday life.  
**PREREQUISITES:** B or better in Algebra I or B or better in Physical Science or consent of instructor

**PHYSICS\*** 1.0 credit  
In this year-long course students will view real-life situations conceptually and mathematically and explore the laws of physics that govern them. Each week students will work in the laboratory collecting

and analyzing data while conducting experiments that will demonstrate, verify, and allow them to discover these laws of physics.

**PREREQUISITES:** B or better in Algebra I or B or better in Physical Science or consent of instructor

**AP PHYSICS** 1.0 credit  
This Algebra based course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, and power, mechanical waves and sound. It will also introduce electric circuits. This material is organized around seven foundational big ideas in physics that structure the course. Focus on a series of learning objectives that combines physics content with one or more of seven fundamental science practices provides a more engaging and rigorous experience for AP Physics students .

**PREREQUISITES:** Concurrent enrollment in an upper-level math class. Application and consent of instructor required. Successful completion of Physics is recommended but not necessary.

*In order to have a successful, complete experience in this AP course, students must complete the AP Physics Exam. If a student does not complete the AP Physics Exam they will not receive a weighted grade.*

**PHYSICAL SCIENCE** 1.0 credit  
Physical Science is a laboratory science course that explores the relationship between matter and energy. Students will investigate physical science concepts through an inquiry- based approach. Topics include properties and classification of matter, structure and properties of atoms, chemical bonding and reactions, motion, work, simple machines and forces. This course will aid students in developing inquiry and problem solving skills as well as developing a background knowledge for success in further science courses.

**Cannot be taken if successfully completed Chemistry or Physics**

**PLTW: PRINCIPLES OF BIOMEDICAL SCIENCE** 1.0 credit  
In this year long course, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce

students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve.

**Can be taken concurrently with Biology or after successful completion of Biology**

**PLTW: HUMAN BODY SYSTEMS 1.0 credit**  
In this year-long course, students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

**PREREQUISITE:** C or better in Principles of Biomedical Science

**ASTRONOMY 0.5 credit**  
(2017-18)

In this one-semester course students will study concepts of astronomy, including highlights of current discoveries in the field of outer space research. Labs will demonstrate the principles needed to understand the heavens. Besides the course material, students will study a topic of their choice from astrophysics to cultural folklore on constellations. By the end of the course students will be able to function as an amateur astronomer. One field trip is mandatory and other optional night observations will be scheduled.

**PROCESSES OF PLANET EARTH (POPE)**  
(2018-19) 0.5 credit

In this one-semester course, students will study the earth and the universe. Students will learn about the origin, composition and physical features of our planet. Through hands-on lab investigation, class discussion, experiments and technology, students will analyze and describe the Earth's interconnected systems and examine how the Earth's materials, landforms and continents change over time. Topics include earthquakes and plate tectonics, Earth's geological history, the atmosphere, weather, rivers and streams and the impact on the environment.

**ENVIRONMENTAL SCIENCE\*** 0.5 credit  
(2017-18)

In this one-semester, activity-based course, students will explore the relationships between organisms and the environment. Humans have impacted the environment, and students will investigate many of the issues which have resulted from the interaction

with the living and non-living world. Students will become more aware of these issues and their ability to make a difference. Throughout the course students will explore current environmental research and conservation efforts through laboratory investigation, analysis or computer-generated data, and individual and group projects.

**PREREQUISITE:** Successful completion of Biology and an interest in the environment.

**AP ENVIRONMENTAL SCIENCE 1.0 credit**  
The goal of this year-long course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The Earth itself is one interconnected system, and humans affect this system. Environmental problems have a cultural and social context. Our very survival depends on developing practices that will achieve sustainable systems. In this course students will identify and analyze environmental problems, both natural and human-made. Students will learn to evaluate the relative risks associated with these problems and alternative solutions for resolving or preventing them.

**PREREQUISITES:** Successful completion of Biology and successful completion or concurrent enrollment in Chemistry, or consent of Instructor.

*In order to have a successful, complete experience in this AP course, students must complete the AP Environmental Exam. If a student does not complete the AP Environmental Exam they will not receive a weighted grade.*

# SOCIAL SCIENCE

## INTRODUCTION TO SOCIAL SCIENCE

1.0 credit

This full-year course is designed to form a foundation of skills and knowledge for the study of subsequent courses available in the Social Sciences. Topics in Social Science areas will be covered with a focus on vocabulary and major themes.

## WORLD HISTORY

1.0 credit

This full-year course is designed to take students around the world on a journey through time. In each unit students will study the geography, history, culture and current concerns of a given region, focusing on key ideas and theories related to cultural development. Throughout the course, an understanding about the world is explored to develop ongoing analysis.

**PREREQUISITE:** Top 20% on Entrance Exam or consent of instructor

## DIVERSITY AND HUMAN RIGHTS IN AMERICA

0.5 credit

This one-semester course will survey the evolution of the rights of all Americans in our history. Focus groups will be Native Americans, African Americans, Hispanic Americans, and Women. A unit will also be dedicated to a collection of groups who have been “othered.” The ongoing focus throughout the semester is to identify, understand and proactively approach all the ism’s that impact our daily lives.

**PREREQUISITE:** Sophomore, Junior, Senior standing

## FOUNDATIONS OF AMERICAN GOVERNMENT

0.5 credit

This is a one-semester course in which students will study the Constitution as the basis for our political system, along with federal, state and local governments. This course is required as a prerequisite for U .S. History and is required for graduation.

**PREREQUISITE:** Sophomore Standing

## HONORS AMERICAN GOVERNMENT \*

0.5 credit

This one-semester course helps students develop the skills and strategies necessary for achieving success in social science Advanced Placement courses. The course focuses on the structure, formation and function of American government and the early history of the United States. This course will introduce content in more depth than the Foundations of American Government class.

## Required as a prerequisite to AP US History

### ECONOMICS

0.5 credit

In this one-semester course students will gain an understanding of the “economic way of thinking” and how it is used in life decisions. Economic thinking focuses on how to meet people’s unlimited wants with limited resources. It will be applied to the study of personal investing, the stock market, different business enterprises and the role of prices in the economy. This course is important for all students, especially for those who are up to the challenge of unpacking the economic questions in life.

**PREREQUISITE:** Sophomore, junior or senior standing

### AP MACROECONOMICS

1.0 credit

This is a full-year course offered to sophomores, juniors and seniors. The course is designed to help students develop critical-thinking skills through the understanding, application, and analysis of fundamental economic concepts. Students will be expected to apply economic logic to a wide variety of real-world and hypothetical situations. The goal is to understand the “linkages” describing the chain of events leading to economic conclusions. This AP course can be taken even if a student has passed the regular Economics course. This is a Concurrent Credit Course with Cardinal Stritch. Beyond the possibility of obtaining AP credit, if you obtain a C average and pay Cardinal Stritch tuition of \$400, you will be able to gain transcribed college credit.

**PREREQUISITE:** Sophomore, junior or senior standing. Current cumulative GPA and Social Science performance used by instructor as criteria for access to class.

*In order to have a successful, complete experience in this AP course, students must complete the AP Psychology Exam OR take the class concurrently and pass with a “C” or better.. If a student does not complete the AP Psychology Exam they will not receive a weighted grade.*

### PSYCHOLOGY

0.5 credit

Psychology is the scientific study of why people think, feel and behave the way they do. In this one-semester course students will explore in-depth issues such as functions of the brain, visual illusions, the formation of memory, gender differences in development, personality traits, conformity, and mental disorders . Emphasis will be placed on the “doing” of psychology through experiments and other related activities

**PREREQUISITE:** Junior or Senior standing

**AP PSYCHOLOGY** 1.0 credit  
This full-year course is a more in-depth and faster paced course than regular Psychology. Greater emphasis is placed on critical thinking and the evaluation of the theories as they are applied to the study of why people feel and behave the way they do. Assignments and activities will be geared to strengthen critical analysis of material. The “doing” of psychology is stressed in that students will design and carry through a study and will be able to report your findings in a college-level scientific style. This is a Concurrent Credit Course with Cardinal Stritch. Beyond the possibility of obtaining AP credit, if you obtain a C average and pay Cardinal Stritch tuition of \$400, you will be able to gain transcribed college credit.

**PREREQUISITE:** Junior or senior standing; junior students must have the consent of the instructor. Current cumulative GPA and Social Science performance used by instructor as criteria for access to class.

*In order to have a successful, complete experience in this AP course, students must complete the AP Psychology Exam OR take the class concurrently and pass with a “C” or better.. If a student does not complete the AP Psychology Exam they will not receive a weighted grade.*

**UNITED STATES HISTORY** 1.0 credit  
This is a general survey, full-year course of the history of the United States, covering the period from the early 19th century to the recent past. Students will learn about the political, social and economic factors that shaped America. **This full-year, one-credit course is required for graduation.**

**PREREQUISITE:** Junior standing and Foundations of American Government.

**AP UNITED STATES HISTORY** 1.0 credit  
This full-year, Advanced Placement course is an in-depth study of the history of the United States from the age of discovery to the present. It emphasizes the political, social and economic factors that shaped American institutions. This course is taught at a college level and requires significant independent effort on the part of the student. It will fulfill the United States History requirement for graduation. This course is not open to students who have taken regular U.S. History. This is a possible Concurrent Credit Course with Cardinal Stritch. Beyond the possibility of obtaining AP credit, if you obtain a C average and pay Cardinal Stritch tuition of \$400, you will be able to gain transcribed college credit.

**PREREQUISITE: Successful completion of Honors American Government.**  
Consent of the instructor required.  
Current cumulative GPA and Social Science performance used by instructor as criteria for access to class.

*In order to have a successful, complete experience in this AP course, students must complete the AP Psychology Exam OR take the class concurrently and pass with a “C” or better.. If a student does not complete the AP Psychology Exam they will not receive a weighted grade.*

**SOCIOLOGY** 0.5 credit  
This one-semester course has been designed to help students become a “practicing” sociologist. Students will study five units: the history of sociology, social economics, American cultural values, love and marriage, and socialization.

**PREREQUISITE:** Senior standing

**AP EUROPEAN HISTORY** 1.0 credit  
This is a full-year course that traces the development of Europe from c .1400 to present—that is—from the High Renaissance to the recent past. Within these parameters, the study will focus on the intellectual, political, artistic, social and economic history of modern Europe. The class emphasizes understanding themes, examining historical evidence and being able to analyze and express historical understanding in writing. This course will be taught on a college level. This is a possible Concurrent Credit Course with Cardinal Stritch. Beyond the possibility of obtaining AP credit, if you obtain a C average and pay Cardinal Stritch tuition of \$400, you will be able to gain transcribed college credit.

**PREREQUISITE:** Application and consent of instructor required.

*In order to have a successful, complete experience in this AP course, students must complete the AP Psychology Exam OR take the class concurrently and pass with a “C” or better.. If a student does not complete the AP Psychology Exam they will not receive a weighted grade.*

THE CONTEXT OF WESTERN CULTURE: 1700-  
PRESENT 0.5 credit

In this one-semester course students will investigate contemporary issues in art as well as the historical and cultural contexts in which art is created. Students will explore the interaction of art and society with emphasis on 19th and 20th century art movements. The course is team taught by both Social Sciences and Art faculty. The Advanced Placement Test is optional. This course is required for AP Portfolio students. A class museum visit to Chicago is required.

# SPECIAL STUDIES

## LEARNING DISABILITY PROGRAM

This ungraded, non-credited program provides academic support for students who have been diagnosed with Specific Learning Disabilities by a professional educational evaluator such as a psychologist or IEP Team. Students are 100% mainstreamed into the regular Pius XI classroom curriculum. Individualized instruction focuses on the development of study skills, successful performance in regular classes, developing compensatory skills and self-advocacy skills, and planning for post-secondary success. The program services are provided to Freshmen, Sophomores, Juniors and Seniors who meet the criteria.

## READING STRATEGIES 1.0 credit

This year-long course is designed to assist students in increasing their reading skills and comprehension. The course focuses on strengthening comprehension, fluency, and vocabulary skills. Individualized instruction is utilized so that a student's specific needs can be met effectively. Student progress will be assessed periodically. To test out of the program, students need to test out at grade level.

**Students required to be in this course should wait until Sophomore year to take World Language.**



# THEOLOGY

## FOUNDATIONS OF SCRIPTURE: HEBREW SCRIPTURES 0.5 credit

In this course students will examine biblical roots as their ancestors' paths are traced from their early understanding of God through their deepening appreciation of God's salvation. Students will examine the stories of the Patriarchs and the Matriarchs, the Prophets and the Kings. In this course connections will be made between the faith journeys of our ancestors to a student's faith journey.

PREREQUISITE: Freshman standing

## FOUNDATIONS OF SCRIPTURE: CHRISTIAN SCRIPTURES 0.5 credit

This course will introduce students to Jesus the Christ. Students will learn how Jesus came to fulfill the Hebrew expectations for the Messiah. Students will explore the early struggles of the first Christians and relate those struggles to modern-day issues with the Catholic Church and the world.

PREREQUISITE: Freshman Standing

## FOUNDATIONS OF THEOLOGY: CATHOLIC FAITH 0.5 credit

This course is designed to provide students with the basic teachings of the Catholic faith, and to help them understand how those teachings and practices help them grow in love of God, self and others. Students will explore the four basic questions of human experience: How did we get here? Why are we here? How should we live our lives? What happens when we die? Students will come to understand that the Catholic Church is a community of people who believe in the reality of God and shape their lives accordingly.

PREREQUISITE: Sophomore standing

## FOUNDATIONS OF THEOLOGY: CHURCH HISTORY 0.5 credit

This course will examine the lives of people and major events that have shaped the Catholic Church from the Roman persecutions to the Renaissance and Reformation. The course will explore the roots of Catholic Doctrine as well as the evolution of thought in the church.

PREREQUISITE: Sophomore standing

## LIFE THEMES IN LITERATURE 0.5 credit

In this year-long interdisciplinary course with the English Department, students examine how

archetypal stories and themes which are established in foundational texts, both religious and secular, are echoed in later works. Students trace well-known modern stories to their ancient roots, discovering that classic literature, as literature is today, is a reflection of societal, political, and religious values of the time. Students will have the unique opportunity to see how some archetypal story arcs recur, with authors purposely alluding to older works in order to emphasize some character, theme, symbol, setting, etc. Primary sources, religious documents, excerpts from memoirs, and other texts will be used to aid in this comparison. Students will identify and reflect on themes such as good and evil, power, and gender roles.

PREREQUISITE: Junior or Senior standing

## CHRISTIAN MINISTRY (BIG BUDDY) 0.5 credit

This senior-only course provides students with the opportunity to serve both the Pius XI community and do outreach for the local community. It is a peer-to-peer mentoring program in which Seniors guide and welcome the Freshmen into the Pius XI Catholic High School community. Students must apply for this course.

PREREQUISITE: Senior standing

## CHRISTIAN SPIRITUALITY (2017-18) 0.5 credit

Through journaling, art, music, class discussion, movies and meditation students will be given the opportunity to explore various forms of prayer. Students will discover how these ways of relating to God are practiced in the Catholic Faith as well as how they impact their view of themselves, others, and the world around them. This course will provide students with the time to reach out toward a deep and healthy relationship with God and neighbor.

PREREQUISITE: Junior or Senior standing

## COMPARATIVE RELIGIONS (2018-19) 0.5 credit

Have you ever wondered what people of other faiths believe? Do all people believe in Heaven or Hell? What is reincarnation? Why do Muslims pray five times a day facing Mecca? In this class students will learn the answers to these and many other questions they may have about non-Christian religions.

PREREQUISITE: Junior or Senior standing

HONORS THEOLOGY: PHILOSOPHY FOR  
THEOLOGY

0.5 credit

In this one-semester, college-level course, students will investigate meaning-of-life questions such as, “Why am I here?” “Who is God?” and “How should I act in this life?” Students will examine these questions and others in the light of Catholicism’s greatest theologians and philosophers. Students will develop a theological vocabulary and a deeper understanding of the Church’s teachings, which will enable them to reflect on their own life. By taking this course students will be able to face life’s challenges with intelligence and support from the Catholic perspective. This is a Concurrent Credit Course with Cardinal Stritch. Beyond the possibility of obtaining AP credit, if you obtain a C average and pay Cardinal Stritch tuition of \$400, you will be able to gain transcribed college credit.

PREREQUISITE: Junior or Senior standing;

JUSTICE AND LIBERATION IN SCRIPTURE:  
CATHOLIC SOCIAL TEACHING

0.5 credit

In this course students will examine scriptural writings related to themes such as diversity, gender, economics and non-violence in an attempt to help them think about and discuss how these themes are still very much part of our world today. Students will also explore how the Gospel message of justice and liberation, as expressed in Catholic Social Teaching, continues to challenge them to respond. Students will be required to do service for this course. This is a Concurrent Credit Course with Cardinal Stritch. Beyond the possibility of obtaining AP credit, if you obtain a C average and pay Cardinal Stritch tuition of \$400, you will be able to gain transcribed college credit.

PREREQUISITE: Junior or Senior standing

MORALITY AND ETHICS

0.5 credit

This course is designed to help students understand and evaluate their own personal morality through prayer experiences, reflection and class discussions. Students will critically examine contemporary ethical issues such as lying, cheating, teen sex, abortion, euthanasia and the death penalty in light of the Catholic faith, Scripture and the inherent dignity of the human person.

PREREQUISITE: Junior or Senior standing;

**This class is a graduation requirement.**



# WORLD LANGUAGE

**FRENCH I** 1.0 credit  
In French I students will begin to acquire skills in speaking, writing, and comprehending spoken and written French. Students will perform conversation activities in real-life situations, engage in language and culture projects, interpret music and videos, and perform online activities to increase their communication skills and knowledge of Francophone cultures.

**FRENCH II** 1.0 credit  
In French II students will continue to develop their speaking, listening, reading, and writing skills. Students will perform a variety of activities and projects to increase their proficiency, including many authentic speaking assessments. Students will continue to explore the cultures of France and other Francophone countries through cultural projects and web-based activities.

**PREREQUISITE:** Successful completion of French I or placement exam

**FRENCH III** 1.0 credit  
In French III students will expand and strengthen their skills in speaking, listening, reading, and writing. Students will implement their speaking skills in various real-life situations. Students will analyze important works of French literature, art, current events, music, and film. They will also be creating their own compositions to demonstrate their knowledge of vocabulary and grammar.

**PREREQUISITE:** Successful completion with a C or higher of French II

**FRENCH IV** 1.0 credit  
In French IV students will speak and hear French almost exclusively as they gain more fluency. Students will apply their skills in speaking, listening, reading, and writing to various contextualized topics. Students will improve their conversational skills and express themselves using expanded vocabulary and higher-level grammatical structures. Students will study French history, various Francophone cultures, and analyze short stories, poetry, songs, and excerpts from longer works.

**PREREQUISITE:** Successful completion with a C or higher of French III

**SPANISH I** 1.0 credit  
In Spanish I, students will learn to speak and understand Spanish at a beginning level, acquiring basic vocabulary and grammar skills. Students will do partner conversation activities, group scenes,

projects, videos and online activities to acquire language skills and cultural knowledge of the Spanish-speaking world.

**SPANISH II\*** 1.0 credit  
In Spanish II students will continue to focus on building vocabulary and grammar knowledge to speak and understand basic Spanish. In this course students will perform a variety of class activities and create projects to develop their skills in listening, speaking, reading and writing. Students will continue to broaden their knowledge of the Spanish-speaking world through cultural projects and Internet activities.

**PREREQUISITE:** Successful completion of Spanish I or placement exam

**SPANISH III\*** 1.0 credit  
In Spanish III students will expand what they have learned in Spanish I and II. The emphasis will be on conversation and reading. Students will be expected to use the language and be able to function appropriately in various situations as they increase their knowledge of Spanish vocabulary and grammar. Students will be reading literary passages and articles on current events, watching Spanish films, and studying the cultures of various regions. Students will also be using Internet resources to acquire new language skills and cultural knowledge.

**PREREQUISITE:** Successful completion with a C or higher of Spanish II

**SPANISH IV \*** 1.0 credit  
The fourth year of Spanish focuses on allowing students to practically apply their language skills, using the foundation established in the first three years. The course focuses on interpersonal (speaking/writing) skills, presentational (speaking/writing), and interpretive skills (listening/reading). The course is conducted primarily in Spanish and students will expand their vocabulary, improve their conversational skills, and refine their pronunciation. Through the study of various themes, students will discuss aspects of history and culture of several Spanish-speaking countries. *Juniors who take Spanish IV are highly encouraged to take AP Spanish during their Senior year.*

**PREREQUISITE:** Successful completion with C or higher of Spanish III or Spanish for Heritage Speakers

**SPANISH FOR HERITAGE SPEAKERS \* 1.0 credit**  
Heritage Speakers is a program that has been developed for freshmen and sophomores who speak, read and/or write in Spanish at home. The course is designed on a rotating two- year curriculum so a student can enter either phase of the program their first or second year of high school. Taking Heritage Speakers for two years meets Pius XI's two year World Language requirement. The purpose of this course is to strengthen and develop a student's language skills as a heritage speaker of Spanish. The course explores literature, vocabulary and grammar by way of thematic units focusing on specific countries and cultures throughout the Spanish speaking world, including Latinos in the United States. By taking this course, students will reinforce their reading comprehension, grammar, composition and presentational speaking skills.

**PREREQUISITE:** Native or near-native ability in spoken Spanish

**AP SPANISH LANGUAGE 1.0 credit**  
Spanish language study culminates with Advanced Placement Spanish. This course is designed to emphasize the use of Spanish for active communication. As it is instructed entirely in Spanish, the goal is to perfect the student's aural/oral skills, reading comprehension, grammar and composition in preparation for the AP Spanish Language Exam. Students will develop an active vocabulary adequate for reading current news articles, magazines, contemporary literature and other daily authentic source materials in the target language without dependence on a dictionary. The course develops the students' ability to express themselves with reasonable fluency in various situations and contexts.

**PREREQUISITES:** Successful completion of Spanish IV with a B or better or consent of instructor. Students must demonstrate proficiency at an adequate level to enroll.

*In order to have a successful, complete experience in this AP course, students must complete the AP Spanish Language Exam. If a student does not complete the AP Spanish Language Exam they will not receive a weighted grade.*

# SUPPLEMENTARY OFFERINGS

**ACT PREP** .25 credit  
This required course is designed to assist students in more thoroughly preparing their college and career readiness skills as measured by the ACT. The course begins with a pre-assessment designed to measure student readiness in each area tested on the ACT (Reading, English, Math, Science Reasoning) followed by lessons and quizzes designed to enhance student preparedness. The course includes all students participating in the completion of a full length ACT examination simulation.

**PREREQUISITE:** Sophomore standing

**AP STATISTICS** 1.0 credit

AP Statistics introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Reference. AP Statistics is an **elective** course and does **not** replace any math course in the graduation requirements. This course may be taken alone or concurrently with Pre-Calculus or AP Calculus.

**PREREQUISITE:** Grade of B or better in Algebra 2, Algebra and Trigonometry or Honors Math 3 and/or recommendation of your current math teacher.

**Students will need a TI-84+ Graphing Calculator.**

*In order to have a successful, complete experience in this AP course, students must complete the AP Statistics Exam. If a student does not complete the AP Statistics Exam they will not receive a weighted grade.*

**INTRODUCTION TO ACCOUNTING** 0.5 credit  
A course intended for all students - for those intending to explore the field as a career, for those going into other occupations in the business world, and for those who want to learn record-keeping for personal use. Accounting is a life skill. It teaches students to think critically and systematically organize, maintain, and interpret financial records. This course provides an understanding of basic elements and concepts of double-entry accounting systems. Students will learn the accounting equation, the use of "T" accounts, how to

journalize transactions into general and subsidiary ledgers, how to prepare financial statements, and do end of fiscal period work.

**APPLIED BUSINESS STRATEGIES** 0.5 credit  
In this one-semester course students will explore the world of business through problem-based learning. Students will learn the skills and terminology that will help them in the field of business in the future. Some of the areas that students will study are promotion, distribution, and production of products, as well as cost benefit analysis used in comparing business decisions. This course is a general elective and does not count toward Social Sciences requirements.

**PREREQUISITES:** Junior or Senior standing

**MARINE ECOLOGY: THE KEY LARGO EXPERIENCE** 0.25 credit/ 1 time  
The experience culminates in a six day field experience to Marine Lab in Key Largo, Florida. This is an academic underwater experience in which you examine various tropical ecosystems. Research is conducted while snorkeling or scuba diving. Students will complete laboratory work following each excursion.

**PREREQUISITE:** An application for the course is required. Cost is approximately \$1400 (snorkeling) or \$ 1550 (scuba diving). Students who complete SCUBA requirements and The Key Largo Experience are able to each earn 0 .25 elective credits for each of those experiences. [A total of 0.5 elective credits possible to be earned one time only].

**PRE-ALGEBRA** 1.0 credit  
Pre-Algebra is designed to help students become familiar with the language and notation of mathematics. In this course students will strengthen their ability to apply arithmetic so that they will be more successful in their study of Algebra and Geometry. Students will use a variety of methods to increase their understanding, including in-class activities, computer programs and manipulatives. Students will need a scientific calculator.

**SCUBA DIVING** 0.25 credit/ 1 time  
This is a one semester, co-ed course in which you can earn your PADI Open Water Certification. This class will be scheduled outside of the school day and will be comprised of three parts. Classroom work for 3 hours on 2-nights (after school). Confined-water (pool) sessions consisting of nine hours scheduled in the evening or on the weekend Finally,

open water sessions consisting of two half days (scheduled on a weekend in late spring) at a local lake or a local quarry.

Students are required to pass a written final exam to earn certification. If students would like to travel during Christmas break, Spring Break, or Key Largo with the school, they may complete the classroom work and confined-water pool sessions and then are required to complete their open water checkout dives while on that particular trip.

**PREREQUISITES:** Mask, fins and snorkel (by the beginning of pool sessions); Consent of the instructor, and an additional course fee \$350.

#### **SPECIAL PROJECTS** 0.5-1.0 credit

Students may enroll in special Projects course if they are interested in going beyond the scope of courses offered in a department to focus on a particular topic. It is not offered at the freshmen level. This course is not designed as a make-up course for a student who as failed a previous class. Please note that note all academic departments offer Special Projects. The curriculum of a Special Project course is designed by the teacher and the student and is typically given 0.5 credit for the semester or 1.0 credit for the year. A Special Projects Contract must be completed by each student supervising teacher. Students get these contracts from their teacher and return the contract with the Course Selection Form or Change of Schedule Card.

**PREREQUISITE:** Application/ Contract completion prior to registration for the class.

#### **PIUS NEWSPAPER (SCOPE) STAFF** 0.25-0.5 credits

This year-long course is a production course designed for students who wish to put into practice their skill of writing, editing, desktop publishing, layout and newspaper management for the Pius XI awarded-winning student newspaper, SCOPE,. Its aim is excellence and timeliness in writing. Currently, there are seven issues per year, with news, editorials, sports, cartoons, photography, and other features. Juniors and Seniors who serve as publication editors receive 0.5 credit.

**PREREQUISITE:** Consent of instructor

#### **PIUS XI YEARBOOK STAFF** 0.25-0.5 credit

This program is designed for students who are creative, responsible and organized and who can apply the principles of copy writing, editing, layout and photography to the production of the year book. Computer skill swill be developed through the use of desktop publishing. Other activities include public relations, budgeting, photography and scheduling activities. Juniors and Seniors who serve as publication editors receive 0.5 credit.

**PREREQUISITE:** Consent of instructor

#### **WRITING CENTER TUTOR COURSE** 0.5 credit

As a Pius XI writing tutor, students work with writers through any stage of the writing process on all forms of writing. Writing tutors engage in discussion that revolves around the formation of ideas and the structure of writing. Throughout this course, students not only help others to become better writers, but also, in turn, become better writers themselves. Writing tutors allocate 10 mods per cycle in their schedule for the

#### **WRITING TUTOR PROGRAM** .5 credits/ sem

Juniors and seniors who serve as Pius XI writing tutors receive 0.5 credit per semester

**PREREQUISITE:** Completion of the writing tutor training before 1st year as a writing tutor; Junior or Senior standing course during the summer

## **SUPPORTING CURRICULAR DOCUMENTS**

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# EARNING COLLEGE CREDIT WHILE AT PIUS XI

## Project Lead the Way (PLTW)

PLTW believes all students need access to real-world, applied learning experiences that empower them to gain the skills they need to thrive in college, career, and beyond. That's why our pathways in engineering and biomedical science provide hands-on learning opportunities. PLTW's research-supported approach empowers students to discover and explore interests, imagine and design solutions to real-world challenges, and become independent, confident problem solvers. (PLTW website)

College Credit earned by taking a comprehensive test at the end of the school year.

By earning a 6 or higher (out of 9) on the Project Lead the Way End of Course Assessment, students are eligible to purchase a transcript from either MSOE or the University of Iowa.

By earning a 7 or higher on the End of Course Assessment, and a B or better, in the Project Lead the Way course (IED, POE, DE, CEA, PBS) students are eligible for 3 quarter transcribed credits through MSOE. A 9 corresponds to an A, an 8 to a B, and a 7 to a C.

By earning a 6 or higher on the End of Course Assessment in the Project Lead the Way course (IED, POE, DE, CEA), students are eligible for 3 transcribed credits through the University of Iowa.

By earning a 6 or higher on the End of Course Assessment in the Project Lead the Way course (PBS, HBS), students are eligible for 1 transcribed credit through the University of Iowa.

These credits have the possibility of being transferred to other colleges in the form of elective or transfer credits. Every school is different so please check with specific schools about how these credits will be counted and accepted.

## Concurrent Enrollment Program

Pius XI Catholic High School and Cardinal Stritch University have partnered to create a Concurrent Enrollment Program (CEP). This program allows qualified high school students to learn Stritch's college curriculum and qualified high school instructors to teach Stritch's curriculum at the high school's campus during the high school's regular hours while concurrently earning high school and college credit. Qualified Pius XI students who choose to enroll in CEP from Cardinal Stritch University and pay the substantially reduced tuition rate for the college credit are admitted to the University as "non-degree seeking students." Upon successful completion of the course, these students will receive high school credits as well as college credits and an official Cardinal Stritch University transcript. The official University transcript verifies to other colleges/universities that the student has received college/university credits.

## Advanced Placement (AP) Program

Are you ready for a unique learning experience that will help you succeed in college? Each year, students around the world who want to learn and achieve at the highest possible level in high school become Advanced Placement (AP) students. The AP Program is supported by the College Board, a not-for-profit membership association, whose mission is to connect high school students to college success and opportunity. AP courses, taught at a college level, offer a rigorous and rewarding challenge for high school students. Through AP's college-level courses and exams, students can earn college credit and advanced placement, and stand out in the admissions process. According to the College Board, completion of an AP class during high school correlates directly to success and

persistence in college. To register for an AP course, students must meet certain criteria as specified by the academic department. These might include prerequisites and/or an application process, which would be indicated in the course descriptions.

At Pius XI, we offer a wide range of Advanced Placement (AP) courses:

Art	AP Studio Art Portfolio Preparation, AP Studio Art -I I, AP Studio Art-12
English	AP English Literature and Composition
Mathematics	AP Calculus AB, AP Statistics
Performing Arts	AP Music Theory
Science	AP Biology, AP Physics I, AP Environmental Science
Social Science	AP Macroeconomics, AP Psychology, AP US History, AP European History,
World Languages	AP Spanish Language

Semester grades that students receive in their AP courses are weighted. This means an “A” is figured into a student’s grade point average as five points rather than four, etc. Any grade lower than a “C” is not weighted. Pius XI recognizes and will accept AP credit from other accredited sources. Following our policy, AP courses taken outside Pius XI will not be averaged into a student’s GPA as a weighted grade.

In order to have a successful, complete experience in an AP course, students must take the AP exam for that course in May. If a student does not take the AP test in May, the student does not receive a weighted grade. Advanced Placement courses are one way for a student to earn dual credit in high school. Dual-credit courses allow a student to earn credit for high school, as well as credit for college. There are several other ways to earn dual credit at Pius XI: through the Engineering Program (Project Lead the Way) and through concurrent college courses currently being offered in the Theology and Social Science Departments. See each department’s information for more details.

## Planning Required and Elective Courses

To learn the specific graduation requirements for any academic department, please take a look at the department’s entry in this guide. For instance, in order to graduate from Pius XI, a student must take three credits of Science, but Biology must be one of those credits.

GRADUATION REQUIREMENTS	
English	4.0 credits
Theology	4.0 credits
Mathematics	3.0 credits
Science	3.0 credits
Social Science	3.0 credits
World Language	2.0 credits
Fitness and Wellness	1.5 credits
Including Health	0.5 credits
Arts	1.0 credit
Electives	3.0 credits
Total	25.0 credits

## College Requirements

Some colleges may require coursework in such areas as World Languages, Art or Performing Arts. Please consult with the Counseling Center about requirements for specific colleges. If you have a strong interest in a particular department, be sure to speak to the department chairperson for information about specialized colleges.

Some UW campuses and other universities and colleges require at least two years (sometimes three) of a foreign language for admission. To be competitive in applying to these schools, many students take three or four years of a foreign language. Many colleges and universities have foreign language exit requirements, which can be satisfied by taking four years of a foreign language in high school.

## Important Information for Incoming Freshmen

If you want to concentrate on a particular area of study, it's best to talk to the department chairperson to plan for your complete four years of study. It's wise to take a variety of courses and to explore some unfamiliar areas.

Trying to "get required courses out of the way" in the first year or two may not be the most appropriate choice for you. Students should take courses when it's most beneficial for them.

For example, a student who really wants to take four years of Art, Performing Arts, Engineering or World Languages might need to wait until sophomore year to take Health or Social Sciences. The Social Science Department offers many fine elective courses junior and senior years.

Then again, if a student's passion is Social Sciences, the student may want to fit it in freshman year. It comes down to deciding what the student really wants and then planning all four years carefully.

If students are enrolled in Reading Strategies, they should wait until sophomore year to take a course in World Languages.

For students rising freshmen and transfer students a placement test for reading, math and world language may be required to place the student appropriately.

## Specific Department Questions

If you have specific questions in regards to the requirements, consents or courses for a specific department, please reach out to the Department Chairpersons below.

DEPARTMENT CHAIRPERSONS			
ART & DESIGN	CATHY BURNETT	<a href="mailto:CBURNETT@PIUSXI.ORG">CBURNETT@PIUSXI.ORG</a>	414-290-8184
AVID	KARA ROGATZKI	<a href="mailto:KROGATZKI@PIUSXI.ORG">KROGATZKI@PIUSXI.ORG</a>	414-290-8193
COUNSELING	TIM DOHERTY	<a href="mailto:TDOHERTY@PIUSXI.ORG">TDOHERTY@PIUSXI.ORG</a>	414-290-8143
ENGINEERING/SCIENCE	CATHY ZURAWSKI	<a href="mailto:CZURAWSKI@PIUSXI.ORG">CZURAWSKI@PIUSXI.ORG</a>	414-290-7411 X 556
ENGLISH	RENEE COLLINS	<a href="mailto:RLINDSEY@PIUSXI.ORG">RLINDSEY@PIUSXI.ORG</a>	414-290-7411 X 553
FITNESS AND WELLNESS	DAVE SCHER	<a href="mailto:DSCHER@PIUSXI.ORG">DSCHER@PIUSXI.ORG</a>	414-290-8150
MATHEMATICS	MARY ELDREDGE	<a href="mailto:MELDREDGE@PIUSXI.ORG">MELDREDGE@PIUSXI.ORG</a>	414-290-7411 X 190
PERFORMING ARTS	KRISTIN HERLACHE	<a href="mailto:KHERLACHE@PIUSXI.ORG">KHERLACHE@PIUSXI.ORG</a>	414-290-7411 X121
SOCIAL SCIENCE	ROGER RADKE	<a href="mailto:RRADKE@PIUSXI.ORG">RRADKE@PIUSXI.ORG</a>	414-290-7411 X 582
SPECIAL STUDIES	ANNE FINDLAY	<a href="mailto:AFINDLAY@PIUSXI.ORG">AFINDLAY@PIUSXI.ORG</a>	414-290-8173
THEOLOGY	RON KUENSTLER	<a href="mailto:RKUENSTLER@PIUSXI.ORG">RKUENSTLER@PIUSXI.ORG</a>	414-290-7411 X 505
WORLD LANGUAGE	PHILLIP LOSEY	<a href="mailto:PLOSEY@PIUSXI.ORG">PLOSEY@PIUSXI.ORG</a>	414-290-7411 X 529



## Summer School Courses

### **AP ART PORTFOLIO CLASS- REQUIRED FOR ALL STUDENTS TAKING ALL LEVELS OF ART PORTFOLIO CLASSES- Summer only**

The expectation for students registered for AP Studio I I, I2, or Portfolio, is that they attend the one week summer class that runs June 1, 4 - 7 from 9 to 5. This 5 day intensive informs and launches the work for the following year for AP students. Underclassmen that are interested in being better prepared for AP are invited to take the class starting after art fundamentals. Please see Cathy Burnett in room 610 for forms and details.

### **WRITING TUTOR TRAINING (0.5 credit) Summer Only- SUPPLEMENTARY OFFERINGS**

This is a required course for students, before their junior or senior year, who have been accepted into the Writing Tutor Program. In this class, students read and analyze texts to understand the foundation and pedagogy behind being a writing tutor. After understanding the foundation, students work with all types of writing to understand how the process varies with each genre of writing. Students visit college Writing Centers such as Marquette University and UW-Madison to talk with university writing tutors on their experiences and practice mock conferences. Students also tutor incoming freshmen students through the writing process to practice their tutoring skills. This course is primarily based upon collaboration, discussion, and reflection.

Course Dates: TBA Late July or Early August, Monday-Friday 8:00am-2:00pm

### **POETRY\* (0.5 credit) Summer only- ENGLISH (MINIMUM OF 4 STUDENTS ENROLLED TO RUN THE CLASS)**

From Dylan Thomas to Bob Dylan, in this summer course, the notion that poetry is difficult to understand will be demystified. This course will provide students with a sophisticated approach to unlocking poetic language and literary theme, leading to an understanding of the relationship between meaning and poetic technique. Students will accomplish this by studying the great poems of the 20th Century, as well as great songs of the 20th Century. In this course, students will explore the following questions: What do great poems and great songs have in common? In what ways are they different? What happens when songs are read like poems? What happens when poems are put to music? The answers will provide students with an insight into the connections and disconnections that occur between the language of art and the language of pop culture.

Course Dates: June 4-21, Monday through Thursday, 8 a.m.–noon

### **CREATIVE WRITING (0.5 credits) Summer only- ENGLISH (MINIMUM OF 4 STUDENTS ENROLLED TO RUN THE CLASS)**

This summer course is designed for students who enjoy creative writing and are eager to have their poems, stories and dramatic scripts critiqued by their peers and their instructor. Students will experiment with multiple writing and presentation styles, and work to develop an authentic and engaging voice. There will be three units, one for each week of the course.

The first will be the ten-minute play. We will study two plays William Saroyan's Hello Out There and Edward Albee's The Sandbox. In our dramatic unit we will explore the power of first impressions, the insistence on major characters in flux, and how to use minor characters effectively. We will work on creating tone through diction and imagery. In addition we will study the importance of both oral and visual rhythm. The major emphasis throughout the entire summer will be on revision and peer review in all three genres.

The second week we will study the short story through Grace Paley's Wants and Denis Johnson's Car Crash While Hitchhiking. In our short story unit we will develop reliable and unreliable narrators, create unique and specific settings, and work on cohesive plot and character development.

The last unit will center on a study of Imagism through a variety of 20th century poets.

Course dates: June 4-21, Monday through Thursday, 12-4pm

TOPICS IN LITERATURE (.5 credit) Summer only – ENGLISH (MINIMUM OF 4 STUDENTS ENROLLED TO RUN THE CLASS)

Topics in Literature is a literature course designed for students who need to strengthen their ability to analyze and interpret literature. Students will read works that will prepare them for a college education. Student will be required to write about the literature with emphasis on the IEE FORMAT.

Course Dates: June 25-June 29, July 2-3, July 9-18, 8 a.m.–noon

\* denotes pathway to AP

INTRODUCTION TO COMPUTER SCIENCE - Summer only- ENGINEERING

Students work in teams to develop computational thinking and solve problems. The course covers the College Board's new CS Principles framework. It does not aim to teach mastery of a single programming language but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. The course also aims to build students' awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. The course also aims to engage students to consider issues raised by the present and future societal impact of computing.

Course Dates: July class TBA, Monday through Thursday, 8 a.m.–noon