

# Program of Studies 2024-2025

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#### **Mission Statement**

Educating in a joyful, Catholic community of faith, hope, and love, Saint John's Catholic Preparatory School prepares our students to be leaders with good hearts and discerning spirits as they pursue truth, academic excellence, and service to humanity.

#### **School Philosophy**

Saint John's Catholic Prep enjoys a long tradition of service to its students, its community, and to the kingdom of God. That tradition is rooted in the values established by its Jesuit founder, Father John McElroy, which in turn reflects both the message of Jesus and the way he taught through wisdom, reason, story, and personal example.

We believe that our responsibility is to bring knowledge of the past to our students, to engage them in the present, and to prepare them for the future. The purpose of our effort is to create good citizens, sensitive to the needs of others, morally and intellectually responsible for our world and ready to account to God for their lives. To those ends we strive to offer a strong academic program intended to endow our students with the intellectual, spiritual, athletic, and aesthetic qualities needed to maintain the world as God intended at its creation.

#### **Objectives**

To recognize the Magisterium of the Church in matters of faith and morals;

To provide opportunities for prayer, reflection, and service to others as an expression of one's faith;

To maintain a code of conduct that creates an atmosphere of self-discipline and self-direction;

To develop within the individual a respect for self and for others in a family environment;

To encourage the student to grow as a critical thinker and to foster the fullest development of the individual's academic and personal potential;

To encourage students to assume a responsible role in planning their course of study;

To guide students as they progress academically to appreciate the relevance of the past as it applies to both present and future experiences;

To motivate the student to strive not only for academic excellence but also for personal satisfaction and social fulfillment:

To support qualified instructors who, through a variety of techniques and experiences, assist students to reach their maximum potentials;

To provide for each student a core curriculum which is regularly evaluated based upon the needs of the student:

To provide resources which develop skills enabling students to pursue a lifetime of learning;

To enhance the academic program by providing extracurricular experiences which foster spiritual, intellectual, physical, and social development.

### **Academic Requirements**

To graduate and receive a Saint John's diploma, a student must pass (65% or better) all required courses and fulfill all academic requirements for graduation. These academic standards shall be consistent with state requirements for granting of a high school diploma. SJCP reserves the right to impose academic requirements above and beyond those set by the Maryland State Department of Education. The school offers three diplomas: a College Preparatory Diploma, a Diploma with Honors, and a Diploma with High Honors.

The credit requirements for these diplomas are as follows:

### **College Preparatory Diploma**

To be awarded a student must have a weighted GPA of 2.0 - 3.49.

Theology (1 credit for each year of enrollment at Saint John's)	4 credits
English	4 credits
Mathematics (including 1 credit each of Algebra I, Geometry, & Algebra 2)	4 credits
Science (including 1 credit Biology, 1 credit Chemistry, and 1 credit Physics)	3 credits
Social Studies (including 1 credit each of Government, U.S. & World History)	3 credits
World Language (must be continuous unless approved by administration)	3 credits
Physical Education	½ credit
Health	½ credit
Fine Arts	1 credit
Technology	1 credit
Personal Finance	½ credit
Electives	1 ½ credits
Total	26 credits

<u>Diploma with Honors</u>: To be awarded a "Diploma with Honors" a student must have a weighted GPA of 3.5 - 3.99.

<u>Diploma with High Honors</u>: To be awarded a "Diploma with High Honors" a student must have a weighted GPA of 4.0+.

Individual college and university entrance requirements differ, and these requirements are constantly changing. It is important that the student checks the entrance requirements of the college or university he/she plans to attend upon graduation. For instance, some colleges recommend four years of a world language. This information may be obtained through the college counselor or by contacting the admissions office at a specific college or university.

### **Graduation Requirements**

- 1. Students will meet all the State of Maryland course and attendance requirements necessary for graduation. The State of Maryland sets "Acceptable Attendance" that means students can miss no more than 10 classes in a semester course or 20 classes in a year-long course as they risk losing credit for the course.
- 2. Students will meet all requirements for graduation set forth by the Archdiocese of Baltimore.
- 3. Students will meet all course and attendance requirements necessary for graduation as set forth by Saint John's Catholic Prep.
- 4. Students will not be permitted to participate in any graduation activities or request official transcripts unless their financial obligations to the school have been met (tuition, uniforms, textbooks, fines, etc.).
- 5. Students must participate in a class retreat for every year in attendance.
- 6. To be considered for class Valedictorian or Salutatorian, a student must attend SJCP for at least three full years.
- 7. Participation in graduation activities is a privilege which may be denied to students due to unseemly behavior, discipline record, failure to attend graduation practice, etc.
- 8. Students must complete 80 hours of approved community service, as outlined in the Parent/Student Handbook.

#### **Advanced Placement Courses**

AP classes are taught at a higher level than normal high school classes. Ideally, they are as challenging as many freshman level college classes. For example, AP English Literature is designed to be as challenging as a freshman English class at a typical college.

The AP Exams are scored on a scale from 1 to 5, with a score of 5 being the highest. Each college determines whether or not they will accept AP credit and, if so, what score is needed. The AP exam in May allows students to potentially earn credit for the opportunity to take higher level courses in their freshman year and saves money that would be invested in those beginning level courses.

At the end of an AP class offered at Saint John's Catholic Prep, students **must sit for the AP Exam in May**. The fee for each exam is \$98 (2023 – 2024 fee); this price is set by the College Board and must be paid by parents. By taking the exam, students have an opportunity to earn college credit for the course. In some instances, at the end of the third quarter, the AP teacher may recommend that struggling students forgo the standardized, College Board test altogether and instead opt for an in-class, AP final exam given during senior exam week.

To register in an AP course at Saint John's, a student must have his/her teacher's approval and the department chair's approval.

# **Enrolling in Courses at Saint John's**

The course selections requested by students determine how the master course schedule is developed. Effort will be made to schedule students with their original course requests though some conflicts are unavoidable. Please be sure to list alternate electives on the course selection sheet.

Prior to registration, counselors will meet with each student to discuss their academic requirements and opportunities for the coming year. The student's future college and career goals will be assessed to give the student every opportunity to achieve his/her goals.

After completing the course selection sheet and gaining teacher's approval, students then enter course requests through Blackbaud. Just because a student requests a course doesn't guarantee that he or she will be placed in that course. Course placement depends on course availability, scheduling priorities, interest levels, resources, and departmental approvals.

The master schedule will be developed after course registration in the Spring. Schedules will be available for students to view in Blackbaud in mid-July. The date and the procedure to request schedule changes will be announced in August. No schedule changes will be made prior to the schedule change period.

# **Original Credit**

Original credit may not be taken outside SJCP during the school year if the course is offered as part of our academic program. Original credit may be taken only with the permission of the administration if the course is not offered at SJCP or there are extenuating circumstances. Any exception to the policies on academic probation, ineligibility, or failure policy must be the result of administrative action.

# **SJCP Homeschool Transfer Policy**

When a student requests to enter SJCP from Home Instruction (Homeschooling): Please understand that the local public school system Home Instruction Office does not assign credit to work accomplished while on homeschooling, nor are they allowed to determine grade level, promotion, placement, or issue a transcript. Below are the steps SJCP will take when a student wants to enroll from homeschooling.

A team established by the Assistant Head of School shall review a portfolio of materials including student work, transcripts, grade reports, or progress reports to formulate recommendations about placement, grouping, and any transfer credits to be awarded. The material being reviewed may include textbooks, student work, tests, syllabi, and/or transcripts, grade reports, or progress reports from online programs or accredited or unaccredited colleges.

- 1. The review team may include the Assistant Head of School, a school counselor, department chairpersons for the four traditional academic subjects, and a teacher from each area of proposed credit.
- 2. The Assistant Head of School and review team may administer summative assessments as well as consider any available results of AP testing and state-mandated assessments, as appropriate, to assist in determining appropriate grade or academic level placement and credits to be awarded toward high school graduation. These assessments are to be used in conjunction with the aforementioned portfolio review and interview. The summative assessment is not to be used in isolation to determine placement, grade, or credits.
- 3. The Assistant Head of School shall determine any credits to be awarded toward high school graduation, using the recommendations from the school review team. The Assistant Head of School shall inform the parent or guardian, in writing, about decisions to award credit toward high school graduation.
- 4. In lieu of grades, the designation "HI" (Home Instruction) shall be entered on the student's report card and cumulative records. Such marks will not be included when calculating GPA and honor roll. If the course was completed at an accredited institution, grades may be considered.

For more information on homeschooling admission policy, refer to the current Parent/Student Handbook.

# **NCAA Approved Core Courses**

If your plan is to participate in NCAA sports at the college level, you are responsible for making sure you are taking courses that are approved by the NCAA. Approved classes in the Saint John's Program of Studies are marked with an asterisk.

NCAA schools require college-bound student-athletes to build a foundation of high school courses (core courses) to prepare them for the academic expectations in college. For a high school class to be an NCAA-approved core course, it must meet these conditions:

- 1. Be a four-year college preparatory course in one of these subject areas:
  - English
  - Math (Algebra I or higher)
  - Science
  - Social science
  - World language
  - Nondoctrinal religion/philosophy.
- 2. Be taught by a qualified instructor.
- 3. Be taught at or above your high school's regular academic level.
- 4. Receive credit toward high school graduation and appear on an official transcript with course title, grade and credit awarded.

WHAT IS NOT A CORE COURSE? Not all high school classes are NCAA-approved core courses. Some examples of courses that are not NCAA-approved core courses include:

- Courses in non core areas, such as driver education, typing, art, music, physical education or welding.
- Courses that prepare students for the world of work or life, or for a two-year college or technical school, such as personal finance, consumer education or tech prep.
- Courses taught below grade level, at a slower pace or with less rigor or depth, such as basic, essential, fundamental, or foundational courses.
- Credit-by-exam courses

**CORE-COURSE CREDITS:** You can earn credit for a core course only once. If you take a course that repeats the content of another core course, you earn credit for only one of these courses, and the higher-grade counts toward your core-course GPA. For more information on core-course credits, visit ncaa.org/student-athletes/ future/core-courses.

Info from: http://fs.ncaa.org/Docs/eligibility\_center/Student\_Resources/CBSA.pdf

# **COURSE OFFERINGS**

# **English**

Grade	9	10	11	12
Required	English 9 English 9 Honors	English 10 English 10 Honors	English 11 English 11 Honors  AP English Language & Composition	English 12 English 12 Honors  AP English Literature and Composition  AP English Language &
				Composition  COMM 372  Propaganda and  Disinformation

#### English 9/9 Honors (1 credit) \*

Students in English 9 embark on adventures from a selection of Western literature from its very beginning through the Renaissance, and into modern times. With a focus on literary works that feature ordinary people who find themselves in extraordinary circumstances that require heroic acts, students will explore the archetypal hero's journey and discover the ways ancient texts are relevant in the 21<sup>st</sup>-century classroom. They will hone effective verbal and written communication skills throughout the course using techniques such as developing paragraphs with supporting evidence, constructing comparative, and persuasive essays, summarizing material, utilizing figurative language, analyzing inferential language, and contextual clues. Rich classroom discussions will explore literary themes and introduce a variety of literary devices. Novels of study include, but are not restricted to Homer's, *The Odyssey, Beowulf,* and Shakespeare's *Macbeth*.

#### Honors:

#### Prerequisite: Department Approval

Due to the rigor of an Honors level course, students are expected to conduct themselves with a higher level of self-discipline through effective time management and intellectual curiosity.

#### English 10/10 Honors (1 credit) \*

Examining the works of our Nation's authors, students will identify the changing interpretation of the "American Dream." This survey course begins with Native American literature and chronologically follows America's literary movements through the Post-Modern era, to reflect America's unique and diverse culture. Students will learn to incorporate historical events and socio-economic status to better decipher the American experience through literature. A foundation in literary analysis is established through study of America's great poets, playwrights, novelists, and authors. Students will move beyond the skills of plot

summary to delve into critical analysis, theme identification, and vocabulary expansion as it pertains to America's literature and rhetoric. Formal narrative, research, and argument writing projects are combined with professional communication skills such as email etiquette, blog posts, virtual journals, presentations, and discussion. This mixture helps students to demonstrate academic vocabulary and their understandings of our American culture.

#### Honors:

#### Prerequisite: Department Approval

For the ambitious and conscientious student, the Honors level course presents a rigorous and fast-paced year. Honors level students are expected to consistently employ independence of thought and mature habits of critical thinking. Students will be expected to assume responsibility for deadlines, revising essays, and preparing for class each day. Students must exercise self-discipline when preparing for all assignments.

#### English 11/11 Honors (1 credit) \*

In this survey course, students will read, analyze, and write about British and European literature from the early modern period to the present day. Students will gain a greater appreciation for the intellectual, political, and cultural eras of writers and the impact of their works. Authors whose work will be examined include, but are not limited to: William Shakespeare, Jane Austen, Charles Dickens, George Bernard-Shaw, and Kazuo Ishiguro. We also explore poetry, short stories, and speeches. Students will build their writing skills by crafting complex sentences and thesis statements that express a clear, concise voice, creating paragraphs that convey meaning, incorporating well-researched evidence into their assignments, and implementing MLA style citations consistently and correctly. Further emphasis will be placed on how to read critically and to prepare students for the expectations of college-level reading and writing.

#### Honors:

#### Prerequisite: Department Approval

For the ambitious and conscientious student, the Honors level course presents a rigorous and fast-paced year. Honors level students are expected to consistently employ independence of thought and mature habits of critical thinking. Students will be expected to assume responsibility for deadlines, revising essays, and preparing for class each day. Students must exercise self-discipline when preparing for all assignments.

#### AP English Language and Composition (1 credit) \*

#### Prerequisite: department approval (Juniors and/or Seniors)

This course is constructed in accordance with the guidelines outlined in the College Board AP English Course Description. Advanced Placement English Language and Composition, a college-level writing course, is designed to develop students' abilities as critical readers and writers while preparing them for the AP English Language and Composition exam in May. This class achieves these goals through the following: analysis of non-fiction texts, rhetorical techniques, and literary devices; development of research, annotated reading and writing process techniques, and applied grammar and vocabulary.

An AP course requires students' best efforts consistently and emphasizes their developing independence of thought and mature habits of critical thinking. Students will be expected to demonstrate the same behavior and attitude that will be required of them as college students; this means that they will be expected to assume responsibility for deadlines, revising essays, and preparing for class discussions.

Students must exercise self-discipline when preparing for all assignments. Authors whose work will be examined include (among many others): Maya Angelou, Abraham Lincoln, Ralph Waldo Emerson, Frederick Douglass, Gandhi, Tim O'Brien, Steve Jobs, and Gandhi. Students enrolled in this course must sit for the AP exam in May.

#### English 12 World Literature (1 credit) \*

This class is designed to acquaint students with authors, writings, and cultures around the world in accordance with historical time periods. Students will explore and analyze the diversity, significance, and relevance of world literature. Emphasis is placed on making personal and social connections with the historical background and cultural context of the authors and reading. In conjunction with the literature, a continuation of previously learned writing formats and styles will be perfected. Attention will be paid to understanding the author's purpose, tone, structure, and techniques. Students will learn to model their own writing after patterns found in published author's works and to find their own topic ideas from reading quality writing. Students will refine their grammar and sentence fluency skills through careful editing of their own work and that of their peers. Students will produce polished pieces as the culminating task for each unit.

#### English 12 Honors (1 credit) \*

#### Prerequisite: Department Approval

Designed for the ambitious student, English 12 Honors is reading and writing intensive. Using Victorian science fiction and fantasy as the focus, this course further develops careful and analytical reading, research, writing, speaking, and critical thinking skills. Through close reading of selected texts by H.G. Wells, Bram Stoker, Jules Verne, Oscar Wilde, and Robert Louis Stevenson, students develop understanding of the ways in which writers use language to explore intellectual, political, cultural, and social structure in the Victorian era. This course is recommended for students who are willing to devote the extra time and rigor for independent reading, writing, and projects in preparation for college.

# AP English Literature and Composition (1 credit – Senior Preference) \* \* Prerequisite: Department Approval

Recommended seniors in this accelerated course study the various modes of drama (Greek tragedy, comedy, satirical, and modern), the various forms and techniques of poetry through readings, and analytical discussions of works of literary merit. In addition, to practice analytical and composition skills, students undertake a number of timed writings based on the literature under study and are introduced to longer literary analysis papers focusing on Critical Theories. Vocabulary enhancement is offered, as is individualized instruction in usage and mechanics. An AP course requires students' best efforts consistently and emphasizes their developing independence of thought and mature habits of critical thinking. Students will be expected to demonstrate the same behavior and attitude that will be required of them as college students; this means that they will be expected to assume responsibility for deadlines, revising essays, and preparing for class discussions. Students must exercise self-discipline when preparing for all assignments. Students enrolled in this course must sit for the AP exam in May.

COMM 372 Propaganda and Disinformation (3 college credits, 1 SJCP credit) Mount St. Mary's University – Frederick Campus – offered through the part time program for select seniors. Prerequisite: Seniors with required GPA

This class surveys modern practices of creating and circulating messages designed to misinform and mislead public audiences. Students learn to assess the worth of information through practical understandings of information literacy, media ethics, and the common tactics of mass-mediated manipulation. This course is weighted as an honors course.

#### Fine Arts

#### Art I (1 semester, ½ credit)

This Introductory course will focus on the basics of Art through an examination of the Elements of Art and Principles of Design. Each project will focus on at least 2 of the elements and principles and how they work together to create a successful artwork. The class will build a foundation throughout the semester in color, line, value, perspective, and composition, leading into Art II. The class will complete projects in various media, including Collage, Watercolor, pen and ink, pastel, and pencil. Students will also be introduced to Shape vs. Form, producing at least 1 three-dimensional piece. This will provide a strong foundation for students who wish to enroll in advanced art classes. All projects will be infused with art history.

#### Art II (1 semester, ½ credit)

#### Prerequisite: Art I or Department Approval

This course will continue building on the elements and principles through a variety of two-dimensional projects. Projects will be designed to help develop drawing skills using pencil, colored pencil, marker, pen and ink and charcoal. Projects may include still life studies, landscapes and beginning portraiture. Students will progress into a basic painting unit and color theory. Students will be introduced to painting techniques in both acrylic and watercolor. This course is designed to lead into Art III.

#### Ceramics (1 semester, ½ credit)

This course is a foundation course in ceramics designed to introduce students to basic techniques in functional and sculptural design. The course will familiarize students with basic forms (slab, coil and wheel thrown methods), surfaces, and firing of ceramics. There will be a \$40 lab fee to cover the cost of clay and glazes.

#### Art III (1 semester, ½ credit)

#### Prerequisite: Art II or Department Approval

This course will offer advanced lessons in drawing and painting, building off of the skills taught in Art II. The course objectives will concentrate on more advanced subjects and movements such as figure drawing and portraiture. The projects will allow the opportunity to work in charcoal, pen and ink, pencil, colored pencil and marker. Course objectives will also include projects in acrylic and watercolor. Throughout this course, students will be given more creative freedom for medium choice as well as subject matters. We will work on students developing their personal style and artistic voice. This course will serve as a precursor for acceptance into AP Studio Art.

### AP Art Studio (1 credit)

#### Prerequisite: Art III and Department Approval

The AP Art and Design program consists of three different courses and AP Portfolio Exams—AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing—corresponding to college and university foundation courses. Students may choose to submit any or all of the AP Portfolio Exams. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions.

#### Video Production (1 semester, ½ credit)

In this course, students will learn the process of filmmaking, encompassing elements of script writing, storyboards, directing, cinematography, and lighting. They will also learn the basics of photography, camera functions, video editing, and media analysis. Students will be introduced to Apple's Final Cut Pro software on one of our three Mac student workstations for all video production projects.

#### Audio Production/Engineering I (1 semester, ½ credit)

Introduces the field of audio production for film, live sound, and recording. In this course students will learn and practice techniques for recording, editing, and mixing in, both a recording setting and live environment. Students will work with the following software on their laptop computers: Reaper (for digital audio recording and editing) on their school assigned laptops.

#### Audio Production/Engineering II (1 semester, ½ credit)

#### Prerequisite: Audio Production/Engineering I and Departmental Approval

Introduces the field of audio production for film, live sound, and recording. In this course students will learn and practice techniques for recording, editing, and mixing in, both a recording setting and live environment. Students will work with the following software applications on their laptop computers: Reaper (audio recording and editing) and Audacity (Waveform editing). Students will be introduced to Apple's Logic Pro X software on one of our three Mac student workstations.

#### Graphic Design and Illustration (1 semester, ½ credit)

This introductory course deals with controlling computer technology to produce an artistic image. Students will learn computer illustration techniques, image manipulation, and the principles and elements of art in composition. Students will explore careers in the Graphic Design field. Projects may include logo design, advertisements, digital illustration, typography, and photo editing.

# IDED 160 Media I (3 college credits, 1 SJCP credit) Mount St. Mary's University – Frederick Campus - offered through the part time program for select seniors.

#### Prerequisite: Seniors with required GPA

In this course, candidates are introduced to principles of design and the role of multimedia in learning. Candidates identify the uses of multimedia and survey available technology and software to develop media projects that address a variety of instructional needs. This is weighted as an honors course.

#### Publication and Journalism (1 semester or 2, ½ credit each semester) \*

This course is designed to help the students achieve proficiency in the art of producing a yearbook. Each student must request admission to the class and acceptance is established by the teacher. Each year, the yearbook is produced online. Skills taught and reinforced include organization, time management, editing, photography, writing, design, attention to detail, delegating, and teamwork. Once yearbook deadlines are met, the class will focus on responsible reporting, investigative skills, and journalistic writing techniques as they read, respond to, and write their own news and feature articles.

#### Percussion Ensemble I-II (1 semester, ½ credit)

Students will learn to read and play percussion music through guided practice and repetition. They will explore the realm of percussion instruments through the study of various techniques, such as African, Indian, and Middle Eastern hand drumming. Through exercises and musical examples provided by the instructor, the students will be able to perform rhythmic patterns as solo and group performances. The

students will learn basic music theory through their percussion studies and be able to articulate findings using musical terms in their journal writings. Percussion I is a prerequisite to Percussion II.

#### Piano I-II (1 semester, ½ credit)

Students will learn to read and play piano music through guided practice and repetition. They will explore the classical piano genre through exercises and musical examples provided by the instructor. The students will learn basic music theory through their studies and be able to articulate findings using musical terms in their journal writings. Piano II is a continuation of Piano I. Piano I is a prerequisite to Piano II.

#### Beginning Guitar (1 semester, ½ credit)

Students will explore guitar technique and musical performance. The class is non-auditioned and all are welcome. Enjoyment of the instrument and excitement in playing is the goal of this course. Sight reading, learning notes, and timing will be stressed. Projects including performance in guitar will be required. Performance opportunities will be available year-round for the students.

#### Intermediate Guitar (1 semester, ½ credit)

#### Prerequisite: Department Approval

Students must have rudimentary technique of the instrument and be able to sight read notes or tablature. This course develops the technical and interpretative skills of the students, which will enable them to proceed to more advanced works of music. These students will have juries and be expected to perform at a Saint John's school performance.

#### Advanced Guitar (1 semester, ½ credit)

#### Prerequisite: Department Approval

Blues, rock, Celtic and classical music will be available for the students. Improving technique and learning a large repertoire of music will be stressed. Chordal theory will be studied and used to create music. Sight reading either the notes or tabulation is required. These students will be expected to perform. Juries will be held for a grade in this class.

#### **Mathematics**

Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
8 <sup>th</sup> Grade Math (Pre-Algebra) Algebra 1 Geometry	Algebra 1A Algebra 1 Geometry Geometry Honors Algebra 2 Algebra 2 Honors	Algebra 1B Geometry Geometry Honors Algebra 2 Algebra 2 Honors Precalculus Honors AP Pre-Calculus	Geometry Algebra 2 Algebra 2 Honors Advanced Algebra AP Precalculus Precalculus Honors AP Calculus AB	Algebra 2 Advanced Algebra AP Precalculus Precalculus Honors AP Calculus AB AP Calculus BC Probability & Statistics Honors AP Statistics

Algebra 1A (1 credit) \*

# Prerequisites: Successful completion of an 8<sup>th</sup> grade math course and Department Approval

The first course in a two-year progression of a standard Algebra 1 course. This year-long course covers the concepts that are typically seen in the first half of Algebra 1. Students will review real number computation and working with algebraic expressions and then focus on reaching mastery of linear functions, including solving equations and inequalities, graphing functions, and working with systems. *A four-function calculator is required*.

### Algebra 1B (1 credit) \*

#### Prerequisites: Successful completion of Algebra 1A and Department Approval

The second course in a two-year progression of a standard Algebra 1 course. This year-long course covers the concepts that are typically seen in the second half of Algebra 1. Students will review and extend major linear function concepts from Algebra 1A and then focus on reaching mastery of quadratic functions, including computing with and factoring polynomial expressions, solving equations, and graphing functions. *A graphing calculator is required.* 

#### Algebra 1 (1 credit) \*

# Prerequisites: Successful completion of an 8<sup>th</sup> grade math course and Department Approval

A course that covers introductory algebraic concepts. Students will focus on gaining mastery of linear and quadratic functions, including solving linear/quadratic equations and linear inequalities, working with linear systems, understanding relations and functions, working with exponents and radicals, computing with and factoring polynomial expressions, and graphing linear/quadratic functions and linear inequalities. *A graphing calculator is required.* 

#### Geometry/Geometry Honors (1 credit) \*

# Prerequisites: Successful completion of Algebra 1 or Algebra 1A & 1B and/or Department Approval

Students will cover basic geometric concepts, including transformations, triangles, proofs, polygons, special quadrilaterals, right triangle trigonometry, area, volume, and circles, as well as develop logic and reasoning skills. There will be an emphasis on making algebraic connections with geometric concepts. *A graphing calculator is required.* 

#### Algebra 2/Algebra 2 Honors (1 credit) \*

# Prerequisites: Successful completion of Algebra 1 and Geometry and/or Department Approval

A continuation of the study of algebraic concepts. Students will focus on analyzing a variety of functions and solving a variety of equations, including absolute value, piecewise, polynomial, rational, and exponential, and gaining a basic understanding of logarithms. *A graphing calculator is required.* 

#### Advanced Algebra with Trigonometry (1 credit) \*

#### Prerequisites: Successful completion of Algebra 2 and Department Approval

A continuation of algebraic concepts and an introduction to trigonometric concepts. Students will review the analysis of linear, quadratic, polynomial, rational, and exponential functions from Algebra 2 and explore logarithmic functions before learning about angles and basic trigonometry. *A graphing calculator is required*.

#### Probability & Statistics Honors (1 credit) \*

#### Prerequisites: Successful completion of Algebra 2 and Department Approval

Prepares students to take a future college-level Statistics course. This course is open to seniors as their core math course or to juniors as an elective math course. Topics include data analysis, counting techniques and probability, sampling and experimental design, and statistical inference, and applications of these concepts. *A graphing calculator is required.* 

#### Precalculus Honors (1 credit) \*

#### Prerequisites: Grade of A or B in Algebra 2 and Department Approval

Prepares students to take a future Calculus course. Students will focus on reviewing polynomial, rational and exponential functions, analyzing logarithmic functions, and gaining mastery of major trigonometric concepts, including the unit circle, trigonometric functions, and trigonometric expressions and equations. *A graphing calculator is required.* 

#### Advanced Placement Precalculus (1 credit) \*

#### Prerequisites: Grade of A in Algebra 2 Honors and/or Department Approval

Prepares students to take a future Calculus course and provides an opportunity for college-level mathematics credit. This course follows the suggested units of study provided by the College

Board with topics including polynomial, rational, exponential, logarithmic, trigonometric, and polar functions. Students enrolled in this course must sit for the AP exam in May. *A graphing calculator is required.* 

#### Advanced Placement Calculus AB (1 credit) \*

# Prerequisites: Grade of A or B in Pre-Calculus Honors/AP Pre-Calculus and/or Department Approval

Equivalent to a college-level Calculus I course. This course follows the suggested units of study provided by the College Board with topics including differential and integral calculus and their applications. Students enrolled in this course must sit for the AP exam in May. *A graphing calculator is required.* 

#### Advanced Placement Calculus BC (1 credit) \*

Prerequisites: Successful completion of AP Calculus AB and Department Approval
Equivalent to both a college-level Calculus I & Calculus II course. This course follows the
suggested units of study provided by College Board with topics including differential and integral
calculus and their applications, application of calculus ideas to parametric and polar functions,
and the analysis of infinite series. Students will be expected to recall all concepts from AP
Calculus AB in order to be successful in this course. Students enrolled in this course must sit
for the AP exam in May. A graphing calculator is required.

#### Advanced Placement Statistics (1 credit) \*

Prerequisites: Successful completion of Algebra 2 Honors and Department Approval AP Statistics is equivalent to a college-level introductory Statistics course. This course follows the suggested units of study provided by the College Board with topics including exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students enrolled in this course must sit for the AP exam in May. A graphing calculator is required.

#### Introduction to Personal Finance (1 semester, ½ credit)

A graduation requirement for all students that is typically taken during junior or senior year. It cannot be taken as a core math credit. This course is an introduction to bank accounts, credit, investments, loans, and budgets. Students will focus on managing money and making sound financial decisions.

### **Physical Education**

#### Physical Education 9 (1 semester, ½ credit)

Physical education is an integral part of a student's total educational program. The physical education curriculum provides a planned sequence of learning experiences in which human movement concentrates on the individual's maximum physical potential and the related social, emotional, and intellectual growth. The Health Education program is an integrated part of the Physical Education course of study.

#### Health 9 (1 semester, ½ credit)

Health Education provides students with an awareness of health standards for living including bodily functions and develops a conscious awareness of contemporary problems which affect general health and well being. The Physical Education program is an integrated part of the Health course of study.

#### Team Sports: (1 semester, ½ credit)

This elective course provides students and athletes with the opportunity to develop skills in a variety of sport activities and to build foundations for a quality lifestyle.

#### Weight Training (1 semester, ½ credit)

This elective course provides students with the opportunity to improve muscle strength and weight control while gaining an understanding essential to developing a basic weight training program.

#### Sciences

Grade	9	10	11	12
Required	Biology Biology Honors	Chemistry Chemistry Honors	Physics Physics Honors	
Electives		Intro to Sports Medicine Nutrition Science	AP Biology AP Chemistry AP Physics AP Environmental Science Intro to Sports Medicine Nutrition Science	AP Physics I AP Biology AP Chemistry AP Environmental Science Intro to Sports Medicine Nutrition Science

#### Biology/Biology Honors (1 credit) \*

#### Prerequisite: Successful completion of 8th grade Science and Department Approval

This course covers life from the molecular level of the cell through the human organism. In addition to cell biology, topics studied include cellular respiration, genetics and protein synthesis, evolution, and the Kingdoms Plantae and Animalia. Lab work is stressed.

#### Chemistry/Chemistry Honors (1 credit) \*

Prerequisite: Algebra 1

Honors: Algebra 1 and Department Approval

Chemistry is the study of the properties and the behavior of matter. In this course, laboratory experiences are integrated into the material. Topics covered include: atomic structure, interactions between atoms and molecules, chemical quantities, chemical reactions, solution chemistry, and acid-base chemistry.

#### Physics/Physics Honors (1 credit) \*

Prerequisites: Chemistry, Geometry, Algebra 2 (concurrent)

Honors prerequisite: Chemistry, Algebra 2, Pre-Calculus (concurrent), and Department Approval Students study the principles and laws governing the behavior of the inanimate world around us. Knowledge is gained through experimentation, reasoning, and mathematical analysis. The course will cover the concepts and mathematics behind the natural laws which explain the behavior of forces, motion, work, energy, electricity, light, sound, and modern physics. Development of appropriate lab, computer, and calculating abilities will be an integral part of the course. Recommended for all students anticipating a career in science, engineering, or science related areas.

### Advanced Placement Physics I (1 credit) \*

#### Prerequisites: Physics, Pre-Calculus, and Department Approval

This course is a 2<sup>nd</sup> year physics course intended for students with an interest in engineering or science. Strong emphasis is placed on inquiry-based learning and solving a variety of challenging problems. The subject matter is principally classical mechanics; equivalent to a first-semester college physics course. This course can lead to the opportunity to pursue and receive credit for college level work by successfully taking the advanced placement exam in physics at the end of the course. Students enrolled in this course must sit for the AP exam in May.

#### Advanced Placement Biology (1 credit) \*

#### Prerequisites: Biology, Chemistry (concurrent), and Department Approval.

The AP Biology course is a national program that gives high school students the opportunity to experience a college level course and to take the AP exam for college credit. General course topics include chemistry of life, cell, cellular energetics, heredity and evolution, organisms, populations, and ecology. The course will examine chemical processes essential to life, structure and functions of organisms, causes of adaptations. This course will teach students how to identify relationships and apply concepts rather than simply memorize facts. The format for AP Biology is lecture and laboratory. Students enrolled in this course must sit for the AP exam in May.

#### Advanced Placement Chemistry (1 credit) \*

#### Prerequisites: Chemistry, Pre-Calculus (concurrent) and Department Approval

AP Chemistry is designed to be the equivalent of the general Chemistry course usually taken during the first year of college. Successful completion of the AP examination at year's end may allow students either to undertake second year Chemistry courses in the freshman year or to fulfill lab science requirements and free time for other courses. General topics include evidence for the existence of atoms, chemical bonding, nuclear chemistry, gases and gas laws, solutions, reaction types, stoichiometry, equilibrium, reaction kinetics and thermodynamics. The course will include both lecture and a laboratory program which will expect the student to think analytically and reduce problems to identifiable, answerable questions. Students enrolled in this course must sit for the AP exam in May.

#### Advanced Placement Environmental Science (1 credit) \*

#### Prerequisites: Biology, Chemistry (concurrent) and Department Approval

AP Environmental Science is divided into two parts. The first part examines how nature operates through the creation and recycling of various substances and the interrelationships of various species of plants and animals. The second part of the course is the effect that humans have on their environment. The topics covered include carbon and nitrogen cycles, food chains, sources of pollution and the fate of pollutants in the environment, population and resource management and dynamics, waste management and recycling, water resources and pollution as well as climate change and ozone depletion. The course will have a lab component, and many important topics will be debated in team format. Students enrolled in this course must sit for the AP exam in May.

#### Nutrition Science (1 semester, ½ credit)

#### Prerequisites: Biology

This course is the study of the nutrients in foods and how the body handles each of these nutrients. Mendel defined nutrition science as "the chemistry of life", where the process by which food components are digested, converted, and utilized is analyzed and understood chemically for better life management. Students who apply what they learn about food and its effects on their bodies may develop a healthier lifestyle and an improved future.

#### Introduction to Sports Medicine (1 semester, ½ credit)

#### Prerequisites: Biology

This course is to provide students with an overview of the fields of anatomy, physiology, and sports medicine. This course will breakdown various regions of the body on vascular, muscular, and skeletal levels. A variety of teaching methods will be utilized, and the coursework will cover basic anatomy, physiology, nutrition, evaluation of injuries, and professional preparation.

#### **Social Studies**

Grade	9	10	11	12
Required	World History World History Honors	US History US History Honors	US Government and Politics AP United States Government and Politics	
Electives		AP United States Government and Politics AP World History	Independent Research Seminar AP U.S. History AP United States Government and Politics AP Macroeconomics AP Psychology AP World History	AP U.S. History AP United States Government and Politics AP Macroeconomics AP Psychology AP World History Independent Research Seminar CJUST 110 Intro to Criminal Justice BUS 250 Intro to Business and Decision Making

#### Modern World History/Modern World History Honors (1 credit) \*

This course surveys a wide range of history beginning with the empires of Africa, feudal Europe and Eurasia during the High Middle Ages through to the Cold War and the global economy. Special emphasis focuses on major cultural traditions, historical forces, and dynamic turning points that have affected the human condition from the emergence of the modern state through the scientific revolution, age of enlightenment and exploration, industrialization, and globalization. Modern World History introduces students to the study of original source documents. Students use a textbook as well as source writings and non-written material to begin to develop a direct understanding of the way historians interpret and analyze evidence. Analytical writing assignments begin to develop the skills necessary to complete a well-documented essay by the end of the year.

#### **Honors:**

#### Prerequisite: Department Approval

Honors Modern World History is an enriched and accelerated instructional environment designed to prepare students to take honors level history classes. In addition to the period surveyed in other Modern World History sections, the Modern World History honors sections accelerate coverage of material to permit the introduction of historiography. Students participate in more far-ranging discussions that involve a wider selection of readings. Honors-level writing assignments develop the ability to write well-documented essays more frequently.

#### U.S. History/U.S. History Honors (1 credit) \*

A survey of United States political, social, and economic history from 1300 to the present. Major topics of study include Native Americans, the American Revolution, Jeffersonian America, Progressive Era, World War I, the Great Depression/New Deal, World War II, the Cold War, and the Civil Rights Movement.

Special attention is given to the skills of critical analysis of primary source material, contextualizing complex historical events, and synthesizing findings into a variety of projects and outcomes.

#### Honors:

#### Prerequisite: Department Approval

Honors U.S. History is an enriched and accelerated instructional environment designed to prepare students to take AP level history classes. The honors students accelerate coverage of material to permit for an in-depth research paper on U.S. history using primary sources. Students participate in far-ranging discussions that involve a wider selection of readings. Honors-level projects develop the ability to write well-documented essays and creatively demonstrate master of key concepts.

#### U.S. Government and Politics (1 credit) \*

#### Prerequisite: Department Approval

A course that will conduct an in-depth analysis on the overall structure of American government from its inception in 1781 to present day. The course will focus on the three main bodies of government as well as critique the rolls and checks and balances that each possess. The Question as to whether America remains a true Popular Will democracy will be answered, and students will engage in numerous exercises to examine the validity of this democracy. Has America truly benefited from the roles that democracy has set forth, or, as the quote explains, has it only created a government of achievements that has been less than appealing?

#### Advanced Placement U.S. History (1 credit) \*

#### Prerequisite: Department Approval

In AP U.S. History, students investigate significant events, individuals, developments, and processes from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. Students enrolled in this course must sit for the AP exam in May.

#### Advanced Placement United States Government and Politics (1 credit) \* Prerequisite: Department Approval

AP United States Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project. Students enrolled in this course must sit for the AP exam in May.

#### Advanced Placement Macroeconomics (1 credit) Juniors and Seniors \* Prerequisite: Department Approval

Intensive in both reading and logical thinking skills, this AP course in macroeconomics gives students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

### Advanced Placement Psychology (1 credit) Juniors and Seniors \* Prerequisite: Department Approval

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice, as well as conduct their own original research. Topics would include a history of psychology, discussion of research methods, the biological bases for behavior, perception, and consciousness, learning and abnormal behavior, among other topics. The goal would be to cover what is typically found in a university level Introduction to Psychology (Psych 101) course. Students enrolled in this course must sit for the AP exam in May.

#### Advanced Placement World History (1 credit) Sophomores, Juniors, Seniors \* Prerequisite: Department Approval

This course is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. Students enrolled in this course must sit for the AP exam in May.

# Independent Research Seminar (1 credit) Juniors and Seniors \* Prerequisite: Junior or Senior and Application

This course presents an overview of research basics needed in higher education institutions. In full year course, students will learn how to conduct research, organize their findings, and formulate a research paper pertaining to their selected topic and chosen field. The students will have guest speakers who are experts in various fields to come and discuss research and why it is an important skill to have, as well as writing and writing strategies. This course is weighted as an honors course and is available to juniors and seniors only.

# CJUST 110: Introduction to Criminal Justice (3 college credits, 1 SJCP credit) Mount St. Mary's University – Frederick Campus - offered through the part time program for select seniors. *Prerequisite: Seniors with required GPA.*

A general introduction to the three components of the American justice system: the police, the courts, and corrections. Special emphasis on the historical development, procedures, problems, and directions for reform of each component. This is weighted as an honors course.

BUS 250: Intro to Business Management and Decision Making (3 college credits, 1 SJCP credit) Mount St. Mary's University – Frederick Campus - offered through the part time program for select seniors.

#### Prerequisite: Seniors with required GPA

Course Description- An exploration into the world of contemporary business from entrepreneurship and small business development, to legal structure, finance, going global, data science, management, marketing, operations, and more. Students discover how problem solving and critical thinking are applied to decision making. This is weighted as an honors course.

### **Technology**

Introduction to Computer Science 1 and 2 - Python (1 semester, ½ credit for each course)

Prerequisites: Completion of Algebra I, Department Approval, and the use of a school PC only.

This course is designed to offer an introduction to computer science. Students will learn the basics of computer programming along with the basics of computer science. The material emphasizes computational thinking and helps develop the ability to solve complex problems. The course also covers the basic building blocks of programming along with other central elements of computer science. It gives a foundation in the tools used in computer science and prepares students for further study in computer

science, including AP Computer Science Principles and AP Computer Science A courses. This is an

#### AP Computer Science Principles (1 credit) \*

online course with faculty supervision.

Prerequisite: completion of Algebra II preferred or Intro to Computer Science, Department Approval, and the use of a school PC only.

AP Computer Science Principles (AP CSP) is a full-year, rigorous course that introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. The course covers a broad range of foundational topics including: programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. This course will prepare students for the end-of-course AP Exam. *This is an online course with faculty supervision*. Students enrolled in this course must sit for the AP exam in May.

#### AP Computer Science A (1 credit)\*

Prerequisite: completion of Algebra II preferred or Intro to Computer Science, Department Approval, and the use of a school PC only.

AP Computer Science A (Java) is a full-year, rigorous course in which students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. AP Computer Science A teaches object-oriented programming using the Java language and is meant to be the equivalent of a first semester, college-level course in computer science. It will emphasize problem solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems. This course will prepare students for the end-of-course AP Exam. *This is an online course with faculty supervision*. Students enrolled in this course must sit for the AP exam in May.

#### **Video Production (1 semester, ½ credit)**

In this course, students will learn the process of filmmaking, encompassing elements of script writing, storyboards, directing, cinematography, and lighting. They will also learn the basics of photography, camera functions, video editing, and media analysis. Students will work individually writing, shooting, and editing their own projects. Students will be introduced to Apple's Final Cut Pro software on one of our three Mac student workstations for all video production projects.

#### Audio Production/Engineering I (1 semester, ½ credit)

Introduces the field of audio production for film, live sound, and recording. In this course students will learn and practice techniques for recording, editing, and mixing in, both a recording setting and live environment. Students will work with the following software on their laptop computers: Reaper (for digital audio recording and editing) on their school assigned laptops.

#### Audio Production/Engineering II (1 semester, ½ credit)

#### Prerequisite: Audio Production/Engineering I and Departmental Approval

Introduces the field of audio production for film, live sound, and recording. In this course students will learn and practice techniques for recording, editing, and mixing in, both a recording setting and live environment. Students will work with the following software applications on their laptop computers: Reaper (audio recording and editing) and Audacity (Waveform editing). Students will be introduced to Apple's Logic Pro X software on one of our three Mac student workstations.

#### Graphic Design and Illustration (1 semester, ½ credit)

This introductory course deals with controlling computer technology to produce an artistic image. Students will learn computer illustration techniques, image manipulation and the principles and elements of art in composition. Students will explore careers in the Graphic Design field. Projects may include logo design, advertisements, digital illustration, typography, and photo editing.

#### Publication and Journalism (1 credit)

This course is designed to help the students achieve proficiency in the art of producing a yearbook. Each student must request admission to the class and acceptance is established by the teacher. Each year, the yearbook is produced online. Skills taught and reinforced include organization, time management, editing, photography, writing, design, attention to detail, delegating, and teamwork. Once yearbook deadlines are met, the class will focus on responsible reporting, investigative skills, and journalistic writing techniques as they read, respond to, and write their own news and feature articles.

# IDED 160 Media I (3 college credits, 1 SJCP credit) Mount St. Mary's University – Frederick Campus - offered through the part time program for select seniors.

Prerequisite: Seniors with required GPA

In this course, candidates are introduced to principles of design and the role of multimedia in learning. Candidates identify the uses of multimedia and survey available technology and software to develop media projects that address a variety of instructional needs. This is weighted as an honors course.

### AOPA/STEM PROGRAM (By Application and Invitation Only)

#### Aviation (Year 1) (1 semester ½ credit) Not offered in 2024-2025

This introductory semester will provide the foundation for advanced exploration in the areas of flying and unmanned aircraft systems. Students will learn about the engineering process, problem solving, and the innovations and technological developments that have made today's aviation and aerospace industries possible.

Students will look at the problem-solving processes and innovative leaps that took space exploration from the unimaginable to the common in a single generation. Students will also gain an historical perspective starting from the earliest flying machines to the wide variety of modern aircraft and the integral role they play in making today's world work.

#### Aerospace (Year 1) (1 semester ½ credit) No offered in 2024-2025.

This core aerospace and aviation semester provides the foundation for both pathways. It is designed to give students a clear understanding of career opportunities in aviation and aerospace and the critical issues affecting the aviation system.

Students will also begin to drill down into the various sectors of aviation and the parts that make up the aviation and aerospace ecosystem. They will discover how advances in aviation created a need for regulation and will learn about the promulgation of civil aviation oversight.

Students will explore modern day innovations and will develop their own innovative ideas to address real-world challenges facing the aviation industry. They will be exposed to a variety of career options in aviation and aerospace and take an in-depth look at the opportunities available. For schools offering both pathways, this course will allow students to begin to define their individual interests.

#### Introduction to Flight (Year 2) (1 semester ½ credit) Offered in 2024-2025

In the Introduction to Flight semester, students pursuing the pilot and UAS tracks will take a closer look at the aircraft they may one day operate. Students will begin with an exploration of the types of aircraft in use today before going on to learn how aircraft are made and how they fly. Students will understand how aircraft are categorized, be able to identify their parts, and learn about aircraft construction techniques and materials. They will gain an in-depth understanding of the forces of flight—lift, weight, thrust, and drag—including how to make key calculations. They will then touch on aircraft design, looking at stability, aircraft controls, and maneuvering flight. The course will conclude with a focus on career skills related to these topics

#### Aircraft Systems and Performance (Year 2) (1 semester ½ credit) Offered in 2024-2025

In the Aircraft Systems and Performance semester, students in the pilot and UAS tracks will take an indepth look at the systems that make manned and unmanned aircraft work. Beginning with aircraft propulsion, students will learn about the different types of engines that produce thrust to propel an aircraft or UAS. They will go on to explore other key aircraft systems, including fuel, electrical, landing gear, and environmental. In order to fly an aircraft safely, students must also learn about the flight instruments associated with each system and how to identify and troubleshoot common problems. This unit also covers airplane flight manuals, the pilots operating handbook, and required aircraft documents. Finally, students will learn about the factors that affect aircraft performance and how to determine critical operating data for aircraft.

#### The Flying Environment (Year 3) (1 semester ½ credit) Not Offered in 2024-2025

This semester is foundational for both manned and unmanned aviation, and will prepare students to take either of two Federal Aviation Administration tests: the Private Pilot Knowledge Test or the Part 107 Remote Pilot Knowledge Test. Topics include: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures.

#### UAS Pathway (Year 3) (1 semester ½ credit) Not Offered in 2024-2025

This semester will cover small unmanned aircraft performance, ethics, human factors, aeronautical decision-making and judgment, safety protocols, weight and balance, maintenance, aviation weather sources and effects of weather (micro-meteorology) on small unmanned aircraft performance, small unmanned aircraft loading and performance, emergency procedures, crew resource management, and preflight inspection procedures. Students will be provided with the opportunity to participate in multiple practice examinations. Students will be prepared to complete the Federal Aviation Administration's Part 107 Remote Pilot Knowledge Test upon completion of this course.

A World of UAS (Year 4) (1 semester ½ credit) Offered in 2024-2025 if schedule can be arranged In this semester, students will examine advanced aviation topics and aviation career options. Instrument flight, commercial aviation, and advanced aircraft systems begin the semester. Looking into the future, students then explore new horizons in the aerospace industry. What might aviation look like five, ten, or twenty years into the future? Students will explore business development opportunities in aviation. Finally, students learn about and conduct different types of research and complete a proposal for their capstone project in the second semester.

# UAS Pathway - The Capstone Experience (Year 4) (1 semester ½ credit) Offered in 2024-2025 if schedule can be arranged

The Pilot capstone semester is the culmination of the student's learning experience throughout this pathway. The students will work as individuals or in small groups to study and report on an approved aviation topic of their choosing. The goal of this capstone course is to allow students to demonstrate an understanding of a contemporary topic in aviation as it relates to flying. The curriculum will include suggestions for research topics or projects that can be adapted to match available resources.

# Theology

Grade	9	10	11	12
Required	Theology I	Theology II	Theology III	Electives
Electives				World Religions (Seniors) Life Paths in the 21st Century (Seniors) Into to Philosophy (Seniors) Faith and Science (Seniors) Faith In Action (Seniors)

#### Theology I (1 credit)

A required course for freshman. The goal for freshmen in Theology I is to describe the setting and content of the Hebrew Scriptures (Old Testament) and then to explain their meaning. Students will comprehend two levels of meaning: first, what the inspired authors intended to convey to the people of their time, and second, what the Scriptures mean for us today, with emphasis on moral behavior and the fruits of violence. The second part of the course, prayer, and liturgy, focuses on people's relationships with God today. The theme of the entire course is "The living God gathers a people to himself."

#### Theology II (1 credit)

A required course for all 10th graders. This course provides sophomores a scholarly introduction to the Christian Scriptures (New Testament). The life, message, and significance of Jesus the Christ are explored through a critical reading of the four Gospels, the Acts of the Apostles, the Epistles, and Revelation. Specific areas of study include sin and redemption, Jesus as Son of God, Son of Mary; the teachings and miracles of Jesus; discipleship; the Last Supper and the Eucharist; the Passion, Death, and Resurrection; Pentecost and the mission of the Church, Christian leadership, and the moral and spiritual values of the early Church. Extended reading from the Christian Scriptures is foundational to this course.

#### Theology III (1 credit)

This one-year course introduces the student to Catholic morality and social teachings. The student will learn in the first semester the core elements applicable to moral decision making. This includes the teachings of Jesus Christ and the Church, the formation and use of conscience, the nature of sin, virtues and vices, and the process of decision making. The second semester will deal with morality in a social context. The student will learn the doctrines of Catholic social teachings and how they are applied in the world. The principles of morality will be applied to the social issues of our time. Students will examine and question institutions, programs, governments, and Church teachings regarding issues of injustice, oppression, marginalization and the pursuit of the common good for us, communities, state, country and planet.

Intro to Philosophy (1 semester, ½ credit) Seniors Only

This introductory course in philosophy provides students with a comprehensive overview of the fundamental concepts, themes, and methods in the field of philosophy. Philosophy, often described as the "love of wisdom," is a discipline that explores fundamental questions about reality, knowledge, ethics, and the nature of existence. Through the examination of major philosophical traditions and influential thinkers, students will develop critical thinking skills, gain a deeper understanding of the human experience, and engage in thoughtful discussions about some of the most profound questions that have intrigued humanity for centuries.

#### World Religions (1 semester, ½ credit) Seniors Only

This one semester course for seniors is a survey, analysis, and comparative study of the major World Religions. Objective is to enable students to distinguish one religion from another and to identify common beliefs between other faiths and Christianity.

#### Life Paths in the 21st Century (1 semester, ½ credit) Seniors Only

In this course we will be looking at the changes that are quickly coming to you as a junior or senior in high school. What will you do in the next few years? Who will you become? As you go through your life what is your calling? What choices will you make when it comes to your future, when it comes to choosing a vocation? These are some of the many questions that will be discussed. Your many options for living a full life will be studied. Your future is wide open – and God has great things planned for you!

#### Faith and Science (1 semester, ½ credit) Seniors Only

The world today does not have options for those of faith to ignore or have a very shallow understanding of the relationship between having faith and scientific knowledge. About 70% of young adults view science and faith as conflicting with each other. The course will show that science and faith are compatible with each other. The course will try to answer the questions generated by both disciplines, just because we can, should we? This course is for those seeking a greater understanding of the relationship between science and the Catholic faith.

#### Faith In Action (1 semester, ½ credit) Senior Internship

Prerequisite: Any senior wishing to enroll in Faith in Action, must have his/her 80 hours of community service completed and verified by the end of junior year prior to starting Faith in Action.

This is an approved internship in which a <u>senior</u> can obtain Theology credit. In the internship the student will be able to put what they learned about their faith over the last three years into action to help spread the teachings of Jesus Christ and build up their faith and the faith of others in their parish communities. Examples would be assisting in teaching Confirmation classes, assisting in Youth Ministry courses, aiding in catechesis classes K-6 grades. Other activities could include but not limited to doing work for the St. Vincent de Paul Society, Catholic Charities, and Food Banks. All internships need to be preapproved and a final assessment will need to be completed to obtain credit.

### **World Languages**

Grade 9	Grade 10	Grade 11	Grade 12
French 1 Spanish 1 *Students with prior language credits can test to place into the 2nd year of language.	French 2 Spanish 2	French 3 French 3 Honors Spanish 3 Spanish 3 Honors	French 4 Honors AP French Spanish 4 Honors AP Spanish

#### French 1 (1 credit) \*

This year-long course aims to develop the fundamental skills of listening, speaking, and an appreciation of the culture(s) of the people(s) who speak French, along with the skills of reading and writing. Students are immersed in authentic communicative activities. Extensive additional materials are used to enrich and enhance the learning process, including videos, CD's, visuals, games, songs, and Internet activities. Students are exposed to various aspects of the French-speaking world and are active participants in the learning process through paired and group activities.

#### French 2 (1 credit) \*

#### Prerequisite: Successful completion of French 1

This course will continue to develop the four language skills; building on the foundation acquired in French 1. Emphasis is placed on communication skills, focusing on producing and interpreting oral and written communication. Students will be expected to communicate clearly in writing, in an appropriate and accurate manner. Culturally authentic readings and videos are used to increase students' global awareness, enhance students' language capabilities, and serve as a basis for discussion. Role-playing and other communicative activities will enable students to practice the target language in a variety of situations.

#### French 3 (1 credit) \*

#### Prerequisite: Successful completion of French 2

This course refines the competence acquired in previous courses and emphasizes communication in French. Grammatical structures previously learned are reinforced, and more complex structures and expressions are introduced. Intermediate reading texts, simple poetry, short stories, Internet materials, films, and other authentic materials are used to refine the student's reading ability. Opportunities, such as blogs and podcasts, are provided for students to strengthen their spoken and written abilities.

#### French 3 Honors (1 credit) \*

#### Prerequisite: Completion of French 2 with a final grade of 85+ and/or Department Approval

The focus of the course is to provide students with the skills they need to create language for communication. The students continue their study of French from the introduction of new material, through reinforcement, evaluation and review, presentations, exercises, and activities, all of which are designed to improve student expertise across the three modes of communication (interpersonal, interpretive, and presentational). The French 3 Honors course explores more deeply the nuances of the language, instills in the students an awareness of a powerful culture, discusses economic and

political topics, makes a historical connection with the world, offers and analyzes selections from various literary periods and movements related to them, and encourages the students to use their critical thinking skills to make inferences and organize their learning into a coherent "big picture" of today's world. This course is designed to meet the needs of students who are interested in the advanced study of French grammar, conversation, literature, history, and culture. Assessments in this class include Integrated Performance Assessment (IPA) methods, in addition to traditional ones.

#### French 4 Honors (1 credit) \*

# Prerequisite: Completion of French 3 or French 3 Honors with a final grade of 85+ and Department Approval

French IV Honors is a college prep course for students in their fourth year of study of French. All the themes that will be covered throughout the year will incorporate the 3 modes of communication - Interpersonal, Interpretive and Presentational, which are defined in the Standards for Foreign Language Learning in the 21st Century. Students who enroll in this course should have a foundation of the workings of French language, including its grammar, with intermediate-mid competence in listening, reading, writing, and speaking which are defined in the ACTFL Standards for French. Students will use *Thèmes* textbook along with other authentic materials and resources to enhance language acquisition and cultural learning. Students will do extensive research assignments using current and relevant resources online.

#### Advanced Placement French (1 credit) \*

Prerequisite: Completion of French 3 Honors with a final grade of 85+ and Department Approval Students who enroll in the Advanced Placement Program in French Language should already have a good command of French grammar and vocabulary and have competence in listening, reading, speaking, and writing, although these qualifications may be attained in a variety of ways, it is assumed that most students will be in the final stages of their secondary school training, and will have substantial course work in the language. This is an advanced level course with major emphasis upon spoken language, the extension of literary and cultural experiences, and reading for comprehension. It also includes a thorough review of the essentials of French grammar. It requires considerable self-discipline. Students enrolled in this course must sit for the AP exam in May.

#### Spanish 1 (1 credit) \*

This course is intended to introduce students to functional basic Spanish and the culture(s) of the people(s) who speak Spanish. It aims to develop the skills of listening, speaking, reading and writing. The present and preterit tenses are covered.

#### Spanish 2 (1 credit) \*

#### Prerequisite: Successful completion of Spanish 1

This course begins with a review of the highlights of Spanish I. It continues the development of the four language skills with a variety of oral and printed material. The preterit, past tense, and the direct and indirect object are covered.

#### Spanish 3 (1 credit) \*

#### Prerequisite: Successful completion of Spanish 2

In this course, the world language skills are further developed and refined. Skills will involve active use of the language in conversation and written practice. All tenses covered in the first two years are reviewed and the future, subjunctive and verbal presentation are introduced.

#### Spanish 3 Honors (1 credit) \*

#### Prerequisite: Completion of Spanish 2 with a grade of 85+ and Department Approval

In this course the world language skills are further developed and refined. Skills will involve active use of the language in conversation, listening comprehension, reading comprehension, and written practice. All tenses covered in the first two years are reviewed and the imperatives are introduced. This course will include the study of the subjunctive and an introduction to literature in the target language and increased instruction in the target language.

#### Spanish 4 Honors (1 credit) \*

#### Prerequisite: Completion of Spanish 3 with a grade of 85+ and Department Approval

This honors level course is designed to address the needs of students who seek an alternative fourth level of Spanish study. The curriculum will include conversational components, lectures, readings, long written assignments, and oral presentations in the target language. The course will encompass Spanish history from the Middle Ages through the modern era, and will include historical and cultural elements. It will include a primary text, as well as ancillary materials such as videos, music, periodicals, and literature in the target language. In addition, examples of Spanish and Latin American art will be integrated into the curriculum. The course will be designed to cover multiple disciplines while fulfilling the need for world language instruction. Students will be expected to read, comprehend, and comment on readings in the textbook and ancillary readings from various newspapers, magazines, and literature. Literature will include prose and poetry from the Middle Ages through the modern era, and will include both peninsular and Latin American sources and authors. Students will be expected to take quizzes and tests in the target language, and all writing assignments will also be completed in the target language. Students will give one oral report for each semester period, which will be weighted as a test grade, in addition to tests and quizzes.

#### Advanced Placement Spanish (1 credit) \*

# Prerequisite: Successful completion of Spanish 3 Honors with a grade of 85+ and Department Approval

Students who enroll in the Advanced Placement Program in Spanish language should already have a good command of Spanish grammar and vocabulary and have competence in listening, reading, speaking, and writing. The course is intended to be the equivalent of a third year college course in advanced Spanish composition and conversation emphasizing the use of Spanish for active communication. The course objectives are to comprehend formal and informal spoken Spanish, to acquire vocabulary and structure, to allow easy, accurate reading of newspapers, magazines, and literature in Spanish, to compose expository passages, and to express ideas orally with accuracy and fluency. Students enrolled in this course must sit for the AP exam in May.