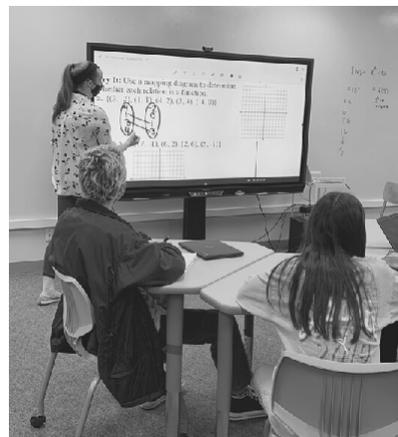


2023-24 CURRICULUM GUIDE





CURRICULUM GUIDE

2023-2024

SCHOOL YEAR

PIUS XI CATHOLIC HIGH SCHOOL MISSION

Pius XI Catholic High School exists to prepare a diverse community of students to achieve their unique and highest potential. Guided by our Franciscan values of dignity, peace, and respect, we nurture students to excel academically, develop moral courage, and live lives of faith and service.

CURRICULUM POLICIES

GRADUATION REQUIREMENTS

English	4.0 credits	Total Credits
Theology	4.0 credits	
Mathematics	3.0 credits	
Science	3.0 credits	
Social Studies	3.0 credits	
Fitness	1.5 credits	
Health (Wellness)	0.5 credits	
Fine Arts	1.0 credit	
World Language	2.0 credits	
Electives	3.0 credits	
Campus Ministry		Class of 2024 25.5 credits
Class of 2024	0.5 credits	Class of 2025 26.0 credits
Class of 2025	1.0 credits	Class of 2026 26.5 credits
Class of 2026	1.5 credits	Class of 2027 27.0 credits
Class of 2027	2.0 credits	

CAMPUS MINISTRY GRADUATION REQUIREMENT

Pius XI is adding a new graduation requirement beginning with the 2022-2023 school year. It will fall under the direction of Campus Ministry. Students are required to earn .5 credits during each year at Pius XI. Credits are earned by participating in the school's retreat and service programs. We will phase in these requirements. Graduation requirements for each class are:

Class of 2024	1.0 credits
Class of 2025	1.5 credits
Class of 2026 and beyond	2.0 credits

IMPORTANT INFORMATION FOR INCOMING FRESHMEN

If you want to concentrate on a particular area of study, it is best to talk to the department chairperson to plan for your complete four years of study. It is 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 is 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. For rising freshmen and transfer students a placement test for reading, math and world language may be required to place the student appropriately.

EARNING COLLEGE CREDIT WHILE AT PIUS XI

PROJECT LEAD THE WAY (PLTW)

The PLTW program 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 is why our pathways in engineering, biomedical science, and computer 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.

Colleges and universities across the U.S. recognize and reward PLTW students for their great work. These postsecondary institutions recognize PLTW students with scholarships, admissions preference, course credit, and more. Students will take the new End of Course Assessment at the end of the school year and will receive a detailed score report that highlights their subject-matter knowledge and mastery of in-demand, transportable skills.

Students can use their test results to bolster college applications or resumes or can send their score report directly to higher education institutions and employers, who may use it for admissions, scholarships, dual credit opportunities, campus experiences, internships, apprenticeships, industry certifications, and more.

For the most up to date information on how each PLTW course will be beneficial at various colleges and universities, see the following website: <https://www.pltw.org/experience-pltw/student-opportunities>

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 College Board, a not-for-profit membership association, whose mission is to connect high school students to college success and opportunity, supports the AP Program. 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 -11, AP Studio Art-12
English	AP English Literature and Composition, AP English Language and Composition
Mathematics	AP Calculus AB, BC, AP Statistics. AP Pre-Calculus and Trigonometry
Performing Arts	AP Music Theory
Science	AP Biology, AP Physics I, AP Environmental Science, AP/PLTW Computer Science Principles
Social Science	AP Macroeconomics, AP Psychology, AP US History
World Languages	AP Spanish Language, AP French

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. 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 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.

COLLEGE REQUIREMENTS

Some colleges may require coursework in such areas as World Languages, Visual 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 world language for admission. To be competitive in applying to these schools, many students take three or four years of a world language. Many colleges and universities have world language exit requirements, which can be satisfied by taking four years of a world language in high school.

SPECIFIC DEPARTMENT QUESTIONS

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

DIVISION CHAIRPERSONS

FINE ARTS	CATHY BURNETT	CBURNETT@PIUSXI.ORG	414-290-8184
COUNSELING	LAKENDRA BROWN	LBROWN@PIUSXI.ORG	414-290-8216
STEM/FITNESS	CATHY ZURAWSKI	CZURAWSKI@PIUSXI.ORG	414-290-7411 ext 556
ENGLISH/WORLD LANGUAGE/SPECIAL STUDIES	MICHELE GRIFFIN	MGRIFIN@PIUSXI.ORG	
SOCIAL SCIENCE/THEOLOGY	MANDY RUSZKIEWICZ	ARUSZKIEWICZ@PIUSXI.ORG	

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 11, 12, or Portfolio, is that they attend the one-week summer class that runs June 7, 8, 9, 12, 13 from 9 am to 5 pm. This 5-day intensive class informs and launches the work for the following year for AP students.

Underclassmen who are interested in being better prepared for AP are invited to take the class after taking Art Fundamentals. Please see Cathy Burnett in room 610 for forms and details.

COURSE INFORMATION

ART & DESIGN

The nationally recognized Pius XI Visual Art Program is designed to be taken all four years. The scope and sequence of our curriculum develops strong technical and conceptual thinking skills while focusing 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. Visual art careers include, but are not limited to, digital arts, architecture, animation, , graphic design, game design, web design, fashion design, industrial design, transportation design, product design, interior design, package design, toy design, fashion, 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	801 - Art Fundamentals	1-2-3-4	Pathway to AP	11
0.5	831 - Ceramics	2-3-4		11
0.5	811 - Design: Introduction to Photoshop and Adobe Illustrator	2-3-4	Pathway to AP	11
0.5	821 - Figure Drawing	2-3-4	Pathway to AP	11
0.5	817 - Experimental Drawing	3-4	Pathway to AP	12
0.5	819 - Fibers, Fashion Construction & Design	3-4	Pathway to AP	12
0.5	841 - Painting	3-4	Pathway to AP	12
0.5	805 - Photography 1	3-4	Pathway to AP	12
0.5	806 - Photography 2: New Genres/Alt. Processes	3-4		12
0.5	832 - 3D Sculptural Forms and Architecture	2-3-4	Pathway to AP	12
1.0	843 - AP Studio Art 11	3	Pathway to AP	12
1.0	845 - AP Art Portfolio Preparation	4		13
1.0	844 - AP Studio 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	641 - PLTW: Introduction to Engineering and Design (IED)	1-2-3-4	College credit available	17
1.0	642 - PLTW: Principles of Engineering (POE)	2-3-4	College credit available	17
1.0	643 - PLTW: AP Computer Science Principles (CSP)	3-4	College credit available Offered 2024-25	17
1.0	644 - PLTW: Civil Engineering and Architecture (CEA)	3-4	College credit available Offered 2023-2024	17
0.5	650 - Rube Goldberg Machine Design	2-3-4		18
0.5	635 - Computer Science Discoveries	1-2-3-4		18

ENGLISH

Pius XI's English curriculum is designed to not only hone students' analysis and writing abilities, but also emphasizes diverse perspectives in literature and those problem-solving and social skills critical for success in today's changing, global society. Pius XI students are required to successfully complete at least four credits of English prior to graduation.

Credits	Courses	Year	Comments	Page
1.0	105 - Foundations in Composition and Literature	1		18
1.0	104 - Accelerated Foundations in Composition and Literature	1	Offered to Freshmen in 85 th percentile on English Entrance Exam	18
0.5	180 - The Mythology of British Literature	2		18
0.5	181 - Genres of Writing	2		18
0.5	172 - Research & Presentation Skills	3-4		18
0.5	171 - Contemporary Literature	3-4	Pathway to AP	19
0.5	145 - 20 th Century Literature and Theory	3-4	Pathway to AP	19
0.5	173 - Creative Writing	3-4		19
0.5	163 - Women's Voices in Literature	3-4	Offered 2023 - 2024	19
0.5	LIT TOP - Literature Topics (Summer offering)	2-3-4	Applications and acceptance into the program is required.	19
0.5	141 - World Literature	3-4	Offered 2024 - 2025	
0.5	175 - Black Writers and Artists	4		19
1.0	150 - AP English Language and Composition	3-4	Application required	19
1.0	155 - AP English Literature and Composition	4	Application required	20
0.25 - 0.5	253 - Pius XI Yearbook	1-2-3-4	Instructor approval and Application Required	20
0.5/ SEM	WR TUT - Writing Center Tutor Program	3-4	Must complete summer Writing Tutor course	20
0.5	Writing Tutor Summer Training Program	3-4		20

FITNESS AND WELLNESS

The Fitness & Wellness Program is designed to be taken for four years. Although state law requires only 1.5 credits of Physical Education and 0.5 credits of Health, we recommend that students view 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	085 - Freshman Co-ed Physical Education	1	Grad requirement	20
0.5	084 - Contemporary Health Topics	1-2-3	Grad requirement; see description for requirements for Juniors to take class	21
0.5	086 - Sophomore Co-ed Physical Education	2	Grad requirement	21
0.5	090 - Racket Up	2-3-4		21
0.5	091 - Competitive Team Activities	2-3-4		21
0.5	092 - Bodies in Motion	2-3-4		21
0.5 / 1.0	095 / 096 - Female Body Sculpting	2-3-4	Semester / Year Course	21
0.5 / 1.0	093 / 094 - Body Development	2-3-4	Semester / Year Course	21
0.5	089 – Sports Medicine	3-4	Offered 2024-25	
0.5	087 - Sports Officiating	3-4	Offered 2023-24	21

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	313 - Algebra 1	1	Grad Requirement	22
1.0	311 - Accelerated Algebra 1	1	Grad Requirement Pathway to AP	22
1.0	323 - Geometry	2-3-4	Grad Requirement	22
1.0	321 - Accelerated Geometry	1-2-3	Grad Requirement Pathway to AP	22
1.0	332 - Algebra 2 and Trigonometry	3-4		22
1.0	343 – AP Pre-Calculus and Trigonometry	2-3-4	Pathway to AP	22
1.0	341 - AP Calculus AB	3-4		22
1.0	340 - AP Calculus BC	4		23
1.0	350 - AP Statistics	3-4		23
1.0	344 - Integrated Math Applications	4		23

PERFORMING ARTS

The Performing Arts Program prepares 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.

Credits	Courses	Year	Comments	Page
CHORAL MUSIC				
1.0	852 - Pius XI Choir	1-2-3-4		14
1.0	854 - Concert Choir	3-4	By Audition; Freshmen with director's discretion	14
0.5	856 - Vocal Jazz Ensemble	3-4	By Audition; Freshmen with director's discretion	14
0.5	855 - Madrigal Ensemble	3-4	By Audition; Freshmen with director's discretion	15
INSTRUMENTAL MUSIC				
1.0	861 - Beginning Band	1-2-3-4		15
1.0	863 - Percussion Ensemble	1-2-3-4		15
1.0	862 - Symphonic Band	1-2-3-4	Instructor consent	15
1.0	868 - Beginning Strings	1-2-3-4		15
1.0	866 - Intermediate Strings	1-2-3-4	Instructor consent or audition	15
1.0	869 - String Orchestra	1-2-3-4		15
1.0	864 - Beginning Guitar	1-2-3-4	Instructor consent or audition	15
1.0	865 - Intermediate Guitar	1-2-3-4	Instructor consent: Freshmen with instructor's consent	16
1.0	860.5 - Beginning Piano	1-2-3-4		16
1.0	860 - Intermediate Piano	1-2-3-4		16
1.0	867 - AP Music Theory	3-4	Offered 2023-24	16

PERFORMING ARTS (cont.)				
Credits	Courses	Year	Comments	Page
DANCE (Can count for Fitness & Wellness or Fine Arts credits)				
0.5	751.05 - Beginning Dance	1-2-3-4		13
1.0	751 - Dance 1	1-2-3-4		13
1.0	752 - Dance 2	1-2-3-4	By audition	14
1.0	753 - Dance 3	1-2-3-4	By audition	14
1.0	751 - Dance 4	1-2-3-4	By audition	14
1.0	755 - Dance 5	1-2-3-4	By audition	14
THEATER				
0.5	790 - Basic Improvisation	1-2-3-4		16
0.5	791 - Advanced Improvisation	2-3-4		16
0.5	780 - Acting 1	1-2-3-4		16
0.5	782 - Acting 2	2-3-4		16
0.5	783 - Acting 3/4	2-3-4		17
0.5	778 - Technical Theater Fundamentals	1-2-3-4		17
0.5	777 - Stagecraft/Set Design	2-3-4		17

SCIENCE

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.

Credits	Courses	Year	Comments	Page
1.0	362 - Physical Science	1-2-3-4		23
1.0	373 - Biology	1-2	Pathway to AP/ Grad Requirement	23
1.0	376 - AP Biology	3-4		23
1.0	381 - Chemistry	2-3-4	Pathway to AP	24
1.0	392 - Physics	2-3-4	Pathway to AP	24
1.0	391 - AP Physics	3-4		24
1.0	369 - PLTW: Principles of Biomedical Science	1-2-3-4	College credit available	24
1.0	371 - PLTW: Medical Interventions	3-4	College credit available	24
1.0	370 - PLTW: Human Body Systems	2-3-4	College credit available	24
1.0	BIOSLR - Students Understanding Principles of Research Education through Medicine, Engineering and Science (SUPREMES)	3-4	Application required	24
0.5	365 - Biological Laboratory Investigations in Forensic Science	2-3-4	Rotates with POPE/Physical Forensic. Offered 2023-24	24
0.5	367 - Physical Science Laboratory Investigations in Forensics	2-3-4	Rotates with POPE/ Biological Forensic Sci. Offered 2023-24	25
0.5	364 – Processes of Planet Earth (POPE)	2-3-4	Rotates with Biological Forensic Sci. / Physical Forensic. Offered 2024-2025	25
1.0	366 - AP Environmental Science	3-4		25

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	401- Introduction to Social Science	1		25
1.0	411 - World History	1-2		25
0.5	415 - Diversity and Human Rights	3-4		25
0.5	421 - Foundations of American Government	2	Fulfills Government Grad Requirement	25
0.5	420 - Honors American Government	2	Recommended for AP US History; fulfills Government Grad. Requirement	25
0.5	461 - Economics	2-3-4	Fulfills Economics Grad. Requirement	25
1.0	460 - AP Macro Economics: Principles of Macroeconomics	2-3-4	Fulfills Economics Grad. Requirement	25
0.5	456 - Introduction to Psychology	3-4		25
1.0	455 - AP Psychology	3-4	Application required	25
1.0	434 - AP US History	3-4	Completion of Honors Am. Gov. or Instructor consent	25
0.5	465 - Sociology	3-4		26
1.0	431XI - US History: 1800- Present	3	Completion of Am. Gov.	26
0.5	851 - The Context of Western Culture 1700 to Present – Art History	3-4	Social Science 0.5 credit	26

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
1.0	004 / 005 - Living Our Faith	1		27
1.0	001 / 002 - Hebrew/Christian Scripture	2		27
0.5	075 - Biblical Themes in Literature	3-4		27
0.5	031 - Christian Spirituality	3-4		27
0.5	041 - World Religions	3-4		27
0.5	065 - Justice and Liberation: Catholic Social Teaching	3-4		28
0.5	071 - Christian Discipleship and Leadership	4		28
0.5	051 - Morality and Ethics	3-4	Grad Requirement	28
0.5	006 - Church History	3-4		28

WORLD LANGUAGE

The World Languages Program is designed to be taken all four years for language proficiency. Some 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.

Credits	Courses	Year	Comments	Page
1.0	511 - French 1	1-2-3		28
1.0	512 - French II	1-2-3-4		28
1.0	513 - French III	1-2-3-4	Pathway to AP	28
1.0	514 - French IV	2-3-4		28
1.0	515 - AP French	4		29
1.0	521 - Spanish 1	1-2-3		29
1.0	522 - Spanish II	1-2-3-4		29
1.0	523 - Spanish III	1-2-3-4	Pathway to AP	29
1.0	524 - Spanish IV	2-3-4	Pathway to AP	29
1.0	527 - Spanish for Heritage Speakers	1-2-3	Pathway to AP	29
1.0	528 - Advanced Spanish for Heritage Speakers	3-4	Pathway to AP	29
1.0	525 - AP Spanish Language	4		29

COURSE DESCRIPTIONS

ART & DESIGN or PERFORMING ARTS

1.0 CREDIT REQUIRED FOR GRADUATION

1.0 Credit of Art & Design OR Performing Arts is required for Graduation.

801 - Art Fundamentals is a prerequisite for all courses besides 831 - Ceramics.

Dance Courses can count as Fitness & Wellness Credits OR Performing Arts Credits.

AP Courses are available to be taken upon meeting all requirements.

ART & DESIGN

801 - ART FUNDAMENTALS | 1.0 credit

Art Fundamentals is a yearlong foundation class and a prerequisite to the rest of our program. This class is the beginning of a student's artistic journey teaching them to see, to trust their eyes and hands and build confidence in their abilities. First semester a variety of strategies are taught through observational drawing. The second semester continues building upon skills gained in the first semester with the addition of color. We use drawing, painting and technology to create a finished painting by the end of the semester. Students are required to document their class work and homework assignments weekly. Required homework for class should take between 30 and 45 minutes per assignment.

831 - CERAMICS | 0.5 credit

In this one-semester course, students will work with clay, and learn hand-building techniques including coil and slab construction. Students will study the glaze-making process through a variety of techniques. By the end of the semester, students will have had a "hands-on" experience and gain a basic understanding of both sculptural and functional aspects of working with clay.

PREREQUISITE: Art Fundamentals or sophomore, junior or senior standing.

811 - DESIGN: INTRODUCTION TO PHOTOSHOP AND ADOBE ILLUSTRATOR | 0.5 credit

The focus of this one-semester course is to introduce students to industry-standard creative technologies, develop design-thinking abilities, sharpen creative problem-solving skills, and increase every student's technology literacy. Students will learn to employ the elements and principles of design to develop effective visual communication skills. Using a variety of media and techniques, including Adobe Photoshop and Illustrator, students will create visually compelling, conceptually sound, and informationally communicative designs that reflect their individual interests. Over the semester students gain the abilities to create strong, effective compositions and translate their ideas to physical materials through print, vinyl/laser cutting, and other media.

PREREQUISITE: 801 - Art Fundamentals

821 - FIGURE DRAWING | 0.5 credit

The human figure is one of the most dynamic subject matters in the history of art. It is a universal form, which we all use to interact with the world around us. Artists have always used the figure for its expressive nature and its ability to communicate, thoughts, feelings, and ideas.

Students are taught step by step the balance of speed and accuracy through careful observation of gesture, structure, and form. Students will explore the figure with a variety of media working directly from one another as a model.

This course is a logical step after Art Fundamentals, and is a prerequisite for Painting and Experimental Drawing.

PREREQUISITE: 801 - Art Fundamentals

817 - EXPERIMENTAL DRAWING | 0.5 credit

Drawing is a universal language. Experimentation is a process rooted in play and the exploration of the unknown. In this context, Experimental Drawing is designed to help students become re-acquainted with the joy, excitement and potential of mark making and the image making process as a way to communicate ideas. In this one-semester course, students will learn to coordinate their hands and eyes to explore and depict ideas and subjects that they are interested in. Students will develop an individualized repertoire of skills and techniques using both traditional and non-traditional drawing tools and media to create art that is significant in a personal level.

PREREQUISITE: 801 - Art Fundamentals and 821 - Figure Drawing

819 - FIBERS, FASHION CONSTRUCTION AND DESIGN | 0.5 credit

Fashion often starts out as outrageous and impractical as seen on runways in Milan and Paris. The emphasis of this one semester course engages students in constructing wearable art and sculptural fashion pieces using alternative materials and construction methods. The processes may include assemblage of found objects, sewing, paper maché, and hand-built materials. Experimentation and discovery with unusual materials will drive our methods as we work to construct original fashion pieces. Technical and conceptual problem-solving skills will be developed in this class. This course is recommended for students interested in developing or adding to an AP 3D portfolio in fashion or sculpture.

PREREQUISITE: 801 - Art Fundamentals. Additionally recommended – 831 - Ceramics, 811 - Design or 821 - Figure Drawing

841 - PAINTING | 0.5 credit

In this one-semester, course students explore color as a driving force behind the evolution of their intuitive and technical abilities. Expanding upon their understanding of mixing, blending, and application, students will be guided through various painting strategies rooted in both historical art and contemporary practices. Students will work on a variety of sizes and surfaces using acrylic mediums. Interplay between realism and abstraction is the primary goal of the course with a particular emphasis on each student developing an individualized body of work that is personally relevant.

PREREQUISITE: 801 - Art Fundamentals and 821 - Figure Drawing

805 - PHOTOGRAPHY I | 0.5 credit

In this one semester course, students will learn to harness photography's ability to capture and reproduce light using both analog and digital technologies. Students will craft their own cameras; understand the physical mechanics and technology of 35mm film cameras begin to develop a critical eye when taking photographs, and combine digital and analog processes. In this course, students will begin to challenge the status quo of photography. In class, discussions and visual projects will generate thoughts and images that question what photographs are capable of, what their role in society has come to be, and how images will continue to shape our world. 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 is introduced as a tool for correcting and printing photographs. Students need to provide their own SLR 35mm film camera* and a digital camera (mobile phone, tablet, point-and-shoot, or DSLR).

*Some cameras may be available for use from the Visual Art Department

PREREQUISITE: 801 - Art Fundamentals and Junior or Senior standing.

806 - PHOTOGRAPHY 2 / NEW GENRES ALTERNATIVE PROCESSES | 0.5 credit

The emphasis of this one semester class rotates as a way to introduce multiple modes of thinking and practicing photography. New Genres focuses heavily on the digital and studio components of contemporary photography. Featuring projects like manipulated portraiture, digital photomontage, image-based installation, moving image animation, and more. Alternative Processes is geared towards experimental craft and historically antique processes like cyanotype, salt prints, anthotypes, lumen prints, camera less photography and more. Both sections share the goal of creating a body of work by interacting with digital and experimental media while introducing students to a research-driven practice. Students learn a range of approaches to photography and fabrication guided by their independent interest in the medium. 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 be able to use film cameras, mobile phone cameras, but a DSLR camera is preferred if available.

PREREQUISITE: 801 – Art Fundamentals and 805 – Photography I

832 - 3D SCULPTURAL FORMS AND ARCHITECTURE | 0.5 credit

Through idea building, experimentation and discovery students in this one semester course will build architectural models and sculptural forms. We will build using cut and folding methods and the laser cut materials to create and construct forms. Materials vary with each problem and the student's vision for a solution. Concepts covered include space, form, light, scale, movement, flow and structural integrity. This class is beneficial to students interested in architecture, set design, package design, environmental design, and sculpture. It is recommended for students interested in developing or adding to an AP 3D portfolio in any of those areas.

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

843 - AP STUDIO ART II (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 highly motivated junior level art student, who is ready to prepare a focused body of work for college admission and Advanced Placement credit. Concurrent enrollment in two of the junior level courses (Painting, Experimental Drawing, Photo 1, Fibers, Sculpture or Design) is strongly recommended. Students will create a 2-D design AP portfolio as they refine their technical skills and begin to work more conceptually by demonstrating sustained investigation through practice, experimentation and revision. The individualized body of work they create will prepare them to enter national competitions and compete for summer

scholarships to prestigious art colleges and universities. Attendance at MIAD'S Portfolio Day, College Presentation Days, and Pius XI Fine Arts Day 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). Also two of the following courses: Figure Drawing, Design, 3D Sculpture and Architecture. Summer Portfolio Prep class is strongly recommended for students enrolled in AP Studio 11. Forms will be available after registration.

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.

845 - AP ART PORTFOLIO PREPARATION | 1.0 credit

Portfolio is an individualized yearlong studio course designed for students to discover their visual voice through the continual refinement of their technical and conceptual skills. The emphasis is on completing a body of work in any medium, e.g. Drawing, Fashion, Architecture, Painting, Animation and Film, Photography, Sculpture, etc. The body of work students build will prepare them to enter national competitions, admission, and scholarships to prestigious art colleges and universities. The Context of Western Culture course is a critical component to success in this class and therefore, concurrent enrollment in AP Portfolio and Context of Western Culture is required. Attendance at MIAD's Portfolio Day, College Presentation Days, and Pius XI Fine Arts Days is mandatory. It is possible to earn between three and nine college credits by taking this course. **PREREQUISITES:** Consent of instructor; concurrent enrollment in Context of Western Culture, a Social Science .5 credit. Prerequisites also include at least three or more of the following courses: Figure Drawing, Design, Experimental Drawing, Painting, Photography, 3D Design, Fashion and Fibers, AP Studio 11. It is recommended that students have at least one art class per semester Freshman through Junior year. Summer Portfolio Prep class is strongly recommended for students enrolled in AP Portfolio. Forms will be available after registration. 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.

844 - AP STUDIO 12 | 1.0 credit

This course requires concurrent enrollment in AP Portfolio and is designed for the highly motivated senior who is preparing a focused body of work for college admission and AP credit with the potential to earn 6-9 college credits. Students will create an AP portfolio by demonstrating sustained investigation through practice, experimentation and revision. The individualized body of work they create will prepare them to enter national competitions and to compete for admission and scholarships to prestigious art colleges and universities.

Attendance at MIAD'S Portfolio Day, College Presentation Days, and Pius XI Fine Arts Day is mandatory. AP credits can be earned in Drawing and Painting, 2-D Design, Photography, and/or 3-D Design. Most students in Studio 12 complete a 3D portfolio through Fashion Design, Architectural Design, Sculpture, Installation- using video, photography or sculpture. The completed work from these prior classes lay the groundwork and direction for the AP 3D 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. Prerequisites preferred for Studio 12 include Photography, Fashion and Fibers, 3-D Sculpture, and Architectural Design and Ceramics.

PERFORMING ARTS

DANCE

751.05 - BEGINNING DANCE | 0.5 credit

Beginning Dance will encompass various forms of dance; incorporating ballet, jazz, 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 gain body and spatial awareness while ensuring muscle functionality. No previous dance experience is necessary. This is a one-semester course.

751 - DANCE I | 1.0 credit

Using a ballet-based approach, Dance 1 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.

752 - 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: Audition*

753 - 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: Audition*

754 - 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: Audition*

755 - 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: Audition*

CHORAL MUSIC

852 - PIUS XI CHOIR | 1.0 credit

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. The Pius 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.

854 - CONCERT CHOIR | 1.0 credit

This choir is an advanced ensemble of 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: Audition. Freshmen may enroll at the choir director's discretion.

856 - VOCAL JAZZ ENSEMBLE | 0.5 credit

This class is comprised of juniors and seniors who are selected by audition. This group rehearses as a vocal jazz ensemble and works on solo jazz singing using repertoire from the *Great American Songbook*. They participate in the Pius XI concert season and perform in community events and more. To be in this course students must be enrolled in a larger choral ensemble.

PREREQUISITE: Audition. Freshmen may enroll at the choir director's discretion.

855 - MADRIGALS ENSEMBLE | 0.5 credit

This chamber ensemble of select singers will concentrate on music written for smaller ensembles, from the Renaissance through contemporary choral music. The Madrigals perform frequently throughout the year and have regular performances in the community. To be in this course, students must also be enrolled in a larger choral ensemble.

PREREQUISITE: Audition. Freshman may enroll at the choir director's discretion.

INSTRUMENTAL MUSIC

861 - BEGINNING BAND | 1.0 Credit

Beginning Band is for any student interested in learning how to play one of the following band instruments: Flute, Oboe, Clarinet, Bassoon, Saxophone, French Horn, Trumpet, Trombone, Euphonium, or Tuba but without prior experience. This course develops performance and music reading skills in a supportive, enjoyable ensemble experience. No prior experience playing an instrument or reading music is required - we start at the very beginning and learn to read and play as we go. The Beginning Band will perform in concerts during the Pius XI instrumental concert season. Attendance at these performances is required as is daily practice at home.

863 - 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, as an ensemble, and as the percussion section of the Symphonic Band in concerts during the Pius XI instrumental concert season. All percussionists should sign up for Percussion Ensemble, as full band is part of the class experience.

862 - 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, and at the District and State Solo/Ensemble Festival. Attendance at the performances is required as is daily practice at home.

PREREQUISITE: Previous band experience or Instructor consent.

868 - BEGINNING STRINGS | 1.0 credit

This ensemble is for any student interested in learning how to play one of the following bowed 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 and classical. The Beginning Strings will perform in concerts during the Pius XI instrumental concert season. Attendance at these performances is required as is daily practice at home.

866 - INTERMEDIATE STRINGS | 1.0 credit

This ensemble is for any student with one year of experience playing an orchestral string instrument (Violin, Viola, Cello, or Double Bass). This course offers continuing instruction in fundamental technical skills and music reading in a supportive, enjoyable ensemble experience. Students will play in many styles of music including folk, classical, and contemporary, and will hone their ensemble skills. The Intermediate Strings will perform in concerts during the Pius XI instrumental concert season and at the district solo and ensemble festival. *PREREQUISITE: Audition and/or Instructor consent.*

869 - STRING ORCHESTRA | 1.0 credit

This ensemble is for any student with two or more years of 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, 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.

864 - BEGINNING GUITAR | 1.0 credit

Would you like to learn the guitar? This class will teach you the basics of the instrument, techniques to play chords and melodies, basic music theory and music reading. By the end of the course, students will have the ability to play songs and have the skills to learn songs on their own. Students will work in a group setting and have occasional individual lessons. Students must provide an acoustic or classical guitar in good working condition and have it in class each day. No electric guitars.

865 - INTERMEDIATE GUITAR | 1.0 credit

This is a class for intermediate guitarists who will extend their music reading and technique. Students will work to play independently, so as to work together to perform musical arrangements made specifically for groups of guitars. A required performance per semester may be scheduled as well as playing assessments. Students must provide an acoustic or classical guitar in good working condition and have it in class each day. Electric guitars are only allowed per consent of the instructor. **PREREQUISITE:** Beginning Guitar and/or consent of instructor. Freshmen may only enroll at the instructor's discretion.

860.5 - BEGINNING PIANO | 1.0 credit

This course is designed for any student interested in learning how to play Piano – no prior musical experience is necessary. Students will learn the fundamentals of piano technique as well as music theory in a combination of individualized and group instruction. A fun and supportive learning environment, this course is the perfect start for a student wanting to take a music class! If you are interested and do not own a Piano/Keyboard, please contact the instructor.

860 - INTERMEDIATE PIANO | 1.0 credit

Intermediate Piano is a level II class following Beginning Piano. Students will implement proper playing technique through the use of etudes, scales and repertoire. Students will also learn the correlation between repertoire and basic music theory such as melodies, harmonies, rhythm, form and textures. **PREREQUISITES:** Basic piano/keyboard skills, the ability to read sheet music, at least one year worth of piano classes (Beginning Piano) or lessons.

REQUISITE: Audition which includes solo, scales, etudes or consent of instructor.

867 - AP MUSIC THEORY (2023-24) 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 AP course for those students interested in continuing their music studies in college. The course is offered every other year.

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.*

THEATER

790 - 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.

791 - ADVANCED IMPROVISATION | 0.5 credit

In this course, students will continue the exploration of character and improv techniques. Emphasis will be placed on developing the skills acquired during Basic Improvisation and expanding on them. The course will culminate in the production of a "Harold" improvisation show. **PREREQUISITE:** Basic Improv

780 - ACTING I | 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. Hagen, Meisner, and Chekov techniques will be explored.

782 - 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 previous techniques (given circumstance, objective, action and obstacle, as well as new skills introduces. Students

will demonstrate their mastery in a final performance and talkback with an invited audience. Laban Movements, Thought exercise, and Stanislavski Techniques will be explored.

PREREQUISITE: Acting 1

783 - ACTING 3-4 | 0.5 credit

Acting 3/4 can be taken twice, once as Acting 3 and once as Acting 4. 3/4 is a rigorous, practical acting class. Students will explore deep emotional character development and connection skills as actors. Emphasis will be on emotional characterization with the application of previous techniques (given circumstance, objective, action and obstacle, Laban, as well as new skills introduced). Students will demonstrate their mastery in a final performance and talkback with an invited audience. The Masks, and additional Stanislavski Techniques will be explored.

PREREQUISITE: Acting 2 or teacher approval.

778 - TECHNICAL DESIGN IN THEATRE FUNDAMENTALS | 0.5 credit

This is an introductory course in the theory and practice of scenography for the theatre. The primary goal of this class is to provide access to terms, concepts, and design principle applications for theatrical scenery, costume, sound, and lighting design. The students will contribute to construction of sets for all shows. The students will learn how to safely and properly use various construction tools, both power tools and hand tools. Additional volunteer time outside of the normal class time may be requested of the student.

777 - STAGECRAFT/SET DESIGN 0.5 credit

This course takes an in-depth look at the techniques of creating scenographic design documents and models for the theatre. Technical documents of ground plans, sections, and elevations explored using CAD (Computer Assisted Design). Model making will be explored using both traditional and computer assisted methods. The students will contribute to construction of sets for all shows. The students will learn how to safely and properly use various construction tools, both power tools and hand tools. Additional volunteer time outside of the normal class time may be requested of the student.

PREREQUISITE: Technical Design in Theatre Fund.

ENGINEERING / PROJECT LEAD THE WAY

ELECTIVE COURSES

We recommend at least one Engineering & Technology course in your four years.

AP Courses are available to be taken upon meeting all requirements.

641 - PLTW: INTRODUCTION TO ENGINEERING AND DESIGN (IED) | 1.0 credit

This yearlong 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.

642 - 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. Satisfactory completion of 641 - IED.

644 - PLTW: CIVIL ENGINEERING AND ARCHITECTURE (CEA) | 1.0 credit (2023 - 2024)

This yearlong 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 641 - IED and 642 - POE.

643 - AP/PLTW COMPUTER SCIENCE PRINCIPLES (CSP) | 1.0 credit (2024-2025)

Using Python as a primary tool, students learn the fundamentals of coding, data processing, data security, and task automation, while learning to contribute to an inclusive, safe, and ethical computing culture. The course promotes computational thinking and coding fundamentals and introduces computational tools that foster creativity. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. *PREREQUISITE: Satisfactory completion of IED and POE.*

650 - RUBE GOLDBERG MACHINE DESIGN | 0.5 credit for 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. Application required.

635 - COMPUTER SCIENCE DISCOVERIES (CODE.ORG) | 0.5 credit

In this introductory computer science, course students will be empowered to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. Student will learn problem solving, programming, physical computing, user centered design, and data skills in order to build their own websites, apps, animations, games, and physical computing systems.

ENGLISH

4.0 CREDITS REQUIRED FOR GRADUATION

105 - Foundations in Composition and Literature OR 104 - Accelerated Foundations in Composition (if placed by entrance exam) is required to be taken Freshman Year. PIUS XI Yearbook counts as an Elective Course and not as an English Course.

AP Courses are available to be taken upon meeting all requirements.

105 - FOUNDATIONS IN COMPOSITION AND LITERATURE | 1.0 credit

In this yearlong, introductory English course, students will be exposed to a variety of literary classics in multiple genres: short stories, novels, plays, and poetry. Featured texts include, but are not limited to, Lorraine Hansberry's, *A Raisin in the Sun*, F. Scott Fitzgerald's, *The Great Gatsby*, and Langston Hughes', *Thank You, Ma'am*. 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.

104 - 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. Featured texts include, but are not limited to, Sandra Cisneros, *A House on Mango Street*, Markus Zusak's, *The Book Thief*, and two independent novel selections. PREREQUISITES: Top 85th percentile of class on English Entrance Exam

180 - THE MYTHOLOGY OF BRITISH LITERATURE | 0.5 credit

In this semester-long course, sophomores will study British literature from a mythical perspective. As such, the class will revolve around Epistemology and the crisis of knowing or not knowing that everyone faces. A particular emphasis will be put on the clash between the "I" and the "Other" and why it is so difficult to build tolerance and community. Fundamental questions like "what is the relationship between authority and equality?" "And "how can beliefs and facts be reconciled?" are posed to the student in hopes of discovering new modes of thought and discourse. The Mythology of British Literature can best be experienced by those taking courses in Biology and Physical Science classes, as well as Social Justice Curricula and any number of Social Science courses. It is through these connections that the course seeks to enlighten and deepen the student experience.

187 - 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.

172 - RESEARCH AND PRESENTATION SKILLS | 0.5 credit

This course prepares students for a variety of academic and formal situations in which presentations or public speaking is required. Students who intend on pursuing a career that will require an emphasis on professional communication, such as law, medicine, sales, or education would benefit from this class. Students, who feel self-conscious about their public speaking skills and are looking to improve before graduation, would greatly benefit from enrolling. Topics covered will include reducing speech anxiety, interviewing skills, conflict resolution, techniques of oral presentation, and tips for writing a college admissions essay.

171 - CONTEMPORARY LITERATURE | 0.5 credit

Juniors and seniors who take this semester-long course will analyze contemporary fiction and apply myriad approaches to literary interpretation. Featured literature selections include Yann Martel's, *Life of Pi* and Anthony Burgess', *A Clockwork Orange*. Students will also be challenged to fine-tune their digital literacy by interpreting literature through audiovisual writing. Students will depict their close readings and critical analysis of texts through sound, lyrics, and fine art, ultimately devising a product that blends their visual and audio interpretations of the feeling and imagery of the text into a single product.

145 - 20th 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 engage with featured selections by Ernest Hemingway, Joni Mitchell, and Yasunari Kawabata. Students will question ideas and systems, make and break connections, and learn to think for themselves in essays, discussions and creative projects.

173 - CREATIVE WRITING | 0.5 credit

This course is designed for juniors and seniors who enjoy writing as a form of art and personal expression. In this course, students will explore the elements of numerous literary genres (short fiction, poetry, drama, film) and the power of both print and multimedia formats. To develop original writing pieces, students will engage in writing workshops, literary element development lessons, writing/author studies, and peer reviews and conferences. To show evidence of writing development throughout the course, students will be required to engage in writing community activities that require sharing one's work and in publishing one's writing beyond the classroom setting.

175 - BLACK WRITERS AND ARTISTS | 0.5 credit

This intensive senior-level course focuses on often-overlooked artistic contributions to American culture by black writers, artists, and change-makers from various historical periods. Featured authors include Yaa Gyasi, Toni Morrison, and Tomi Adeyemi. The course is designed for the senior who wishes to delve into thematically complex texts (both fiction and nonfiction) and who has a genuine interest in participating in important, respectful discourse on delicate topics. Students will also reflect on their own experiences and prepare for their futures as members of a global society.

LIT TOP - LITERATURE TOPICS | 0.5 credit

In this 2nd semester study-abroad English course, students will study the origin and historical context of a selected area overseas. We will read literature relevant to the time-period and cities that influenced the chosen topic. As a capstone experience at the end of this course, students will travel to those countries to study these works closely and engage in discussion revolving around the chosen topic. *REQUISITE: To take this course, students must travel with the class to Europe. Applications and acceptance into program required. Open to sophomores, juniors, & seniors.*

163 - WOMEN'S VOICES IN LITERATURE | 0.5 credit

This one-semester course examines contemporary literature (short stories, novels, memoirs, and poetry) by women writers including Octavia Butler and Lindy West, 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 a 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.

REQUISITE: Rotates with 141 –World Literature (It won't be offered 2024-2025). Junior/Senior Course

141 - WORLD LITERATURE | 0.5 credit

(2024 – 2025)

In this one-semester course, you will examine literature from Africa, Australia, Asia, the Middle East and Spanish-speaking worlds. The course will focus on diverse approaches to the themes of ancestry, family, authority, freedom and love. World Literature is intended to expand the horizons of our students, who, in previously literature classes, have been predominantly exposed to the literature of the United States and Europe. *REQUISITE: Rotates with 163 - Women's Literature (It will be offered 2024-2025). Junior/Senior Course*

150 - AP ENGLISH LANGUAGE AND COMPOSITION | 1.0 credit

In this AP English Language and Composition course, students will study the use of language through various forms. The primary goal of this course is to analyze the author's purpose by engaging in conversation through texts of various disciplines. Through the study of rhetoric, students will develop the ability to analyze effectively language in a variety of forms such as argumentative, synthesis, and rhetorical analysis. While interacting with the author's purpose of the text, the students will also discern how the author uses language to convey this message to the audience. Students will be required to brainstorm, create outlines, revise through several drafts, and

utilize the Pius XI Writing Center regularly to engage in conversation about their writing. These conversations through writing are an integral component of the course and will be practiced through writing circles, peer conferences, and teacher conferences.

*Applications and acceptance into the program is required.

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

155 - AP ENGLISH LITERATURE AND COMPOSITION | 1.0 credit

This yearlong 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.

*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. *Applications and acceptance into the program is required.*

253 - PIUS XI YEARBOOK STAFF | 0.25-0.5 credit

This program is designed for students who are creative, responsible and organized, who can apply the principles of copywriting, editing, layout and photography to the production of the yearbook.

Computer skills will be developed through the use of Desktop publishing. Other activities include public relations, budgeting, photography, and scheduling activities. OPEN TO all grade levels. Juniors and Seniors who serve as publication editors receive 0.5 credit.

PREREQUISITE: Consent of instructor and application required. Elective – Does not count toward English requirement for graduation.

WRITING CENTER TUTOR PROGRAM | 0.5 credit/SEM

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 tutoring.

PREREQUISITE: Completion of the writing tutor training before 1st year as a writing tutor; Junior or Senior standing course during the summer. Elective - Does not count toward English requirement for graduation.

WRITING TUTOR SUMMER TRAINING PROGRAM | 0.5 credit

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: TBD . Elective - Does not count toward English requirement for graduation.

FITNESS AND WELLNESS

2.0 CREDITS REQUIRED FOR GRADUATION

0.5 credits of PE is required during Sophomore, Juniors, and Senior Years for graduation.

084 - Contemporary Health is required during Freshman or Sophomore years.

089 - Sports Medicine and 087 - Sports Officiating each count as an elective credit and not as PE credit.

085 - 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.

084 - 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 about 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 in their junior year if they have 7.5 or more credits sophomore year.

086 - SOPHOMORE CO-ED PHYSICAL EDUCATION | 0.5 credit

The focus of this one semester course will be to engage students in a variety of lifetime activities.

Students will acquire a solid understanding of factors necessary to maintain a high level of fitness and wellness. 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.

090 - 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.

091 - 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 and motivated students.

092 - 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.

095 / 096 - 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. Using 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.*

093 / 094 - 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.*

089 - SPORTS MEDICINE | 0.5 credit

(2024-2025)

This class is intended to be an introductory course in sports science. For those students who are interested in careers relating to sports and sports science, this course will introduce anatomy, physiology, kinesiology, effects of exercise on the body, how to identify and treat sports-related injuries, emergency preparedness, and taping/wrapping of injuries. The class will culminate in a project on a career related to sports along with field hours observing the athletic teams. **Rotates with 087 – Sports Officiating*

087 - SPORTS OFFICIATING | 0.5 credit

(2023-2024)

Students will be given the opportunity to learn the technical rules of a variety of mainstream high school sports, in order to build a strong base of knowledge that an official would require. In addition, students will be trained on the key dispositions that officials must have to be effective in their role. Many people apply their knowledge of sports and combine that with passion

for the sport when pursuing officiating as a career or hobby. Officiating provides the opportunity for those passionate about athletics to contribute to maintaining the ethics of the sport, while ensuring that participants and athletes have an experience that is enriching and fair. This course will help students grow in their understanding of rules while also learning to make quick and fair decisions. **Rotates with 087 – Sports Medicine*

MATHEMATICS

3.0 CREDITS REQUIRED FOR GRADUATION

Algebra, Geometry, and one credit beyond Geometry are required for graduation.
AP Courses are available to be taken upon meeting all requirements.

313 / 311 - ALGEBRA I: ACCELERATED* 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. Both levels teach the same concepts, but Accelerated Algebra will include more complex and independent problem solving than Standard Algebra. Algebra is a Pius XI graduation requirement.

PREREQUISITE: Placement based on entrance exam, standardized test scores, and previous grades.

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

323 / 321 - 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. Both levels teach the same concepts but Accelerated Geometry will also include mathematical proofs of the geometric theorems. 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.

332 - ALGEBRA 2 & TRIGONOMETRY | 1.0 credit

In this course, students will strengthen their mathematical and problem-solving skills. Students will deepen their understanding of algebra and learn trigonometry, "the measurement of triangles." 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 a student's current math instructor. *Students will need a TI-84+ (preferred) or a TI-84 Silver Edition Graphic Calculator for this class.*

343 – AP PRE-CALCULUS & TRIGONOMETRY | 1.0 credit

This course has multiple objectives, all of which should help prepare students for Calculus. Specifically, students will study functions, function behavior, polynomials, trigonometry, and statistics in depth. Students will learn to identify, graph, and transform functions and polynomials. This course will extend students' knowledge of trigonometry and apply it to various real-world contexts. Students will develop a more solid comprehension and mastery of important mathematical skills and concepts to which they have already been exposed.

PREREQUISITES: Accelerated Algebra and Accelerated 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.

341 - 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 Pre-Calculus & Trigonometry 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.

340 - AP CALCULUS BC | 1.0 credit

This course covers topics identified by the College Board for inclusion in the first and second semester of college calculus. Students will develop mathematical knowledge conceptually, and apply this knowledge to accurately solve diverse types of problems. Students will cover differential and integral calculus including limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. Students enrolled in this course are prepared to take the Advanced Placement Calculus BC Exam.

PREREQUISITE: Successful completion of AP Calculus AB and consent of instructor.

Students still 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 BC Exam. If a student does not complete the AP Calculus BC Exam they will receive a weighted grade.

350 - 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 C or better in Algebra 2 & Trigonometry or Pre-Calculus & Trigonometry and/or recommendation of current math teacher.

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

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

344 - INTEGRATED MATH APPLICATIONS | 1.0 credit

This course will extend students' Algebra, Geometry, Trigonometry, and Statistics skills beyond what they have learned in their previous coursework. Students will engage in problem solving and project-based learning to apply their content knowledge and skills to real-world contexts.

PREREQUISITE: Successful completion of Algebra 2 and Trigonometry OR Pre-Calculus and Trigonometry.

SCIENCE

3.0 CREDITS REQUIRED FOR GRADUATION

Three credits including Biology are required for graduation. Biology can only be taken in Freshman or Sophomore Years.

AP Courses are available to be taken upon meeting all requirements.

362 - 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.

373 – BIOLOGY | 1.0 credit

Biology is the study of living organisms and the Earth they live on. 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.

PREREQUISITES: Placement based on entrance exam, standardized test scores, and previous grades or Sophomore standing.

376 - 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.

381 - 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

392 - PHYSICS | 1.0 credit

In this yearlong 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

391 - 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.

369 - 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

370 - 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 Biology*

371 - PLTW: MEDICAL INTERVENTIONS | 1.0 credit

In this year-long course, students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

PREREQUISITE: C or better in PBS or HBS or AP Biology or concurrent enrollment in AP Biology

BIOSLR - STUDENTS UNDERSTANDING PRINCIPLES OF RESEARCH THROUGH MEDICINE, ENGINEERING AND SCIENCE (SUPREMES) | 1.0 credit

In this year-long course, students will gain educational experience in biomedical research, clinical research, and technology development in funded laboratories at the Medical College of Wisconsin, Marquette University, Children's Hospital of Wisconsin Research Institute and Zablocki Milwaukee VA Medical Center. Students will be introduced to new technologies, cutting-edge research, and exciting laboratory practices, guided and taught by highly skilled, established faculty investigators.

PREREQUISITE: Junior or Senior standing, application required.

365 - BIOLOGICAL LABORATORY INVESTIGATIONS IN FORENSIC SCIENCE | 0.5 credit (2023-2024)

In this one-semester course, you will actively explore, analyze and apply biological concepts related to the science of crime scene investigation and how it applies to law. Topics of study will include evaluation of evidence, hair and blood analysis, forensic botany, entomology, and anthropology, DNA and fingerprint technology, and a virtual autopsy experience. Please be aware that some of the topics covered are of a sensitive nature.

367 - PHYSICAL SCIENCE LABORATORY INVESTIGATIONS IN FORENSICS | 0.5 credit (2023-2024)

In this one-semester course, you will actively explore, analyze and apply physical science concepts related to the science of crime scene investigation and how it applies to law. Topics of study will include evaluation of evidence, fiber, textile, glass, soil, and handwriting analysis, tool mark and impression evidence, and forensic toxicology. Please be aware that some of the topics covered are of a sensitive nature.

364 - PROCESSES OF PLANET EARTH (POPE) | 0.5 credit (2024-2025)

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.

366 - 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: Completion of Biology and C or better in Algebra 1

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

3.0 CREDITS REQUIRED FOR GRADUATION

Three credits including American Government (Sophomore Year), US History (Junior Year), and Economics courses are required for graduation.

AP Courses are available to be taken upon meeting all requirements.

401 - INTRODUCTION TO SOCIAL SCIENCE | 1.0

This full-year course introduces a variety of disciplines within the Social Sciences that are not normally covered during freshman year. These include Psychology, Economics, and Sociology. Its purpose is to give students an opportunity to study topics that relate to both their own lives and the environments in which they live. In addition, it will help them decide which areas of social science most interest them, while learning foundational concepts that will prepare them for high level courses. PREREQUISITE: *Freshman standing*

411 - 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 analyze history, geography, and culture through different points of view, historical evidence, and enduring themes that lead to the state of the modern world. This is a fast-paced course designed to challenge students to think beyond what they've already learned in history, using complex texts and communicating through advanced level writing and discussion.

PREREQUISITE: *Freshman or Sophomore Standing.*

415 - DIVERSITY AND HUMAN RIGHTS | 0.5 credit

This is a one-semester course designed to expand our understanding of human rights, what that means, and how they are both honored and violated. The centerpiece of this course is the Universal Doctrine of Human Rights, established after World War II. The diversity component will analyze the history of American diversity to its present-day situations and attempt to find the vessels that bring understanding and resolution.

PREREQUISITE: *Junior or Senior standing*

421 - 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*

420 - 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. **PREREQUISITE:** Sophomore Standing

Recommended for path to AP US History

461 - 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. Economics or AP Macroeconomics is required for graduation

PREREQUISITE: *Sophomore, junior or senior standing*

460 - 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. Economics or AP Macroeconomics is required for graduation.

PREREQUISITE: *Sophomore, junior or senior standing.*

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

456 - INTRO TO PSYCHOLOGY | 0.5 credit

This one-semester course is designed to introduce students to the study of the behavior and mental processes of human beings. Students will learn about psychological principles and phenomena seen in real life, as well as research methods used to study human behavior. The course will instill knowledge, skills, and attitudes that can be applied to the student’s own life. **PREREQUISITE:** Junior or Senior standing

455 - AP PSYCHOLOGY | 1.0 credit

This course will dive deep into the systematic and scientific study of human behavior and mental processes. Students will learn psychological theories, principles, and phenomena with an emphasis on applying those concepts to real life. Students will also learn about the research methods and data analysis psychologists use to explain human behavior. This college level course offers the possibility of obtaining AP credit and requires significant independent work, but will instill knowledge, skills and attitudes to the student’s own life.

PREREQUISITE: *Junior or Senior standing and completed application.*

To have a successful, complete experience in this AP course, students must complete the AP Psychology Exam. If a student does not complete the AP Psychology Exam they will not receive a weighted grade.

434 - US HISTORY: 1800 - PRESENT | 1.0 credit

This is a general survey, full-year course of the history of the United States, covering the period from 1787 to the recent past. Students will learn about the political, social, and economic factors that shaped America. US History or AP US History is required for graduation.

PREREQUISITE: *Junior standing and Foundations of American Government*

434 - 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. US History or AP US History is required for graduation.

PREREQUISITE: *Junior standing, Successful completion of Honors American Government or consent of the instructor.*

To have a successful, complete experience in this AP course, students must complete the AP US History Exam. If a student does not complete the AP US History Exam, they will not receive a weighted grade.

465 - SOCIOLOGY | 0.5 credit

This one semester course, examines the fundamental concepts of Sociology. Its main purpose is for students to develop an understanding of how larger social forces affect our everyday lives and behavior. Some of the topics discussed will be conflict, interactionist and functionalist theory, labeling, sociological imagination, aspects of culture, research methods, communication and social norms.

PREREQUISITE: Junior or Senior standing

851 - THE CONTEXT OF WESTERN CULTURE 1700 TO PRESENT – Art History | 0.5 credit

In this one-semester course students will investigate issues, define movements, and contextualize the history of art through cultural happenings. Students will research the interaction of art and recent society with emphasis on Modern through Contemporary periods. This course covers the biographical and societal contributions of major artists, the development of notable mediums, changes in critical attitudes towards art, and prepares students for college-level Art History and theory.

The Advanced Placement Test is optional. This course is required for AP Portfolio students and is open to all interested Juniors and Seniors. A class museum visit to Chicago is required.

This course counts towards a student's Social Science credit requirements.

THEOLOGY

4.0 CREDIT REQUIRED FOR GRADUATION

One credit of Theology is required to be taken each year. 051 - Morality and Ethics is required for graduation.

004 / 005 - LIVING OUR FAITH | 1.0 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 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: Freshman standing

001 / 002 HEBREW / CHRISTIAN SCRIPTURE | 1.0 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, be introduced to Jesus the Christ, and learn how Jesus came to fulfill the Hebrew expectations for the Messiah. In this course connections will be made between the faith journeys of our ancestors and a student's faith journey and relate to modern-day issues within the Catholic Church and the world.

PREREQUISITE: Sophomore standing

075 - BIBLICAL THEMES IN LITERATURE 0.5 credit

This course will examine major life themes found both in the Bible and modern or contemporary literature. Some of the themes that will be discussed are love, forgiveness, journey of the hero, conflict, and salvation, amongst others. Students will read The Gospel of John, a selection of short stories, poetry as well as selected novels. The purpose of this course is to gain an appreciation for life themes that have been present since the beginning of civilization and are still relevant today. This course will seek to find answers to humanity's struggles and rejoice in humanity's triumphs.

PREREQUISITE: Junior or Senior standing

041 - WORLD RELIGIONS | 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

031 - CHRISTIAN SPIRITUALITY | 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

065 - 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.

PREREQUISITE: Junior or Senior standing

051 - 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.

071 - CHRISTIAN DISCIPLESHIP AND LEADERSHIP | 0.5 credit

This is a one semester course designed to use a practical and pastoral approach to theological questions such as: What does it mean to be a Disciple of Jesus in a modern complex world? What are the challenges and benefits to being a Disciple of Jesus? What does it mean to be a servant leader? Students will examine their own faith journey as they compare and contrast lives and experiences of others to better understand their own path. Through research, readings and reflections students will make connections between contemporary leaders and Jesus as a leader.

PREREQUISITE: Senior standing. Application required.

006 - CHURCH HISTORY | 0.5 credit

“Foundations of Church History” is a Theology course that will examine the individuals and major events that have shaped the Catholic Church. Students will explore the roots of Catholic doctrines as well as the evolution of thought in the Church. By looking at the past, we will better understand the present.

PREREQUISITE: Junior or Senior standing.

WORLD LANGUAGES

2.0 CREDITS REQUIRED FOR GRADUATION

Two credits of the same World Languages are required for graduation.

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. This course is designed to emphasize the use of French for active communication. As it is instructed entirely in French, the goal is to perfect the student’s speaking, listening, reading, and writing skills. Students will develop expanded vocabulary and higher-level grammatical structures adequate for interpreting authentic French-language resources. This course also develops the students’ ability to express themselves with reasonable fluency in various situations and contexts.

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

AP FRENCH | 1.0 credit

French language study culminates with Advanced Placement French. This course is designed to emphasize the use of French for active communication. It is designed to perfect the student's speaking, listening, and writing skills in preparation for the French language AP exam. *This course needs instructor approval and is conducted as an independent study.*

To have a successful, complete experience in this AP course, students must complete the AP French Language Exam. If a student does not complete the AP French Language Exam they will not receive a weighted grade.

SPANISH I | 1.0 credit

In Spanish 1, students will begin to acquire skills in speaking, writing, and comprehending spoken and written Spanish. Students will engage in partner conversation activities, projects, writing, reading, and listening tasks, and online activities to acquire language skills and cultural knowledge of the Spanish-speaking world. Emphasis is on the acquisition of authentic communication skills and an abundance of vocabulary and grammar skills in order to be successful in Spanish II.

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 and instructor consent

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 and instructor consent.*

SPANISH FOR HERITAGE SPEAKERS | 1.0 credit

Heritage Speakers is a program that has been developed for students 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. 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 and instructor consent

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, consent of instructor, and completed application. Students must demonstrate proficiency at an adequate level to enroll.

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.